

รายการอ้างอิง

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ภาคผนวก

ภาคผนวก ก

ไฟล์ маниเฟสที่ได้จากการสร้างของเครื่องมือจากกรณีทดสอบ

ในภาคผนวกนี้แสดงไฟล์ маниเฟสที่ได้จากการสร้างของเครื่องมือสำหรับการแปลงโปรแกรมบทเรียนแบบสทิตให้อยู่ในข้อกำหนดสกออร์มโดยอัตโนมัติที่จากการทดสอบด้วยกรณีทดสอบ 3 กรณี รายละเอียดสามารถแสดงได้ดังนี้

ก.1 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 1

```
<?xml version="1.0" encoding="UTF-8"?>
<manifest identifier="CHULA_MANIFEST_52BD29F0AF44DB74A64D8998"
xmlns="http://www.imsproject.org/xsd/imscp_rootv1p1p2"
xmlns:imsmd="http://www.imsglobal.org/xsd/imsmd_rootv1p2p1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:adlcp="http://www.adlnet.org/xsd/adlcp_rootv1p2"
xsi:schemaLocation="http://www.imsproject.org/xsd/imscp_rootv1p1p2 imscp_rootv1p1p2.xsd
http://www.imsglobal.org/xsd/imsmd_rootv1p2p1 imsmd_rootv1p2p1.xsd
http://www.adlnet.org/xsd/adlcp_rootv1p2 adlcp_rootv1p2.xsd">
<metadata>
<schema>ADL SCORM</schema>
<schemaversion>1.2</schemaversion>
</metadata>
<organizations default="CHULA_ORG_52BD29F0AF44DB74A64D8998">
<organization identifier="CHULA_ORG_52BD29F0AF44DB74A64D8998" structure="hierarchical">
<title>Organization</title>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_0"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_0" isvisible="true">
<title>Item0</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_1"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_1" isvisible="true">
<title>Item1</title>
</item>
```

รูปที่ ก.1 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 1

```
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_2"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_2" isvisible="true">
  <title>Item2</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_3"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_3" isvisible="true">
  <title>Item3</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_4"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_4" isvisible="true">
  <title>Item4</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_5"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_5" isvisible="true">
  <title>Item5</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_6"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_6" isvisible="true">
  <title>Item6</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_7"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_7" isvisible="true">
  <title>Item7</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_8"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_8" isvisible="true">
  <title>Item8</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_9"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_9" isvisible="true">
  <title>Item9</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_10"
```

```

identfierref="CHULA_RES_52BD29F0AF44DB74A64D8998_10" isvisible="true">
  <title>Item10</title>
</item>
  <item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_11"
identfierref="CHULA_RES_52BD29F0AF44DB74A64D8998_11" isvisible="true">
  <title>Item11</title>
</item>
  <item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_12"
identfierref="CHULA_RES_52BD29F0AF44DB74A64D8998_12" isvisible="true">
  <title>Item12</title>
</item>
  <item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_13"
identfierref="CHULA_RES_52BD29F0AF44DB74A64D8998_13" isvisible="true">
  <title>Item13</title>
</item>
  <item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_14"
identfierref="CHULA_RES_52BD29F0AF44DB74A64D8998_14" isvisible="true">
  <title>Item14</title>
</item>
  <item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_15"
identfierref="CHULA_RES_52BD29F0AF44DB74A64D8998_15" isvisible="true">
  <title>Item15</title>
</item>
  <item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_16"
identfierref="CHULA_RES_52BD29F0AF44DB74A64D8998_16" isvisible="true">
  <title>Item16</title>
</item>
  <item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_17"
identfierref="CHULA_RES_52BD29F0AF44DB74A64D8998_17" isvisible="true">
  <title>Item17</title>
</item>
  <item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_18"
identfierref="CHULA_RES_52BD29F0AF44DB74A64D8998_18" isvisible="true">

```

รูปที่ ก.1 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 1 (ต่อ)

```

<title>Item18</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_19"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_19" isvisible="true">
<title>Item19</title>
</item>
<item identifier="CHULA_ITEM_52BD29F0AF44DB74A64D8998_20"
identifierref="CHULA_RES_52BD29F0AF44DB74A64D8998_20" isvisible="true">
<title>Item20</title>
</item>
</organization>
</organizations>
<resources>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_0" type="webcontent"
adlcp:scormtype="sco" href="0018.html">
<file href="0018.html"/>
<file href="APIWrapper.js"/>
<file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_1" type="webcontent"
adlcp:scormtype="sco" href="0019.html">
<file href="0019.html"/>
<file href="APIWrapper.js"/>
<file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_2" type="webcontent"
adlcp:scormtype="sco" href="0020.html">
<file href="0020.html"/>
<file href="APIWrapper.js"/>
<file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_3" type="webcontent"
adlcp:scormtype="sco" href="0021.html">

```

```

<file href="0021.html"/>
<file href="APIWrapper.js"/>
<file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_4" type="webcontent"
adlcp:scormtype="sco" href="0022.html">
  <file href="0022.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_5" type="webcontent"
adlcp:scormtype="sco" href="0023.html">
  <file href="0023.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_6" type="webcontent"
adlcp:scormtype="sco" href="0024.html">
  <file href="0024.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_7" type="webcontent"
adlcp:scormtype="sco" href="0025.html">
  <file href="0025.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_8" type="webcontent"
adlcp:scormtype="sco" href="0026.html">
  <file href="0026.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>

```

```

</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_9" type="webcontent"
adlcp:scormtype="sco" href="0027.html">
  <file href="0027.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_10" type="webcontent"
adlcp:scormtype="sco" href="0028.html">
  <file href="0028.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_11" type="webcontent"
adlcp:scormtype="sco" href="0029.html">
  <file href="0029.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_12" type="webcontent"
adlcp:scormtype="sco" href="0030.html">
  <file href="0030.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_13" type="webcontent"
adlcp:scormtype="sco" href="0031.html">
  <file href="0031.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_14" type="webcontent"
adlcp:scormtype="sco" href="0032.html">

```



```

<file href="0032.html"/>
<file href="APIWrapper.js"/>
<file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_15" type="webcontent"
adlcp:scormtype="sco" href="0033.html">
  <file href="0033.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_16" type="webcontent"
adlcp:scormtype="sco" href="0034.html">
  <file href="0034.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_17" type="webcontent"
adlcp:scormtype="sco" href="0035.html">
  <file href="0035.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_18" type="webcontent"
adlcp:scormtype="sco" href="0036.html">
  <file href="0036.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_19" type="webcontent"
adlcp:scormtype="sco" href="0037.html">
  <file href="0037.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>

```

รูปที่ ก.1 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีสอบที่ 1 (ต่อ)

```

</resource>
<resource identifier="CHULA_RES_52BD29F0AF44DB74A64D8998_20" type="webcontent"
adlcp:scormtype="sco" href="0038.html">
  <file href="0038.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
</resources>
</manifest>

```

รูปที่ ก.1 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณีสอบที่ 1 (ต่อ)

ก.2 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณีสอบที่ 2

```

<?xml version="1.0" encoding="UTF-8"?>
<manifest identifier="CHULA_MANIFEST_9947CCB7E1188B398F65F699"
xmlns="http://www.imsproject.org/xsd/imscp_rootv1p1p2"
xmlns:imsmd="http://www.imsglobal.org/xsd/imsmd_rootv1p2p1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:adlcp="http://www.adlnet.org/xsd/adlcp_rootv1p2"
xsi:schemaLocation="http://www.imsproject.org/xsd/imscp_rootv1p1p2 imscp_rootv1p1p2.xsd
http://www.imsglobal.org/xsd/imsmd_rootv1p2p1 imsmd_rootv1p2p1.xsd
http://www.adlnet.org/xsd/adlcp_rootv1p2 adlcp_rootv1p2.xsd">
<metadata>
<schema>ADL SCORM</schema>
<schemaversion>1.2</schemaversion>
</metadata>
<organizations default="CHULA_ORG_9947CCB7E1188B398F65F699">
<organization identifier="CHULA_ORG_9947CCB7E1188B398F65F699" structure="hierarchical">
<title>Organization</title>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_0"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_0" isVisible="true">
<title>Item0</title>
</item>

```

รูปที่ ก.2 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณีสอบที่ 2

```
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_1"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_1" isvisible="true">
  <title>Item1</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_2"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_2" isvisible="true">
  <title>Item2</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_3"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_3" isvisible="true">
  <title>Item3</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_4"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_4" isvisible="true">
  <title>Item4</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_5"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_5" isvisible="true">
  <title>Item5</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_6"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_6" isvisible="true">
  <title>Item6</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_7"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_7" isvisible="true">
  <title>Item7</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_8"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_8" isvisible="true">
  <title>Item8</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_9"
```

รูปที่ ก.2 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 2 (ต่อ)

```

identifierref="CHULA_RES_9947CCB7E1188B398F65F699_9" isvisible="true">
  <title>Item9</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_10"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_10" isvisible="true">
  <title>Item10</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_11"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_11" isvisible="true">
  <title>Item11</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_12"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_12" isvisible="true">
  <title>Item12</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_13"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_13" isvisible="true">
  <title>Item13</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_14"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_14" isvisible="true">
  <title>Item14</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_15"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_15" isvisible="true">
  <title>Item15</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_16"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_16" isvisible="true">
  <title>Item16</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_17"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_17" isvisible="true">

```

```

<title>Item17</title>
</item>
<item identifier="CHULA_ITEM_9947CCB7E1188B398F65F699_18"
identifierref="CHULA_RES_9947CCB7E1188B398F65F699_18" isvisible="true">
  <title>Item18</title>
  </item>
</organization>
</organizations>
<resources>
  <resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_0" type="webcontent"
adlcp:scormtype="sco" href="images/set_images/set8_4.html">
  <file href="images/set_images/set8_4.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_1" type="webcontent"
adlcp:scormtype="sco" href="images/set_images/set8_5.html">
  <file href="images/set_images/set8_5.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_2" type="webcontent"
adlcp:scormtype="sco" href="images_set_lab/mathlab.htm">
  <file href="images_set_lab/mathlab.htm"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_3" type="webcontent"
adlcp:scormtype="sco" href="set1.html">
  <file href="set1.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
  </resource>

```

รูปที่ ก.2 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณีสอบที่ 2 (ต่อ)

```
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_4" type="webcontent"
adlcp:scormtype="sco" href="set10.html">
  <file href="set10.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_5" type="webcontent"
adlcp:scormtype="sco" href="set11.html">
  <file href="set11.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_6" type="webcontent"
adlcp:scormtype="sco" href="set12.html">
  <file href="set12.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_7" type="webcontent"
adlcp:scormtype="sco" href="set13.html">
  <file href="set13.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_8" type="webcontent"
adlcp:scormtype="sco" href="set14.html">
  <file href="set14.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_9" type="webcontent"
adlcp:scormtype="sco" href="set15.html">
  <file href="set15.html"/>
```

รูปที่ ก.2 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีสอบที่ 2 (ต่อ)

```

<file href="APIWrapper.js"/>
<file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_10" type="webcontent"
adlcp:scormtype="sco" href="set16.html">
  <file href="set16.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_11" type="webcontent"
adlcp:scormtype="sco" href="set2.html">
  <file href="set2.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_12" type="webcontent"
adlcp:scormtype="sco" href="set3.html">
  <file href="set3.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_13" type="webcontent"
adlcp:scormtype="sco" href="set4.html">
  <file href="set4.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_14" type="webcontent"
adlcp:scormtype="sco" href="set5.html">
  <file href="set5.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>

```

รูปที่ ก.2 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 2 (ต่อ)

```
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_15" type="webcontent"
adlcp:scormtype="sco" href="set6.html">
  <file href="set6.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_16" type="webcontent"
adlcp:scormtype="sco" href="set7.html">
  <file href="set7.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_17" type="webcontent"
adlcp:scormtype="sco" href="set8.html">
  <file href="set8.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
</resource>
<resource identifier="CHULA_RES_9947CCB7E1188B398F65F699_18" type="webcontent"
adlcp:scormtype="sco" href="set9.html">
  <file href="set9.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFuctions.js"/>
</resource>
</resources>
</manifest>
```

รูปที่ ก.2 ไฟล์manifestที่สร้างจากเครื่องมือของกรณีทดสอบที่ 2 (ต่อ)

ก.3 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณียกสอบที่ 3

```

<?xml version="1.0" encoding="UTF-8"?>
<manifest identifier="CHULA_MANIFEST_48C3D4937C6CC9A199770DDF"
xmlns="http://www.imsproject.org/xsd/imscp_rootv1p1p2"
xmlns:imsmd="http://www.imsglobal.org/xsd/imsmd_rootv1p2p1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:adlcp="http://www.adlnet.org/xsd/adlcp_rootv1p2"
xsi:schemaLocation="http://www.imsproject.org/xsd/imscp_rootv1p1p2 imscp_rootv1p1p2.xsd
http://www.imsglobal.org/xsd/imsmd_rootv1p2p1 imsmd_rootv1p2p1.xsd
http://www.adlnet.org/xsd/adlcp_rootv1p2 adlcp_rootv1p2.xsd">
<metadata>
<schema>ADL SCORM</schema>
<schemaversion>1.2</schemaversion>
</metadata>
<organizations default="CHULA_ORG_48C3D4937C6CC9A199770DDF">
<organization identifier="CHULA_ORG_48C3D4937C6CC9A199770DDF" structure="hierarchical">
<title>Organization</title>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_0"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_0" isvisible="true">
<title>Item0</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_1"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_1" isvisible="true">
<title>Item1</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_2"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_2" isvisible="true">
<title>Item2</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_3"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_3" isvisible="true">
<title>Item3</title>

```

รูปที่ ก.3 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณียกสอบที่ 3

```

</item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_4"
  identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_4" isvisible="true">
    <title>Item4</title>
  </item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_5"
  identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_5" isvisible="true">
    <title>Item5</title>
  </item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_6"
  identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_6" isvisible="true">
    <title>Item6</title>
  </item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_7"
  identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_7" isvisible="true">
    <title>Item7</title>
  </item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_8"
  identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_8" isvisible="true">
    <title>Item8</title>
  </item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_9"
  identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_9" isvisible="true">
    <title>Item9</title>
  </item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_10"
  identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_10" isvisible="true">
    <title>Item10</title>
  </item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_11"
  identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_11" isvisible="true">
    <title>Item11</title>
  </item>

```

รูปที่ ก.3 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 3 (ต่อ)

```

<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_12"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_12" isvisible="true">
  <title>Item12</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_13"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_13" isvisible="true">
  <title>Item13</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_14"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_14" isvisible="true">
  <title>Item14</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_15"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_15" isvisible="true">
  <title>Item15</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_16"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_16" isvisible="true">
  <title>Item16</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_17"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_17" isvisible="true">
  <title>Item17</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_18"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_18" isvisible="true">
  <title>Item18</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_19"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_19" isvisible="true">
  <title>Item19</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_20"

```

รูปที่ ก.3 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 3 (ต่อ)

```

identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_20" isvisible="true">
  <title>Item20</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_21"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_21" isvisible="true">
  <title>Item21</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_22"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_22" isvisible="true">
  <title>Item22</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_23"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_23" isvisible="true">
  <title>Item23</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_24"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_24" isvisible="true">
  <title>Item24</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_25"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_25" isvisible="true">
  <title>Item25</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_26"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_26" isvisible="true">
  <title>Item26</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_27"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_27" isvisible="true">
  <title>Item27</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_28"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_28" isvisible="true">

```

รูปที่ ก.3 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 3 (ต่อ)

```

<title>Item28</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_29"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_29" isvisible="true">
<title>Item29</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_30"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_30" isvisible="true">
<title>Item30</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_31"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_31" isvisible="true">
<title>Item31</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_32"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_32" isvisible="true">
<title>Item32</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_33"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_33" isvisible="true">
<title>Item33</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_34"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_34" isvisible="true">
<title>Item34</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_35"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_35" isvisible="true">
<title>Item35</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_36"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_36" isvisible="true">
<title>Item36</title>

```

```

</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_37"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_37" isvisible="true">
<title>Item37</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_38"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_38" isvisible="true">
<title>Item38</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_39"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_39" isvisible="true">
<title>Item39</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_40"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_40" isvisible="true">
<title>Item40</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_41"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_41" isvisible="true">
<title>Item41</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_42"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_42" isvisible="true">
<title>Item42</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_43"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_43" isvisible="true">
<title>Item43</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_44"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_44" isvisible="true">
<title>Item44</title>
</item>

```

```

<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_45"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_45" isvisible="true">
  <title>Item45</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_46"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_46" isvisible="true">
  <title>Item46</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_47"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_47" isvisible="true">
  <title>Item47</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_48"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_48" isvisible="true">
  <title>Item48</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_49"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_49" isvisible="true">
  <title>Item49</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_50"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_50" isvisible="true">
  <title>Item50</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_51"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_51" isvisible="true">
  <title>Item51</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_52"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_52" isvisible="true">
  <title>Item52</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_53"

```

```

identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_53" isVisible="true">
  <title>Item53</title>
</item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_54"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_54" isVisible="true">
  <title>Item54</title>
</item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_55"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_55" isVisible="true">
  <title>Item55</title>
</item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_56"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_56" isVisible="true">
  <title>Item56</title>
</item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_57"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_57" isVisible="true">
  <title>Item57</title>
</item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_58"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_58" isVisible="true">
  <title>Item58</title>
</item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_59"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_59" isVisible="true">
  <title>Item59</title>
</item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_60"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_60" isVisible="true">
  <title>Item60</title>
</item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_61"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_61" isVisible="true">

```



```
<title>Item61</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_62"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_62" isvisible="true">
<title>Item62</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_63"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_63" isvisible="true">
<title>Item63</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_64"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_64" isvisible="true">
<title>Item64</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_65"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_65" isvisible="true">
<title>Item65</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_66"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_66" isvisible="true">
<title>Item66</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_67"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_67" isvisible="true">
<title>Item67</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_68"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_68" isvisible="true">
<title>Item68</title>
</item>
<item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_69"
identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_69" isvisible="true">
<title>Item69</title>
```

```

</item>
  <item identifier="CHULA_ITEM_48C3D4937C6CC9A199770DDF_70"
  identifierref="CHULA_RES_48C3D4937C6CC9A199770DDF_70" isvisible="true">
    <title>Item70</title>
  </item>
</organization>
</organizations>
<resources>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_0" type="webcontent"
  adlcp:scormtype="sco" href="lesson01.html">
    <file href="lesson01.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_1" type="webcontent"
  adlcp:scormtype="sco" href="01-1.html">
    <file href="01-1.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_2" type="webcontent"
  adlcp:scormtype="sco" href="01-2.html">
    <file href="01-2.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_3" type="webcontent"
  adlcp:scormtype="sco" href="01-3.html">
    <file href="01-3.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_4" type="webcontent"

```

รูปที่ ก.3 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 3 (ต่อ)

```

adlcp:scormtype="sco" href="01-4.html">
  <file href="01-4.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_5" type="webcontent"
adlcp:scormtype="sco" href="01-5.html">
  <file href="01-5.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_6" type="webcontent"
adlcp:scormtype="sco" href="01-6.html">
  <file href="01-6.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_7" type="webcontent"
adlcp:scormtype="sco" href="01-7.html">
  <file href="01-7.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_8" type="webcontent"
adlcp:scormtype="sco" href="02-1.html">
  <file href="02-1.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_9" type="webcontent"
adlcp:scormtype="sco" href="02-2.html">
  <file href="02-2.html"/>
  <file href="APIWrapper.js"/>

```

รูปที่ ก.3 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 3 (ต่อ)

```

    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_10" type="webcontent"
adlcp:scormtype="sco" href="02-3.html">
    <file href="02-3.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_11" type="webcontent"
adlcp:scormtype="sco" href="02-4.html">
    <file href="02-4.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_12" type="webcontent"
adlcp:scormtype="sco" href="02-5.html">
    <file href="02-5.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_13" type="webcontent"
adlcp:scormtype="sco" href="02-6.html">
    <file href="02-6.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_14" type="webcontent"
adlcp:scormtype="sco" href="03-1.html">
    <file href="03-1.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_15" type="webcontent"

```

รูปที่ ก.3 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 3 (ต่อ)

```

adlcp:scormtype="sco" href="03-2.html">
  <file href="03-2.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_16" type="webcontent"
adlcp:scormtype="sco" href="03-3.html">
  <file href="03-3.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_17" type="webcontent"
adlcp:scormtype="sco" href="03-4.html">
  <file href="03-4.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_18" type="webcontent"
adlcp:scormtype="sco" href="04-1.html">
  <file href="04-1.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_19" type="webcontent"
adlcp:scormtype="sco" href="04-2.html">
  <file href="04-2.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_20" type="webcontent"
adlcp:scormtype="sco" href="04-3.html">
  <file href="04-3.html"/>
  <file href="APIWrapper.js"/>

```

```

    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_21" type="webcontent"
adlcp:scormtype="sco" href="04-5.html">
    <file href="04-5.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_22" type="webcontent"
adlcp:scormtype="sco" href="04.html">
    <file href="04.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_23" type="webcontent"
adlcp:scormtype="sco" href="05-1.html">
    <file href="05-1.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_24" type="webcontent"
adlcp:scormtype="sco" href="05-2.html">
    <file href="05-2.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_25" type="webcontent"
adlcp:scormtype="sco" href="05-3.html">
    <file href="05-3.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_26" type="webcontent"

```

รูปที่ ๓.3 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณีสอบที่ 3 (ต่อ)

```

adlcp:scormtype="sco" href="05-4.html">
  <file href="05-4.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_27" type="webcontent"
adlcp:scormtype="sco" href="06-1.html">
  <file href="06-1.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_28" type="webcontent"
adlcp:scormtype="sco" href="06-2.html">
  <file href="06-2.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_29" type="webcontent"
adlcp:scormtype="sco" href="06-3.html">
  <file href="06-3.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_30" type="webcontent"
adlcp:scormtype="sco" href="06-4.html">
  <file href="06-4.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_31" type="webcontent"
adlcp:scormtype="sco" href="06-5.html">
  <file href="06-5.html"/>
  <file href="APIWrapper.js"/>

```

```

    <file href="SCOFunctions.js"/>
  </resource>

  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_32" type="webcontent"
adlcp:scormtype="sco" href="07-1.html">
    <file href="07-1.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>

  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_33" type="webcontent"
adlcp:scormtype="sco" href="07-2.html">
    <file href="07-2.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>

  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_34" type="webcontent"
adlcp:scormtype="sco" href="07-3.html">
    <file href="07-3.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>

  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_35" type="webcontent"
adlcp:scormtype="sco" href="07-4.html">
    <file href="07-4.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>

  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_36" type="webcontent"
adlcp:scormtype="sco" href="07-5.html">
    <file href="07-5.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>

  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_37" type="webcontent"

```



```

adlcp:scormtype="sco" href="07-6.html">
  <file href="07-6.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_38" type="webcontent"
adlcp:scormtype="sco" href="07-7.html">
  <file href="07-7.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_39" type="webcontent"
adlcp:scormtype="sco" href="07-8.html">
  <file href="07-8.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_40" type="webcontent"
adlcp:scormtype="sco" href="08-1.html">
  <file href="08-1.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_41" type="webcontent"
adlcp:scormtype="sco" href="08-2.html">
  <file href="08-2.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_42" type="webcontent"
adlcp:scormtype="sco" href="08-3.html">
  <file href="08-3.html"/>
  <file href="APIWrapper.js"/>

```

รูปที่ ก.3 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีสอบที่ 3 (ต่อ)

```

    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_43" type="webcontent"
adlcp:scormtype="sco" href="08-4.html">
    <file href="08-4.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_44" type="webcontent"
adlcp:scormtype="sco" href="08-5.html">
    <file href="08-5.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_45" type="webcontent"
adlcp:scormtype="sco" href="09-1.html">
    <file href="09-1.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_46" type="webcontent"
adlcp:scormtype="sco" href="09-2.html">
    <file href="09-2.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_47" type="webcontent"
adlcp:scormtype="sco" href="09-3.html">
    <file href="09-3.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_48" type="webcontent"

```

รูปที่ ก.3 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณียกสอบที่ 3 (ต่อ)

```

adlcp:scormtype="sco" href="09-4.html">
  <file href="09-4.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_49" type="webcontent"
adlcp:scormtype="sco" href="09-5.html">
  <file href="09-5.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_50" type="webcontent"
adlcp:scormtype="sco" href="09-6.html">
  <file href="09-6.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_51" type="webcontent"
adlcp:scormtype="sco" href="09-7.html">
  <file href="09-7.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_52" type="webcontent"
adlcp:scormtype="sco" href="09-8.html">
  <file href="09-8.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_53" type="webcontent"
adlcp:scormtype="sco" href="09-9.html">
  <file href="09-9.html"/>
  <file href="APIWrapper.js"/>

```

รูปที่ ก.3 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณียกสอบที่ 3 (ต่อ)

```

    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_54" type="webcontent"
adlcp:scormtype="sco" href="10-1.html">
    <file href="10-1.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_55" type="webcontent"
adlcp:scormtype="sco" href="10-2.html">
    <file href="10-2.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_56" type="webcontent"
adlcp:scormtype="sco" href="10-3.html">
    <file href="10-3.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_57" type="webcontent"
adlcp:scormtype="sco" href="10-4-1.html">
    <file href="10-4-1.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_58" type="webcontent"
adlcp:scormtype="sco" href="10-4-2.html">
    <file href="10-4-2.html"/>
    <file href="APIWrapper.js"/>
    <file href="SCOFunctions.js"/>
  </resource>
  <resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_59" type="webcontent"

```

รูปที่ ก.3 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณียกสอบที่ 3 (ต่อ)

```

adlcp:scormtype="sco" href="10-4-3.html">
  <file href="10-4-3.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_60" type="webcontent"
adlcp:scormtype="sco" href="10-4-4.html">
  <file href="10-4-4.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_61" type="webcontent"
adlcp:scormtype="sco" href="10-4.html">
  <file href="10-4.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_62" type="webcontent"
adlcp:scormtype="sco" href="lesson02.html">
  <file href="lesson02.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_63" type="webcontent"
adlcp:scormtype="sco" href="lesson03.html">
  <file href="lesson03.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_64" type="webcontent"
adlcp:scormtype="sco" href="lesson04.html">
  <file href="lesson04.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>

```

รูปที่ ก.3 ไฟล์มานิเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 3 (ต่อ)

```

</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_65" type="webcontent"
adlcp:scormtype="sco" href="lesson05.html">
  <file href="lesson05.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_66" type="webcontent"
adlcp:scormtype="sco" href="lesson06.html">
  <file href="lesson06.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_67" type="webcontent"
adlcp:scormtype="sco" href="lesson07.html">
  <file href="lesson07.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_68" type="webcontent"
adlcp:scormtype="sco" href="lesson08.html">
  <file href="lesson08.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_69" type="webcontent"
adlcp:scormtype="sco" href="lesson09.html">
  <file href="lesson09.html"/>
  <file href="APIWrapper.js"/>
  <file href="SCOFunctions.js"/>
</resource>
<resource identifier="CHULA_RES_48C3D4937C6CC9A199770DDF_70" type="webcontent"
adlcp:scormtype="sco" href="lesson10.html">

```

```
<file href="lesson10.html"/>  
<file href="APIWrapper.js"/>  
<file href="SCOFuctions.js"/>  
</resource>  
</resources>  
</manifest>
```

รูปที่ ก.3 ไฟล์ маниเฟสที่สร้างจากเครื่องมือของกรณีทดสอบที่ 3 (ต่อ)

ภาคผนวก ข

ผลการทดสอบความสอดคล้องกับข้อกำหนดสกอกรม

ในภาคผนวกนี้แสดงผลการทดสอบจากการนำไฟล์แพคเกจอินเตอร์เนตที่สร้างด้วยเครื่องมือไปทดสอบความสอดคล้องกับข้อกำหนดสกอกรมด้วยโปรแกรม ADL SCORM Conformance Test Suite รุ่น 1.2.7 (Self Test) รายละเอียดสามารถแสดงได้ดังนี้

1. ไฟล์ TestLog_4_17_012.htm ของกรณีศึกษาที่ 1

```

Advanced Distributed Learning (ADL)
Sharable Content Object Reference Model (SCORM?) Version 1.2
Test Suite Version 1.2.7
Self Test Log

1 Test Identification Information:
Date: 17 เมษายน 2551 0:02:08
Content Package Product: e-learning
Content Package Version: 1.0
Content Package Vendor/Developer: Chula

1 *****
1 Reading and parsing the Manifest.
1 This may take a few minutes, please be patient.
1 *****

*****
1 Manifest Test Conformance Summary
✓ The manifest is well-formed
✓ The manifest is valid against the controlling documents
✓ The manifest is valid against the SCORM Application Profiles
✓ The manifest does NOT contain extensions

Click here to view complete manifest test log

*****

===== Meta-data Testing =====
Testing meta-data found within the package
===== Meta-data Testing =====

===== SCO Test =====
Testing SCOs found in Content Package
===== SCO Test =====

=====
1 The following SCOs were found in the package
1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0037.html
1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0023.html
1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0027.html
1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0031.html
1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0020.html
1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0035.html

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณีศึกษาที่ 1


```

i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0019.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0021.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0025.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0029.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0030.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0018.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0026.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0022.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0024.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0036.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0034.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0032.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0028.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0038.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0033.html
=====
i Test Identification Information:
Date: 17 มกราคม 2551 0:04:39
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0037.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0037.html

i SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:04.26) has been invoked
✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
✓ LMSFinish() finished successfully

i SCO is no longer initialized

SCORM 1.2 Run-Time Environment Conformant
SCO-RTE1+Mandatory
i Features Supported:
i API Support
✓ Find an LMS provided API Adapter

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกษณศึกษาที่ 1 (ต่อ)

```

i Execution State:
✓ LMSInitialize()
✓ LMSFinish()
i Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
i State Management:
✓ LMSGetLastError()
i Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 เมษายน 2551 0:04:51
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0023.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0023.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0023.html

i SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:03.07) has been invoked
✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
✓ LMSCommit() finished successfully

i LMSFinish() has been invoked

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอรั้มกรณีศึกษาที่ 1 (ต่อ)

```

✓ LMSFinish() finished successfully
❗ SCO is no longer initialized
SCORM 1.2 Run-Time Environment Conformant
  SCO-RTE1+Mandatory
  Features Supported:
  API Support
  ✓ Find an LMS provided API Adapter
  Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
  Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
  State Management:
  ✓ LMSGetLastError()
  Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

-----

❗ Test Identification Information:
Date: 17 เมษายน 2551 0:05:03
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0027.html

❗ Starting Self Test

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0027.html

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0027.html

❗ SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

❗ LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

❗ LMSGetValue(cmi.core.lesson_status) has been invoked
❗ Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

❗ LMSGetLastError() has been invoked
❗ Last Error: 0
✓ LMSGetLastError() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมการศึกษาที่ 1 (ต่อ)

```

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:12.78) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
  ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
  ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
  ✓ Find an LMS provided API Adapter
i Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 เมษายน 2551 0:05:23
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0031.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0031.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0031.html

i SCO is searching for the API Adapter
  ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
  ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 1 (ต่อ)

```

i LMSGetLastError() has been invoked
i Last Error: 0
  ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:02.84) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
  ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
  ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
  ✓ Find an LMS provided API Adapter
i Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

=====

=====

i Test Identification Information:
Date: 17 เมษายน 2551 0:05:33
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0020.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0020.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0020.html

i SCO is searching for the API Adapter

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมการศึกษาที่ 1 (ต่อ)

```

✓ SCO was able to find the API Adapter
❗ LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully
❗ LMSGetValue(cmi.core.lesson_status) has been invoked
❗ Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully
❗ LMSGetLastError() has been invoked
❗ Last Error: 0
✓ LMSGetLastError() finished successfully
❗ LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSSetValue(cmi.core.session_time,00:00:03.09) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSCommit() has been invoked
✓ LMSCommit() finished successfully
❗ LMSFinish() has been invoked
✓ LMSFinish() finished successfully
❗ SCO is no longer initialized
❗ SCORM 1.2 Run-Time Environment Conformant
❗ SCO-RTE1+Mandatory
❗ Features Supported:
❗ API Support
✓ Find an LMS provided API Adapter
❗ Execution State:
✓ LMSInitialize()
✓ LMSFinish()
❗ Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
❗ State Management:
✓ LMSGetLastError()
❗ Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

❗ Test Identification Information:
Date: 17 เมษายน 2551 0:05:44
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0035.html
❗ Starting Self Test

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 1 (ต่อ)

```

i Loading the Sharable Content Object
i Attempting to Launch SCO
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0035.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0035.html

i SCO is searching for the API Adapter
    ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
    ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
    ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
    ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:01.8) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
    ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
    ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
    ✓ Find an LMS provided API Adapter
i Execution State:
    ✓ LMSInitialize()
    ✓ LMSFinish()
i Data Transfer:
    ✓ LMSGetValue()
    ✓ LMSSetValue()
    ✓ LMSCommit()
i State Management:
    ✓ LMSGetLastError()
i Data Model Support
    ✓ SCORM Run-Time Environment Data Model
    ✓ cmi.core.lesson_status
    ✓ cmi.core.exit
    ✓ cmi.core.session_time

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอर्मกรณีสึกษาที่ 1 (ต่อ)

```

i Test Identification Information:
    Date: 17 มกราคม 2551 0:05:53
    SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0019.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0019.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0019.html

i SCO is searching for the API Adapter
    ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
    ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
    ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
    ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:03.27) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
    ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
    ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
    ✓ Find an LMS provided API Adapter
i Execution State:
    ✓ LMSInitialize()
    ✓ LMSFinish()
i Data Transfer:
    ✓ LMSGetValue()
    ✓ LMSSetValue()
    ✓ LMSCommit()
i State Management:
    ✓ LMSGetLastError()
i Data Model Support
    ✓ SCORM Run-Time Environment Data Model
  
```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 1 (ต่อ)


```

✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

❗ Test Identification Information:
Date: 17 เมษายน 2551 0:06:04
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0021.html

❗ Starting Self Test

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0021.html

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0021.html

❗ SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

❗ LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

❗ LMSGetValue(cmi.core.lesson_status) has been invoked
❗ Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

❗ LMSGetLastError() has been invoked
❗ Last Error: 0
✓ LMSGetLastError() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.session_time,00:00:01.29) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSCommit() has been invoked
✓ LMSCommit() finished successfully

❗ LMSFinish() has been invoked
✓ LMSFinish() finished successfully

❗ SCO is no longer initialized

❗ SCORM 1.2 Run-Time Environment Conformant
❗ SCO-RTE1+Mandatory
❗ Features Supported:
❗ API Support
✓ Find an LMS provided API Adapter
❗ Execution State:
✓ LMSInitialize()
✓ LMSFinish()

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอर्मกรณีศึกษาที่ 1 (ต่อ)

```

i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

=====

=====

i Test Identification Information:
Date: 17 เมษายน 2551 0:06:12
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0025.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0025.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0025.html

i SCO is searching for the API Adapter
  ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
  ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
  ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:01.4) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
  ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
  ✓ LMSFinish() finished successfully

i SCO is no longer initialized

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอรักรมกรณีสึกษาที่ 1 (ต่อ)

```

SCORM 1.2 Run-Time Environment Conformant
  SCO-RTE1+Mandatory
  Features Supported:
  API Support
    Find an LMS provided API Adapter
  Execution State:
    LMSInitialize()
    LMSFinish()
  Data Transfer:
    LMSGetValue()
    LMSSetValue()
    LMSCommit()
  State Management:
    LMSGetLastError()
  Data Model Support
    SCORM Run-Time Environment Data Model
    cmi.core.lesson_status
    cmi.core.exit
    cmi.core.session_time

-----

-----

  Test Identification Information:
  Date: 17 เมษายน 2551 0:06:20
  SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0029.html

  Starting Self Test

  Loading the Sharable Content Object
  Attempting to Launch SCO
  C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0029.html

  Loading the Sharable Content Object
  Attempting to Launch SCO:
  C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0029.html

  SCO is searching for the API Adapter
  SCO was able to find the API Adapter

  LMSInitialize() has been invoked
  LMSInitialize() finished successfully

  LMSGetValue(cmi.core.lesson_status) has been invoked
  Value returned from LMS: [not attempted]
  LMSGetValue() finished successfully

  LMSGetLastError() has been invoked
  Last Error: 0
  LMSGetLastError() finished successfully

  LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  LMSSetValue() finished successfully

  LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  LMSSetValue() finished successfully

  LMSSetValue(cmi.core.exit,suspend) has been invoked
  LMSSetValue() finished successfully

  LMSSetValue(cmi.core.session_time,00:00:01.33) has been invoked
  LMSSetValue() finished successfully

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอर्मกรณีสึกษาที่ 1 (ต่อ)

```

i LMSCommit() has been invoked
  ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
  ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
  ✓ Find an LMS provided API Adapter
i Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 เมษายน 2551 0:06:30
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0030.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0030.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0030.html

i SCO is searching for the API Adapter
  ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
  ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
  ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอर्मกรณีศึกษาที่ 1 (ต่อ)

```

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:01.44) has been invoked
✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
✓ Find an LMS provided API Adapter
i Execution State:
✓ LMSInitialize()
✓ LMSFinish()
i Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
i State Management:
✓ LMSGetLastError()
i Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

=====

=====

i Test Identification Information:
Date: 17 เมษายน 2551 0:06:40
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0018.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0018.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0018.html

i SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 1 (ต่อ)

```

✓ LMSGetValue() finished successfully
❗ LMSGetLastError() has been invoked
❗ Last Error: 0
✓ LMSGetLastError() finished successfully
❗ LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSSetValue(cmi.core.session_time,00:00:03.93) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSCommit() has been invoked
✓ LMSCommit() finished successfully
❗ LMSFinish() has been invoked
✓ LMSFinish() finished successfully
❗ SCO is no longer initialized
🔧 SCORM 1.2 Run-Time Environment Conformant
🔧 SCO-RTE1+Mandatory
❗ Features Supported:
❗ API Support
✓ Find an LMS provided API Adapter
❗ Execution State:
✓ LMSInitialize()
✓ LMSFinish()
❗ Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
❗ State Management:
✓ LMSGetLastError()
❗ Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

=====

=====

❗ Test Identification Information:
Date: 17 เมษายน 2551 0:06:52
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0026.html

❗ Starting Self Test

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0026.html

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0026.html

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอรัวมกรณีศึกษาที่ 1 (ต่อ)

```

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:01.44) has been invoked
✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
✓ LMSFinish() finished successfully

i SCO is no longer initialized

 SCORM 1.2 Run-Time Environment Conformant
 SCO-RTE1+Mandatory
i Features Supported:
i API Support
✓ Find an LMS provided API Adapter
i Execution State:
✓ LMSInitialize()
✓ LMSFinish()
i Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
i State Management:
✓ LMSGetLastError()
i Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 เมษายน 2551 0:06:40
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0018.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0018.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0018.html

i SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอर्मกรณศึกษาที่ 1 (ต่อ)

```

1 SCO is searching for the API Adapter
  ✓ SCO was able to find the API Adapter

1 LMSInitialize() has been invoked
  ✓ LMSInitialize() finished successfully

1 LMSGetValue(cmi.core.lesson_status) has been invoked
1 Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

1 LMSGetLastError() has been invoked
1 Last Error: 0
  ✓ LMSGetLastError() finished successfully

1 LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

1 LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

1 LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

1 LMSSetValue(cmi.core.session_time,00:00:02.64) has been invoked
  ✓ LMSSetValue() finished successfully

1 LMSCommit() has been invoked
  ✓ LMSCommit() finished successfully

1 LMSFinish() has been invoked
  ✓ LMSFinish() finished successfully

1 SCO is no longer initialized

1 SCORM 1.2 Run-Time Environment Conformant
1 SCO-RTE1+Mandatory
1 Features Supported:
1 API Support
  ✓ Find an LMS provided API Adapter
1 Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
1 Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
1 State Management:
  ✓ LMSGetLastError()
1 Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

-----

1 Test Identification Information:
Date: 17 เมษายน 2551 0:07:03
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0022.html

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอर्मกรณีสึกษาที่ 1 (ต่อ)


```

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:01.44) has been invoked
✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
✓ Find an LMS provided API Adapter
i Execution State:
✓ LMSInitialize()
✓ LMSFinish()
i Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
i State Management:
✓ LMSGetLastError()
i Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 เมษายน 2551 0:06:40
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0018.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0018.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0018.html

i SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 1 (ต่อ)

```

i Starting Self Test
i Loading the Sharable Content Object
i Attempting to Launch SCO
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0022.html
i Loading the Sharable Content Object
i Attempting to Launch SCO:
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0022.html
i SCO is searching for the API Adapter
    ✓ SCO was able to find the API Adapter
i LMSInitialize() has been invoked
    ✓ LMSInitialize() finished successfully
i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
    ✓ LMSGetValue() finished successfully
i LMSGetLastError() has been invoked
i Last Error: 0
    ✓ LMSGetLastError() finished successfully
i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
    ✓ LMSSetValue() finished successfully
i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
    ✓ LMSSetValue() finished successfully
i LMSSetValue(cmi.core.exit,suspend) has been invoked
    ✓ LMSSetValue() finished successfully
i LMSSetValue(cmi.core.session_time,00:00:02.22) has been invoked
    ✓ LMSSetValue() finished successfully
i LMSCommit() has been invoked
    ✓ LMSCommit() finished successfully
i LMSFinish() has been invoked
    ✓ LMSFinish() finished successfully
i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
    ✓ Find an LMS provided API Adapter
i Execution State:
    ✓ LMSInitialize()
    ✓ LMSFinish()
i Data Transfer:
    ✓ LMSGetValue()
    ✓ LMSSetValue()
    ✓ LMSCommit()
i State Management:
    ✓ LMSGetLastError()
i Data Model Support
    ✓ SCORM Run-Time Environment Data Model
    ✓ cmi.core.lesson_status
    ✓ cmi.core.exit
    ✓ cmi.core.session_time

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณีสึกษาที่ 1 (ต่อ)

```

i Test Identification Information:
    Date: 17 เมษายน 2551 0:07:15
    SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0024.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0024.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0024.html

i SCO is searching for the API Adapter
    ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
    ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
    ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
    ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:02.51) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
    ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
    ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
    ✓ Find an LMS provided API Adapter
i Execution State:
    ✓ LMSInitialize()
    ✓ LMSFinish()
i Data Transfer:
    ✓ LMSGetValue()
    ✓ LMSSetValue()
    ✓ LMSCommit()
i State Management:
    ✓ LMSGetLastError()
i Data Model Support
  
```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมการศึกษาที่ 1 (ต่อ)

```

✓ SCORM Run-Time Environment Data Model
✓   cmi.core.lesson_status
✓   cmi.core.exit
✓   cmi.core.session_time

=====

=====

❗ Test Identification Information:
   Date: 17 เมษายน 2551 0:07:26
   SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0036.html

❗ Starting Self Test

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO
   C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0036.html

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO:
   C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0036.html

❗ SCO is searching for the API Adapter
✓   SCO was able to find the API Adapter

❗ LMSInitialize() has been invoked
✓   LMSInitialize() finished successfully

❗ LMSGetValue(cmi.core.lesson_status) has been invoked
❗ Value returned from LMS: [not attempted]
✓   LMSGetValue() finished successfully

❗ LMSGetLastError() has been invoked
❗ Last Error: 0
✓   LMSGetLastError() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓   LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓   LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.exit,suspend) has been invoked
✓   LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.session_time,00:00:01.06) has been invoked
✓   LMSSetValue() finished successfully

❗ LMSCommit() has been invoked
✓   LMSCommit() finished successfully

❗ LMSFinish() has been invoked
✓   LMSFinish() finished successfully

❗ SCO is no longer initialized

❗ SCORM 1.2 Run-Time Environment Conformant
❗   SCO-RTE1+Mandatory
❗ Features Supported:
❗ API Support
✓   Find an LMS provided API Adapter
❗ Execution State:

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 1 (ต่อ)

```

✓ LMSInitialize()
✓ LMSFinish()
❗ Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
❗ State Management:
✓ LMSGetLastError()
❗ Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

❗ Test Identification Information:
Date: 17 เมษายน 2551 0:07:35
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0034.html

❗ Starting Self Test

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0034.html

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0034.html

❗ SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

❗ LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

❗ LMSGetValue(cmi.core.lesson_status) has been invoked
❗ Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

❗ LMSGetLastError() has been invoked
❗ Last Error: 0
✓ LMSGetLastError() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.session_time,00:00:01.37) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSCommit() has been invoked
✓ LMSCommit() finished successfully

❗ LMSFinish() has been invoked
✓ LMSFinish() finished successfully

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 1 (ต่อ)

```

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
  ✓ Find an LMS provided API Adapter
i Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

=====

=====

i Test Identification Information:
Date: 17 เมษายน 2551 0:07:44
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0032.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0032.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0032.html

i SCO is searching for the API Adapter
  ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
  ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
  ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมวิชาชีพที่ 1 (ต่อ)

```

i LMSSetValue(cmi.core.session_time,00:00:02.27) has been invoked
✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
✓ Find an LMS provided API Adapter
i Execution State:
✓ LMSInitialize()
✓ LMSFinish()
i Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
i State Management:
✓ LMSGetLastError()
i Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

=====

=====

i Test Identification Information:
Date: 17 เมษายน 2551 0:07:55
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0028.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0028.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0028.html

i SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
✓ LMSGetLastError() finished successfully

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกออร์มกรณศึกษาที่ 1 (ต่อ)

```

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:01.52) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
  ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
  ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
  ✓ Find an LMS provided API Adapter
i Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

=====

=====

i Test Identification Information:
Date: 17 เมษายน 2551 0:08:06
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0038.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0038.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0038.html

i SCO is searching for the API Adapter
  ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
  ✓ LMSInitialize() finished successfully

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมวิชาชีพที่ 1 (ต่อ)


```

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
  ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:01.91) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
  ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
  ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
  ✓ Find an LMS provided API Adapter
i Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 เมษายน 2551 0:08:17
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0033.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0033.html

i Loading the Sharable Content Object

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอรัมกรณีศึกษาที่ 1 (ต่อ)

```

i Attempting to Launch SCO:
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/0033.html

i SCO is searching for the API Adapter
    ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
    ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
    ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
    ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:03.24) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
    ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
    ✓ LMSFinish() finished successfully


i SCO is no longer initialized

A SCORM 1.2 Run-Time Environment Conformant
A SCO-RTE1+Mandatory
i Features Supported:
i API Support
    ✓ Find an LMS provided API Adapter
i Execution State:
    ✓ LMSInitialize()
    ✓ LMSFinish()
i Data Transfer:
    ✓ LMSGetValue()
    ✓ LMSSetValue()
    ✓ LMSCommit()
i State Management:
    ✓ LMSGetLastError()
i Data Model Support
    ✓ SCORM Run-Time Environment Data Model
    ✓ cmi.core.lesson_status
    ✓ cmi.core.exit
    ✓ cmi.core.session_time

=====
=====

```

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 1 (ต่อ)

 Package is SCORM Version 1.2 ADLCP-PIF1 Conformant

i Successful outcome of this test does not constitute ADL Certification unless the test was conducted by an ADL Certified Auditor.

รูปที่ ข.1 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมวิชาชีพที่ 1 (ต่อ)

2. ไฟล์ TestLog_4_17_013.htm ของกรมวิชาชีพที่ 2

Advanced Distributed Learning (ADL)
Sharable Content Object Reference Model (SCORM?) Version 1.2
Test Suite Version 1.2.7
Self Test Log

i Test Identification Information:
Date: 17 เมษายน 2551 19:01:21
Content Package Product: Set
Content Package Version: 1.0
Content Package Vendor/Developer: Chula

i *****
i Reading and parsing the Manifest.
i This may take a few minutes, please be patient.
i *****

i Manifest Test Conformance Summary
✓ The manifest is well-formed
✓ The manifest is valid against the controlling documents
✓ The manifest is valid against the SCORM Application Profiles
✓ The manifest does NOT contain extensions

[Click here to view complete manifest test log](#)

===== Meta-data Testing =====
Testing meta-data found within the package
===== Meta-data Testing =====

===== SCO Test =====
Testing SCOs found in Content Package
===== SCO Test =====

i The following SCOs were found in the package
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set14.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set02.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set10.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set09.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set04.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set11.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set07.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set08.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set06.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set16.html
i C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set12.html

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมวิชาชีพที่ 2

```

1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set01.html
1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set05.html
1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set03.html
1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set15.html
1 C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set13.html
-----
1 Test Identification Information:
Date: 17 เมษายน 2551 19:02:03
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set14.html

1 Starting Self Test

1 Loading the Sharable Content Object
1 Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set14.html

1 SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

1 LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

1 LMSGetValue(cmi.core.lesson_status) has been invoked
1 Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

1 LMSGetLastError() has been invoked
1 Last Error: 0
✓ LMSGetLastError() finished successfully

1 LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

1 LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

1 LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

1 LMSSetValue(cmi.core.session_time,00:00:02.97) has been invoked
✓ LMSSetValue() finished successfully

1 LMSCommit() has been invoked
✓ LMSCommit() finished successfully

1 LMSFinish() has been invoked
✓ LMSFinish() finished successfully

1 SCO is no longer initialized

1 SCORM 1.2 Run-Time Environment Conformant
1 SCO-RTE1+Mandatory
1 Features Supported:
1 API Support
✓ Find an LMS provided API Adapter
1 Execution State:
✓ LMSInitialize()
✓ LMSFinish()
1 Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
1 State Management:

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 2 (ต่อ)

```

✓ LMSGetLastError()
❗ Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

❗ Test Identification Information:
Date: 17 เมษายน 2551 19:02:12
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set02.html

❗ Starting Self Test

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set02.html

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set02.html

❗ SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

❗ LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

❗ LMSGetValue(cmi.core.lesson_status) has been invoked
❗ Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

❗ LMSGetLastError() has been invoked
❗ Last Error: 0
✓ LMSGetLastError() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.session_time,00:00:02.34) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSCommit() has been invoked
✓ LMSCommit() finished successfully

❗ LMSFinish() has been invoked
✓ LMSFinish() finished successfully

❗ SCO is no longer initialized

❗ SCORM 1.2 Run-Time Environment Conformant
❗ SCO-RTE1+Mandatory
❗ Features Supported:

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 2 (ต่อ)

```

i API Support
  ✓ Find an LMS provided API Adapter
i Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

-----

i Test Identification Information:
Date: 17 เมษายน 2551 19:02:20
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set10.html

i Starting Self Test.

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set10.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set10.html

i SCO is searching for the API Adapter
  ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
  ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
  ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:01.94) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 2 (ต่อ)

```

✓ LMSCommit() finished successfully
❗ LMSFinish() has been invoked
✓ LMSFinish() finished successfully
❗ SCO is no longer initialized
❗ SCORM 1.2 Run-Time Environment Conformant
❗ SCO-RTE1+Mandatory
❗ Features Supported:
❗ API Support
✓ Find an LMS provided API Adapter
❗ Execution State:
✓ LMSInitialize()
✓ LMSFinish()
❗ Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
❗ State Management:
✓ LMSGetLastError()
❗ Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

❗ Test Identification Information:
Date: 17 เมษายน 2551 19:02:30
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set09.html

❗ Starting Self Test

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set09.html

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set09.html

❗ SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

❗ LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

❗ LMSGetValue(cmi.core.lesson_status) has been invoked
❗ Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

❗ LMSGetLastError() has been invoked
❗ Last Error: 0
✓ LMSGetLastError() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 2 (ต่อ)

```

1 LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

1 LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

1 LMSSetValue(cmi.core.session_time,00:00:03.47) has been invoked
✓ LMSSetValue() finished successfully

1 LMSCommit() has been invoked
✓ LMSCommit() finished successfully

1 LMSFinish() has been invoked
✓ LMSFinish() finished successfully

1 SCO is no longer initialized

1 SCORM 1.2 Run-Time Environment Conformant
1 SCO-RTE1+Mandatory
1 Features Supported:
1 API Support
✓ Find an LMS provided API Adapter
1 Execution State:
✓ LMSInitialize()
✓ LMSFinish()
1 Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
1 State Management:
✓ LMSGetLastError()
1 Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

1 Test Identification Information:
Date: 17 เมษายน 2551 19:02:42
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set04.html

1 Starting Self Test

1 Loading the Sharable Content Object
1 Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set04.html

1 Loading the Sharable Content Object
1 Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set04.html

1 SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

1 LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

1 LMSGetValue(cmi.core.lesson_status) has been invoked

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมการศึกษาที่ 2 (ต่อ)


```

i Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
  ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:02.47) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
  ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
  ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
  ✓ Find an LMS provided API Adapter
i Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

-----

i Test Identification Information:
Date: 17 เมษายน 2551 19:02:51
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set11.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set11.html

i Loading the Sharable Content Object

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมการศึกษาที่ 2 (ต่อ)

```

i Attempting to Launch SCO:
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set11.html

i SCO is searching for the API Adapter
    ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
    ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
    ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
    ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:02.71) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
    ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
    ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
    ✓ Find an LMS provided API Adapter
i Execution State:
    ✓ LMSInitialize()
    ✓ LMSFinish()
i Data Transfer:
    ✓ LMSGetValue()
    ✓ LMSSetValue()
    ✓ LMSCommit()
i State Management:
    ✓ LMSGetLastError()
i Data Model Support
    ✓ SCORM Run-Time Environment Data Model
    ✓ cmi.core.lesson_status
    ✓ cmi.core.exit
    ✓ cmi.core.session_time

-----
-----

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 2 (ต่อ)

```

I Test Identification Information:
    Date: 17 เมษายน 2551 19:03:01
    SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set07.html

I Starting Self Test

I Loading the Sharable Content Object
I Attempting to Launch SCO
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set07.html

I Loading the Sharable Content Object
I Attempting to Launch SCO:
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set07.html

I SCO is searching for the API Adapter
    ✓ SCO was able to find the API Adapter

I LMSInitialize() has been invoked
    ✓ LMSInitialize() finished successfully

I LMSGetValue(cmi.core.lesson_status) has been invoked
I Value returned from LMS: [not attempted]
    ✓ LMSGetValue() finished successfully

I LMSGetLastError() has been invoked
I Last Error: 0
    ✓ LMSGetLastError() finished successfully

I LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
    ✓ LMSSetValue() finished successfully

I LMSSetValue(cmi.core.lesson_status,completed) has been invoked
    ✓ LMSSetValue() finished successfully

I LMSSetValue(cmi.core.exit,suspend) has been invoked
    ✓ LMSSetValue() finished successfully

I LMSSetValue(cmi.core.session_time,00:00:01.81) has been invoked
    ✓ LMSSetValue() finished successfully

I LMSCommit() has been invoked
    ✓ LMSCommit() finished successfully

I LMSFinish() has been invoked
    ✓ LMSFinish() finished successfully

I SCO is no longer initialized

I SCORM 1.2 Run-Time Environment Conformant
I SCO-RTE1+Mandatory
I Features Supported:
I API Support
    ✓ Find an LMS provided API Adapter
I Execution State:
    ✓ LMSInitialize()
    ✓ LMSFinish()
I Data Transfer:
    ✓ LMSGetValue()
    ✓ LMSSetValue()
    ✓ LMSCommit()
I State Management:
    ✓ LMSGetLastError()
I Data Model Support
    ✓ SCORM Run-Time Environment Data Model
  
```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 2 (ต่อ)

```

✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 เมษายน 2551 19:03:09
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set08.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set08.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set08.html

i SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:02.37) has been invoked
✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
SCO-RTE1+Mandatory
i Features Supported:
i API Support
✓ Find an LMS provided API Adapter
i Execution State:
✓ LMSInitialize()

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 2 (ต่อ)

```

✓ LMSFinish()
❗ Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
❗ State Management:
✓ LMSGetLastError()
❗ Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

=====

=====

❗ Test Identification Information:
Date: 17 มกราคม 2551 19:03:19
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set06.html

❗ Starting Self Test

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set06.html

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set06.html

❗ SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

❗ LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

❗ LMSGetValue(cmi.core.lesson_status) has been invoked
❗ Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

❗ LMSGetLastError() has been invoked
❗ Last Error: 0
✓ LMSGetLastError() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSSetValue(cmi.core.session_time,00:00:01.88) has been invoked
✓ LMSSetValue() finished successfully

❗ LMSCommit() has been invoked
✓ LMSCommit() finished successfully

❗ LMSFinish() has been invoked
✓ LMSFinish() finished successfully

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 2 (ต่อ)

```

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
  ✓ Find an LMS provided API Adapter
i Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 เมษายน 2551 19:03:28
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set16.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set16.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set16.html

i SCO is searching for the API Adapter
  ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
  ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
  ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมการศึกษาที่ 2 (ต่อ)

```

i LMSSetValue(cmi.core.session_time,00:00:01.92) has been invoked
✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
✓ Find an LMS provided API Adapter
i Execution State:
✓ LMSInitialize()
✓ LMSFinish()
i Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
i State Management:
✓ LMSGetLastError()
i Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 เมษายน 2551 19:03:38
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set12.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set12.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set12.html

i SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
✓ LMSGetLastError() finished successfully

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอรักรมกรณีศึกษาที่ 2 (ต่อ)

```

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:02.35) has been invoked
✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
✓ Find an LMS provided API Adapter
i Execution State:
✓ LMSInitialize()
✓ LMSFinish()
i Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
i State Management:
✓ LMSGetLastError()
i Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 เมษายน 2551 19:03:49
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set01.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set01.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set01.html

i SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 2 (ต่อ)


```

✓ LMSInitialize() finished successfully
❗ LMSGetValue(cmi.core.lesson_status) has been invoked
❗ Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully
❗ LMSGetLastError() has been invoked
❗ Last Error: 0
✓ LMSGetLastError() finished successfully
❗ LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSSetValue(cmi.core.session_time,00:00:02.83) has been invoked
✓ LMSSetValue() finished successfully
❗ LMSCommit() has been invoked
✓ LMSCommit() finished successfully
❗ LMSFinish() has been invoked
✓ LMSFinish() finished successfully
❗ SCO is no longer initialized

SCORM 1.2 Run-Time Environment Conformant
SCO-RTE1+Mandatory
❗ Features Supported:
❗ API Support
✓ Find an LMS provided API Adapter
❗ Execution State:
✓ LMSInitialize()
✓ LMSFinish()
❗ Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
❗ State Management:
✓ LMSGetLastError()
❗ Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

=====

=====

❗ Test Identification Information:
Date: 17 เมษายน 2551 19:03:59
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set05.html

❗ Starting Self Test

❗ Loading the Sharable Content Object
❗ Attempting to Launch SCO

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมกรณศึกษาที่ 2 (ต่อ)

```

C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set05.html
i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set05.html
i SCO is searching for the API Adapter
✓ SCO was able to find the API Adapter
i LMSInitialize() has been invoked
✓ LMSInitialize() finished successfully
i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
✓ LMSGetValue() finished successfully
i LMSGetLastError() has been invoked
i Last Error: 0
✓ LMSGetLastError() finished successfully
i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
✓ LMSSetValue() finished successfully
i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
✓ LMSSetValue() finished successfully
i LMSSetValue(cmi.core.exit,suspend) has been invoked
✓ LMSSetValue() finished successfully
i LMSSetValue(cmi.core.session_time,00:00:02.21) has been invoked
✓ LMSSetValue() finished successfully
i LMSCommit() has been invoked
✓ LMSCommit() finished successfully
i LMSFinish() has been invoked
✓ LMSFinish() finished successfully
i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
✓ Find an LMS provided API Adapter
i Execution State:
✓ LMSInitialize()
✓ LMSFinish()
i Data Transfer:
✓ LMSGetValue()
✓ LMSSetValue()
✓ LMSCommit()
i State Management:
✓ LMSGetLastError()
i Data Model Support
✓ SCORM Run-Time Environment Data Model
✓ cmi.core.lesson_status
✓ cmi.core.exit
✓ cmi.core.session_time

-----

```

รูปที่ 1.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอกรมวิชาชีพที่ 2 (ต่อ)

```

=====
i Test Identification Information:
    Date: 17 มกราคม 2551 19:04:10
    SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set03.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set03.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
    C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set03.html

i SCO is searching for the API Adapter
    ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
    ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
    ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
    ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:02.03) has been invoked
    ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
    ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
    ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
    ✓ Find an LMS provided API Adapter
i Execution State:
    ✓ LMSInitialize()
    ✓ LMSFinish()
i Data Transfer:
    ✓ LMSGetValue()
    ✓ LMSSetValue()
    ✓ LMSCommit()
i State Management:
    ✓ LMSGetLastError()

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอรักรมกรณีศึกษาที่ 2 (ต่อ)

```

i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

=====

=====

i Test Identification Information:
Date: 17 เมษายน 2551 19:04:22
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set15.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set15.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set15.html

i SCO is searching for the API Adapter
  ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
  ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
  ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.session_time,00:00:01.57) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSCommit() has been invoked
  ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked
  ✓ LMSFinish() finished successfully

i SCO is no longer initialized

i SCORM 1.2 Run-Time Environment Conformant
i SCO-RTE1+Mandatory
i Features Supported:
i API Support
  ✓ Find an LMS provided API Adapter

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอรรถรมณีสึกษาที่ 2 (ต่อ)

```

i Execution State:
  ✓ LMSInitialize()
  ✓ LMSFinish()
i Data Transfer:
  ✓ LMSGetValue()
  ✓ LMSSetValue()
  ✓ LMSCommit()
i State Management:
  ✓ LMSGetLastError()
i Data Model Support
  ✓ SCORM Run-Time Environment Data Model
  ✓ cmi.core.lesson_status
  ✓ cmi.core.exit
  ✓ cmi.core.session_time

-----

-----

i Test Identification Information:
Date: 17 มกราคม 2551 19:04:32
SCO: C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set13.html

i Starting Self Test

i Loading the Sharable Content Object
i Attempting to Launch SCO
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set13.html

i Loading the Sharable Content Object
i Attempting to Launch SCO:
C:/ADL/TestSuite1_2_7/TestSuite/contentpackage/tempdir/PackageImport/set13.html

i SCO is searching for the API Adapter
  ✓ SCO was able to find the API Adapter

i LMSInitialize() has been invoked
  ✓ LMSInitialize() finished successfully

i LMSGetValue(cmi.core.lesson_status) has been invoked
i Value returned from LMS: [not attempted]
  ✓ LMSGetValue() finished successfully

i LMSGetLastError() has been invoked
i Last Error: 0
  ✓ LMSGetLastError() finished successfully

i LMSSetValue(cmi.core.lesson_status,incomplete) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.lesson_status,completed) has been invoked
  ✓ LMSSetValue() finished successfully

i LMSSetValue(cmi.core.exit,suspend) has been invoked
  ✓ LMSSetValue() finished successfully



i LMSSetValue(cmi.core.session_time,00:00:02.29) has been invoked
  ✓ LMSSetValue() finished successfully


i LMSCommit() has been invoked
  ✓ LMSCommit() finished successfully

i LMSFinish() has been invoked

```

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอรรถกรณศึกษาที่ 2 (ต่อ)

✓ LMSFinish() finished successfully
 ⓘ SCO is no longer initialized
 SCORM 1.2 Run-Time Environment Conformant
 SCO-RTE1+Mandatory
 ⓘ Features Supported:
 ⓘ API Support
 ✓ Find an LMS provided API Adapter
 ⓘ Execution State:
 ✓ LMSInitialize()
 ✓ LMSFinish()
 ⓘ Data Transfer:
 ✓ LMSGetValue()
 ✓ LMSSetValue()
 ✓ LMSCommit()
 ⓘ State Management:
 ✓ LMSGetLastError()
 ⓘ Data Model Support
 ✓ SCORM Run-Time Environment Data Model
 ✓ cmi.core.lesson_status
 ✓ cmi.core.ext
 ✓ cmi.core.session_time

 Package is SCORM Version 1.2 ADLCP-PIF1 Conformant
 ⓘ Successful outcome of this test does not constitute ADL Certification unless the test was conducted by an ADL Certified Auditor.

รูปที่ ข.2 ผลลัพธ์การทดสอบความสอดคล้องกับข้อกำหนดสกอ รมกรณีศึกษาที่ 2 (ต่อ)

ประวัติผู้เขียนวิทยานิพนธ์

นายชวลิต เกียรติमानะโรจน์ เกิดเมื่อวันที่ 21 พฤศจิกายน พ.ศ. 2520 ที่จังหวัดขอนแก่น สำเร็จการศึกษาระดับปริญญาบัณฑิตหลักสูตรวิทยาศาสตรบัณฑิต สาขาวิชาวิทยาการคอมพิวเตอร์ จากมหาวิทยาลัยขอนแก่น เมื่อ พ.ศ.2542 หลังจากสำเร็จการศึกษาได้ทำงานในตำแหน่งโปรแกรมเมอร์ให้กับบริษัท เบนซ์มาร์ค จำกัด เป็นระยะเวลาประมาณ 1 ปี ต่อมาได้ย้ายไปทำงานในตำแหน่งโปรแกรมเมอร์เพื่อพัฒนาเว็บไซต์ร้านค้าเกิดดอกคอม และพัฒนาระบบอิเล็กทรอนิกส์ให้กับบริษัท ยูไนเต็ดคอมมูนิเคชั่น อินดัสตรี จำกัด (มหาชน) เป็นระยะเวลาประมาณ 5 ปี หลังจากนั้นได้ย้ายไปทำงานในตำแหน่งโปรแกรมเมอร์อาวุโสให้กับ บริษัท แร่เพลย์ดอกคอม จำกัด เป็นระยะเวลาประมาณ 1 ปี ปัจจุบันได้เข้าทำงานที่บริษัทหลักทรัพย์ บัวหลวง จำกัด (มหาชน) และได้ศึกษาต่อในหลักสูตรวิทยาศาสตรมหาบัณฑิต สาขาวิชาวิทยาศาสตร์คอมพิวเตอร์ ณ จุฬาลงกรณ์มหาวิทยาลัย เมื่อปี พ.ศ.2547