## **UNIT TESTING**

## **Class ActivityControllerTest**

#### Unit Test Case (UTC01): testEditActivity (): Activity

**Description**

Test testEditActivity by trying to edit activity information in the database system**.**

**Test Function**

public ActionResult EditActivity(Activity a)

**Test Data**

\* Activity a is in database.

\* newActivity a is for testing edit Activity ID 1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Object Name** | **Id** | **Name** | **Description** | **Date** |
| a | 1 | “Make Merit” | “New year celebration for Thai people” | 14/04/2015 |
| newActivity a | 1 | "Sprinkle Water" | "Sprinkle water on the Buddha image" | 15/04/2015 |

**Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expected Results** |
| **Type: Activity object** | **Type: Activity object** |
| 1 | Test update with all correct data | newA | newA |
| 2 | Test update with no identifier | newB | Can’t edit |
| 3 | Test update with null | Null | Can’t edit |

#### Unit Test Case (UTC02): testAddActivity () : Activity

**Description**

Test testAddActivitymethod by inputting activity information to the database system

**Test Function**

public ActionResult AddActivity(Activity a)

**Test Data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Object Name** | **Id** | **Name** | **Description** | **Date** |
| a | 1 | "Sprinkle Water" | "Sprinkle water on the Buddha image" | 15/04/2015 |

**Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expected Results** |
| **Type: Activity object** | **Type: Activity object** |
| 1 | Test with all parameters have input the data | a | a |
| 2 | Test with input duplicate data | a | Can’t Add |
| 3 | Test with null | Null | Can’t Add |

#### Unit Test Case (UTC03): testDeleteActivity() : Activity

**Description**

Test testDeleteActivity by trying to delete activitity information in the database system**.**

**Test Function**

public ActionResult DeleteActivity(int id)

**Test Data**

\* Activity a is in database

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Object Name** | **Id** | **Name** | **Description** | **Date** |
| a | 1 | "Sprinkle Water" | "Sprinkle water on the Buddha image" | 15/04/2015 |

**Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expected Results** |
| **Type: Integer** | **Type: Activity** |
| 1 | Test delete activity with correct activity id. | 1 | True |
| 2 | Test delete user which no contains in database. | 10 | False |

## **Class QuestionControllerTest**

#### Unit Test Case (UTC04): testPostQuestion () : Question

**Description**

Test testPostQuestionmethod by inputting question information to the database system

**Test Function**

public ActionResult PostQuestion(Question q)

**Test Data**

|  |  |  |  |
| --- | --- | --- | --- |
| **Object Name** | **Id** | **QuestionInfo** | **Date** |
| q | 1 | "What is the book of Buddha" | 15/04/2015 |

**Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expected Results** |
| **Type: Activity object** | **Type: Activity object** |
| 1 | Test with all parameters have input the data | q | Q |
| 2 | Test with input duplicate data | q | Can’t Post |
| 3 | Test with null | Null | Can’t Post |

#### Unit Test Case (UTC05): testEditQuestion (): Question

**Description**

Test testEditQuestion by trying to edit question information in the database system**.**

**Test Function**

public ActionResult EditQuestion(Question q)

**Test Data**

\* Question q is in database.

\* newQuestion q is for testing edit Question q.

|  |  |  |  |
| --- | --- | --- | --- |
| **Object Name** | **Id** | **QuestionInfo** | **Date** |
| q | 1 | "What is the book of Buddha" | 15/04/2015 |
| newQuestion q | 1 | "What is the book of Buddhist that written by the higher monk" | 16/04/2015 |

**Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expected Results** |
| **Type: Activity object** | **Type: Activity object** |
| 1 | Test update with all correct data | newQ | newQ |
| 2 | Test update with no identifier | newQ | Can’t edit |
| 3 | Test update with null | Null | Can’t edit |

#### Unit Test Case (UTC06): testDeleteQuestion() : Question

**Description**

Test testDeleteQuestion by trying to delete question information in the database system**.**

**Test Function**

public ActionResult DeleteQuestion(int id)

**Test Data**

\* Question q is in database

|  |  |  |  |
| --- | --- | --- | --- |
| **Object Name** | **Id** | **QuestionInfo** | **Date** |
| newQuestion q | 1 | "What is the book of Buddhist that written by the higher monk" | 16/04/2015 |

**Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expected Results** |
| **Type: Integer** | **Type: Question** |
| 1 | Test delete activity with correct activity id. | 1 | True |
| 2 | Test delete user which no contains in database. | 10 | False |