**Temple Web Application System**

Test Plan

By

**Ms. Thitiworada Thongprasert 552115019**

**Ms. Pimpaporn Chaichompoo 552115052**

**Mr. Sornkom Yoohat 552115068**

**Ms. Supakarn Graisaard 552115072**

Department of Software Engineering

College of Arts, Media and Technology

Chiang Mai University

# Chapter One | Introduction

**Test Plan and Test Procedure**

# 1.1 Test Objectives

The objective of testing Temple Web Application is:

1. Detect all of bugs or defects.
2. Fix the bugs or defects.
3. Exceed user requirements.
4. Non-functional systems are correctness.
5. Functional systems are correctness.
6. Reduce the rejecting project
7. Reduce the cost of project

# Test Scope

The scope of test plan document is testing function of Temple Web Application. Then, Temple Web Application will test the uniting and system testing and record the test result in the test record.

# Test Duration

|  |  |
| --- | --- |
| **Progress** | **Date and Duration** |
| Progress Report I | **Perform date:** 15th May 2015– 16th May 2015 (Unit test, System test)  **Duration:** 2 days |
| Final Progress Report | **Perform date:** 9th May 2015– 10th May 2015  (Unit test, System test)  **Duration:** 2 days |

# Test Responsibility

|  |  |
| --- | --- |
| **Item** | **Responsibility** |
| Unit test of Web Application | TT |
| Record unit test of Web Application | PC |
| System test of Web Application | SY |
| Record system test of Web Application | SG |
|  |  |

# Test Strategy

Temple Web Application test strategy will be follow by:

1. Design the test case.
2. Prepare the data for testing.
3. Determine the expected result of test.
4. Do the test for each test case.
5. Record the result on the test record.

# Result of Testing

In the test record the test result will separate into two parts which are:

1. Actual output that are performed by each test case.
2. Pass/Fail criteria:
   1. Pass: The result of actual result is same as expected output.
   2. Fail: The result of actual result is not same as expected output

**Test Environment**

# Hardware

* Computers

SONY SVE151A11W

* **Processor:** Intel Core i5-2450M 2.5 GHz
* **Memory:** 4.00 GB
* **Graphics:** NVIDIA GEFORCE 610M 2GB **// ไรว่ะ**
* **Operating System:** Windows 7 Home Premium

SONY SVE141A11W

* **Processor:** Intel Core i7-3612QM 2.1 GHz
* **Memory:** 4.00 GB
* **Graphics:** NVDIA OPTIMUS
* **Operating System:** Windows 7 Uitimate

# Software

* Google Chrome Version 20.0 or later
* IntelliJ IDEA 14.0.2

# Chapter Two | Unit test

|  |  |
| --- | --- |
| Unit Test | Test Feature |
| UT01 | Class UserService : getUser() : List<User> |
| UT02 | Class UserService : getUserById(long id) : User |
| UT03 | Class UserService : addUser(user : User) : User |
| UT04 | Class UserService : editUser(user : User) : User |
| UT05 | Class UserService : verifyUsernamePassword(String username, String password) : User |
| UT06 | Class User : getUserId() : String |
| UT07 | Class User : setUserId(userId : String) : void |
| UT08 | Class User : getF\_name() : String |
| UT09 | Class User : setF\_name(f\_name : String) : void |
| UT10 | Class User : getL\_name() : String |
| UT11 | Class User : setL\_name(l\_name : String) : void |
| UT12 | Class User : getUsername() : String |
| UT13 | Class User : setUsername(username : String) : void |
| UT14 | Class User : getPassword() : String |
| UT15 | Class User : setPassword(password : String) : void |
| UT16 | Class User : getTypeUser() : String |
| UT17 | Class User : setTypeUser(typeUser : String) : void |
| UT18 | Class EditHomePage : verifySizeOfPicture() |
| UT19 | Class EditHomePage : verifyTypeOfPicture() |
| UT20 | Class QuestionService : getQuestion() : List<Question> |
| UT21 | Class QuestionService : getQuestionById(questionId : String) : Question |
| UT22 | Class QuestionService : addQuestion(question : Question) : Question |
| UT23 | Class QuestionService : deleteQuestion(question : Question) : Question |
| UT24 | Class QuestionService : addAnswer(answer : Answer) : Answer |
| UT25 | Class QuestionService : getUserQuestion(username : String): List<Question> |
| UT26 | Class QuestionRepository : findQuestionByUserQuestionLike(username : String) : List<Question> |
| UT27 | Class Question : getQuestionId() : String |
| UT28 | Class Question : setQuestionId(questionId : String) : void |
| UT29 | Class Question : getQuestionDes() : String |
| UT30 | Class Question : setQuestionDes(questionDes : String) : void |
| UT31 | Class Question : getAnswerId() : String |
| UT32 | Class Question : setAnswerId(answerId : String) : void |
| UT33 | Class Question : getAnswerDes() : String |
| UT34 | Class Question : setAnswerDes(answerDes : String) : void |
| UT35 | Class HistoryService : getHistory() : List<History> |
| UT | Class HistoryService : addHistory(history : History) : History |
| UT | Class HistoryService : updateHistory(history : History) : History |
| UT | Class History : getHistoryDes() : String |
| UT | Class History : setHistoryDes(historyDes : String) : void |
| UT | Class History : getPictureHistoryLocation() : String |
| UT | Class History : setPictureHistoryLocation(historyPictureLocation : String) : void |
| UT | Class editHistory page : verifyTypeOfPicture() |
| UT | Class editHistory page : verifySizeOfPicture() |
| UT | Class NewsService : getNews() : List<News> |
| UT | Class NewsService : updateNews(news : News) : News |
| UT | Class NewsService : addNews(news : News) : News |
| UT | Class NewsService : deletedNews(Long newsId) : News |
| UT | Class News : getNewsId() : Long |
| UT | Class News : setNewsId(newsId : Long) : void |
| UT | Class News : getNewsName() : String |
| UT | Class News : setNewsName(newsName : String) : void |
| UT | Class News : getNewsDate() : date |
| UT | Class News : setNewsDate(newsDate : date) : void |
| UT | Class News : getNewsTime() : time |
| UT | Class News : setNewsTime(newsTime : time) : void |
| UT | Class News : getNewsPlace() : String |
| UT | Class News : setNewsPlace (newsPlace : String) : void |
| UT | Class News : getPictureHistoryLocation() : String |
| UT | Class News : setPictureHistoryLocation(historyPictureLocation : String) : void |
| UT | Class editNews page : verifySizeOfPicture() |
| UT | Class editNews page : verifyTypeOfPicture() |
| UT | Class ContactService: getContact() : List<Contact> |
| UT | Class ContactService: editContact(contact: Contact) : Contact |
| UT | Class Contact: getContactID() : Long |
| UT | Class Contact: setContactID(contactID: Long) : void |
| UT | Class Contact: getContactTel() : String |
| UT | Class Contact: setContactTel(contactTel: String) : void |
| UT | Class Contact: getContactPlace() : String |
| UT | Class Contact: setContactPlace(contactPlace: String) : void |
| UT | Class Contact: getContactFacebook() : String |
| UT | Class Contact: setContactFacebook() : void |
| UT | Class GalleryService: getGallery() : List<Gallery> |
| UT | Class GalleryService: getGallery(id : Long) : Gallery |
| UT | Class GalleryService: getPicture(picture : Picture) : Picture |
| UT | Class GalleryService: addGallery(gallery : Gallery) : Gallery |
| UT | Class GalleryService: addPicture(picture : Picture) : Picture |
| UT | Class GalleryService: deletePicture(picture : Picture) : Picture |
| UT | Class GalleryService: updatePicture(picture : Picture) : Picture |
| UT | Class GalleryService: editGallery(gallery : Gallery) : Gallery |
| UT | Class GalleryAdminUI: verifySizeOfPicture() : void |
| UT | Class GalleryAdminUI: verifyTypeOfPicture() : void |

**UT01** Class UserService: getUser() : List<User>  
**Description** : Test for getting a list of all user account. **Prerequisites or Test input**: The mock objects are user1 and user2 in Appendix A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get object which not empty | {userId= 1, f\_name = ‘thiti’, , l\_name = ‘wora’,username= ‘Se19@vr.camt.info’, password= ‘1234’, role = ‘admin’},{userId=2, f\_name = ‘pim’, , l\_name = ‘chai’,username= ‘Se52@vr.camt.info’, password= ‘5678’, role = ‘register’},  {userId= 3, f\_name = ‘sorn’, , l\_name = ‘yu’,username= ‘Se68@vr.camt.info’, password= ‘aaaa’, role = ‘user’} |  |  |
| 02 | Test get object which is empty | Return null |  |  |

**UT02** Class UserService: getUserById(long id) : User  
**Description** : Test for getting user’s information by id from the database **Prerequisites or Test input**: The mock objects are user1 and user2 in Appendix A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get user’s information by id | userId = 1 | {userId= 1, f\_name = ‘thiti’, , l\_name = ‘wora’,username= ‘Se19@vr.camt.info’, password= ‘1234’, role = ‘admin’} |  |  |
| 02 | Test get user’s information by id | userId = 1,  userId = 2,  userId = 3 | {userId= 1, f\_name = ‘thiti’, , l\_name = ‘wora’,username= ‘Se19@vr.camt.info’, password= ‘1234’, role = ‘admin’},{userId=2, f\_name = ‘pim’, , l\_name = ‘chai’,username= ‘Se52@vr.camt.info’, password= ‘5678’, role = ‘register’},  {userId= 3, f\_name = ‘sorn’, , l\_name = ‘yu’,username= ‘Se68@vr.camt.info’, password= ‘aaaa’, role = ‘user’} |  |  |
| 03 | Test data which is null object | Null | Return null |  |  |

**UT03** Class UserService: addUser(user : User) : User  
**Description** : Test for add user info into the database. **Return** : The result will return user object in the database

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test adding data which is pass | { f\_name = “thiti”, l\_name = “wora”,username= “Se19@vr.camt.info”, password= “1234”, role = “admin”} | {userId= 1, f\_name = ‘thiti’, , l\_name = ‘wora’,username= ‘Se19@vr.camt.info’, password= ‘1234’, role = ‘admin’} |  |  |
| 02 | Test adding data which is pass | { f\_name = “pim” , l\_name = “chai”,username= “Se52@vr.camt.info”, password= “5678”, role = “register”} | {userId=2, f\_name = ‘pim’, , l\_name = ‘chai’,username= ‘Se52@vr.camt.info’, password= ‘5678’, role = ‘register’} |  |  |
| 03 | Test data which is duplicate object | {userId= 1, f\_name = “thiti”, l\_name = “wora”,username= “Se19@vr.camt.info”, password= “1234”, role = “admin”} | null |  |  |
| 04 | Test data which is empty object | {} | null |  |  |
| 05 | Test data which is null object | {null} | null |  |  |

**UT04** Class UserService: editUser(user : User) : User **Description** : Test for edit user from the database **Prerequisites or Test input**: The mock objects are user1 and user2 in Appendix A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test edit data which pass data | {f\_name = “aaa”,  l\_name = “bbb”,  username = “se50@vr.camt.info”,  password = “1235”} | {userId=1,f\_name = ‘aaa’,  l\_name = ‘bbb’,  username = ‘se50@vr.camt.info’,  password = ‘1235’} |  |  |
| 02 | Test edit data which null data | {null} | null |  |  |

**UT05** Class UserService: verifyUsernamePassword(String username, String password) : User  
**Description** : Test for verify username and password are matching from the database

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 |  |  |  |  |  |
| 02 |  |  |  |  |  |

**UT06** Class User: getUserId() : String  
**Description** : Test for getting user id that is set by setUserId(userId : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get user id which not empty | {1,2,3} |  |  |
| 02 | Test get user id which is empty data | Return null |  |  |

**UT07** Class User : setId(userId : String) : void  
**Description** : Test for setting user id.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set user id which is pass | userId = 1 | userId = 1 |  |  |
| 02 | Test set user id which is pass | userId = 2 | userId = 2 |  |  |
| 03 | Test set user id which is pass | userId = 3 | userId = 3 |  |  |
| 04 | Test set user id which is not pass | userId = “0” | The system is error with inputting wrong type. |  |  |
| 05 | Test data which is empty object | {} | Return null |  |  |

**UT08** Class User: getF\_name() : String  
**Description** : Test for getting fist name that is set by setF\_name(f\_name : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get first name which not empty | {‘thiti’,‘pim’,‘sorn’ } |  |  |
| 02 | Test get first name which is empty data | Return null |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set first name which is pass | f\_name = “thiti” | f\_name = ‘thiti’ |  |  |
| 02 | Test set first name which is pass | f\_name = “pim” | f\_name = ‘pim’ |  |  |
| 03 | Test set first name which is pass | f\_name = “sorn” | f\_name = ‘sorn’ |  |  |
| 04 | Test set first name which is not pass | f\_name = 54 | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT09** Class User: setF\_name(f\_name : String) : void **Description** : Test for setting fist name.

**UT10** Class User: getL\_name() : String  
**Description** : Test for getting last name that is set by setL\_name(l\_name : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get last name which not empty | {‘wora’,‘chai’,‘yu’} |  |  |
| 02 | Test get last name which is empty data | Return null |  |  |

**UT11** Class User: setL\_name(l\_name : String) : void  
**Description** : Test for setting last name.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set last name which is pass | f\_name = “wora” | f\_name = ‘wora’ |  |  |
| 02 | Test set last name which is pass | f\_name = “chai” | f\_name = ‘chai’ |  |  |
| 03 | Test set last name which is pass | f\_name = “yu” | f\_name = ‘yu’ |  |  |
| 04 | Test set last name which is not pass | f\_name = 54 | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT12** Class User: getUsername() : String  
**Description** : Test for getting username that is set by setUsername(username : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get username which not empty | {‘Se19@vr.camt.info’, ‘Se52@vr.camt.info’, ‘Se68@vr.camt.info’} |  |  |
| 02 | Test get username which is empty data | Return null |  |  |

**UT13** Class User: setUsername(username : String) : void  
**Description** : Test for setting username.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set username which is pass | username = “se19@vr.camt.info” | username = ‘se19@vr.camt.info’ |  |  |
| 02 | Test set username which is pass | username = “se52@vr.camt.info” | username = ‘se52@vr.camt.info’ |  |  |
| 03 | Test set username which is pass | username = “se68@vr.camt.info” | username = ‘se68@vr.camt.info’ |  |  |
| 04 | Test set username which is not pass | username = 12 | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT14** Class User: getPassword() : String  
**Description** : Test for getting password that is set by setPassword(password : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get password which not empty | {‘1234’, ‘5678’,‘aaaa’} |  |  |
| 02 | Test get password which is empty data | Return null |  |  |

**UT15** Class User: setPassword(password : String) : void  
**Description** : Test for setting password.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set password which is pass | password = “1234” | password = ‘1234’ |  |  |
| 02 | Test set password which is pass | password = “5678” | password = ‘5678’ |  |  |
| 03 | Test set password which is pass | password = “aaaa” | password = ‘aaaa’ |  |  |
| 04 | Test set password which is not pass | password = 1224 | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT16** Class User: getTypeUser() : String  
**Description** : Test for getting type of user that is setTypeUser(typeUser : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get typeUser which not empty | {‘admin’,‘register’, ‘user’} |  |  |
| 02 | Test get typeUser which is empty data | Return null |  |  |

**UT17** Class User: setTypeUser(typeUser : String) : void  
**Description** : Test for setting type of user.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set typeUser which is pass | typeUser = “admin” | typeUser = ‘admin’ |  |  |
| 02 | Test set typeUser which is pass | typeUser = “register” | typeUser = ‘register’ |  |  |
| 03 | Test set typeUser which is pass | typeUser = “user” | typeUser = ‘user’ |  |  |
| 04 | Test set typeUser which is not pass | typeUser = user | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test set typeUser which is empty data | Null | Return null |  |  |

**UT19** Class EditHomePage : verifySizeOfPicture() **Description** : Test for verifying size of picture.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | historyPictureLocation = “hello.jpg” with size 240\*480 | historyPictureLocation = hello.jpg with size 240\*480 |  |  |
| 02 | historyPictureLocation = “hello.jpg” with size 600\*800 | historyPictureLocation = hello.jpg with size 600\*800 |  |  |
| 03 | historyPictureLocation = “hello.jpg” with size over 600\*800 | The system is error with inputting wrong type.  Return null |  |  |
| 04 | Null | Return null |  |  |

**UT18** Class EditHomePage : verifyTypeOfPicture() **Description** : Test for verifying type of picture.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | historyPictureLocation = “hello.jpg” | historyPictureLocation = hello.jpg |  |  |
| 02 | historyPictureLocation = “hello.png” | The system is error with inputting wrong type.  Return null |  |  |
| 03 | historyPictureLocation = “hello.gif” | The system is error with inputting wrong type.  Return null |  |  |
| 04 | Null | Return null |  |  |

**UT** Class QuestionService : getQuestion() : List<Question>  
**Description** : Test for getting a list of all questions. **Prerequisites or Test input**: The mock objects are question1 and question2 in Appendix A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get object which not empty | {questionId=1,questionDes= ‘What date?’},{ questionId=2,questionDes= ‘What time?’} |  |  |
| 02 | Test get object which is empty | null |  |  |

**UT** Class QuestionService : getQuestionById(questionId : String) : Question  
**Description** : Test for getting questions by id from the database **Prerequisites or Test input**: The mock objects are question1 and question2 in Appendix A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get questions by id | questionId = 1 | {questionId=1,questionDes= ‘What date?’} |  |  |
| 02 | Test get questions by id | questionId = 1,  questionId = 2, | {questionId=1,questionDes= ‘What date?’},{ questionId=2,questionDes= ‘What time?’} |  |  |
| 03 | Test data which is null object | Null | Return null |  |  |

**UT** Class QuestionService : addQuestion(question : Question) : Question  
**Description** : Test for adding questions into the database.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test adding data which is pass | questionDes= “What date?” | {questionId=1,questionDes= ‘What date?’} |  |  |
| 02 | Test adding data which is pass | questionDes= “What time?” | {questionId=2,questionDes= ‘What time?’} |  |  |
| 03 | Test data which is duplicate object | questionDes= “What date?” | {questionId=3,questionDes= ‘What date?’} |  |  |
| 04 | Test data which is empty object | {} | Return null |  |  |
| 05 | Test data which is null object | {null} | Return null |  |  |

**UT** Class QuestionService : deleteQuestion(question : Question) : Question **Description** : Test for deleting questions from the database

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test deleting data which is pass | questionId = 1 | {questionId=1,questionDes= ‘What date?’} deleted |  |  |
| 02 | Test deleting data which is null object | Null | Return null |  |  |

**UT** Class QuestionService : addAnswer(answer : Answer) : Answer  
**Description** : Test for adding answers into the database.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test adding data which is pass | answerDes = “yes” | answerId = 1 |  |  |
| 02 | Test adding data which is pass | answerDes = “on 25th” | answerId = 2 |  |  |
| 03 | Test data which is null object | Null | Return null |  |  |

**UT** Class QuestionService : getUserQuestion(username : String): List<Question> **Description** : Test for getting a list of all questions from received username**.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Input | Expected Output | Actual Output | Pass/Fail |
| 01 |  | . |  |  |
| 02 |  |  |  |  |
| 03 | Null | Return null |  |  |

**UT** Class QuestionRepository : findQuestionByUserQuestion(username : String) : List<Question>  
**Description** : Test for finding questions by username.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test input data which found | username = “se19@vr.camt.info” | {questionId=1,questionDes= ‘What date?’} |  |  |
| 02 | Test input data which not found | username = “se57@vr.camt.info” | null |  |  |

**UT** Class Question: getQuestionId() : String  
**Description** : Test for getting question id that is set by setQuestionId(questionId : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get question id which not empty | {1,2} |  |  |
| 02 | Test get question id which is empty data | Return null |  |  |

**UT** Class Question: setQuestionId(questionId : String) : void  
**Description** : Test for setting question id.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set question id which is pass | questionId = 1 | questionId = 1 |  |  |
| 02 | Test set question id which is pass | questionId = 2 | questionId = 2 |  |  |
| 04 | Test set question id which is not pass | questionId = “0” | The system is error with inputting wrong type. |  |  |
| 05 | Test data which is empty object | {} | Return null |  |  |

**UT** Class Question: getQuestionDes() : String  
**Description** : Test for getting question description that is set by setQuestionDes(questionDes : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get question description which not empty | { ‘What date?’, ‘ What time? ‘} |  |  |
| 02 | Test get question description which is empty data | Return null |  |  |

**UT** Class Question: setQuestionDes(questionDes : String) : void  
**Description** : Test for setting question description.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set question description which is pass | questionDes = “ What date?” | questionDes = ‘ What date?’ |  |  |
| 02 | Test set question description which is pass | questionDes = “ What time?” | questionDes = ‘ What time?’ |  |  |
| 04 | Test set question description which is not pass | questionDes = 54 | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT** Class Question: getAnswerId() : String  
**Description** : Test for getting answer id that is set by setAnswerId(answerId : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get answer id which not empty | {1,2} |  |  |
| 02 | Test get answer id which is empty data | Return null |  |  |

**UT** Class Question: setAnswerId(answerId : String) : void **Description** : Test for setting answer id.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set answer id which is pass | answerId = 1 | answerId = 1 |  |  |
| 02 | Test set answer id which is pass | answerId = 2 | answerId = 2 |  |  |
| 04 | Test set answer id which is not pass | answerId = “0” | The system is error with inputting wrong type. |  |  |
| 05 | Test data which is empty object | {} | Return null |  |  |

**UT** Class Question : getAnswerDes() : String  
**Description** : Test for getting answer description that is set by setAnswerDes(answerDes : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get answer description which not empty | { ‘On 25th?’, ‘14:00‘} |  |  |
| 02 | Test get answer description which is empty data | Return null |  |  |

**UT** Class Question : setAnswerDes(answerDes : String) : void **Description** : Test for setting answer description.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set answer description which is pass | answerDes = “ On 25th?” | answerDes = ‘On 25th?’ |  |  |
| 02 | Test set answer description which is pass | answerDes = “14:00” | answerDes = ‘14:00’ |  |  |
| 04 | Test set answer description which is not pass | answerDes = 54 | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT** Class HistoryService : getHistory() : List<History>  
**Description** : Test for getting history objects from database. **Prerequisites or Test input**: The mock objects are history1 in Appendix A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get object which not empty | { **historyDes = ‘Wat Chedi Luang** built in 1928’} |  |  |
| 02 | Test get object which is empty | Return null |  |  |

**UT** Class HistoryService : addHistory() : History  
**Description** : Test for adding history into the database.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test adding data which is pass | { **historyDes = “Wat Chedi Luang** built in 1928”} | { **historyDes = ‘Wat Chedi Luang** built in 1928’} |  |  |
| 03 | Test data which is duplicate object | { **historyDes = “Wat Chedi Luang** built in 1928”} | null |  |  |
| 04 | Test data which is empty object | {} | null |  |  |
| 05 | Test data which is null object | {null} | null |  |  |

**UT** Class HistoryService : updateHistory(history : History) : History  
**Description** : Test for updating history into the database. **Prerequisites or Test input**: The mock objects are history1 in Appendix A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test edit data which pass data | { **historyDes = “Wat Chedi Luang** built in 1900”} | { **historyDes = ‘Wat Chedi Luang** built in 1900’} |  |  |
| 02 | Test edit data which null data | {null} | null |  |  |

**UT** Class History : getHistoryDes(): String  
**Description** : Test for getting history description that is set by setHistoryDes() : void.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get history description which not empty | { **historyDes = ‘Wat Chedi Luang** built in 1900’} |  |  |
| 02 | Test get history description which is empty data | Return null |  |  |

**UT** Class History : setHistoryDes(historyDes : String) : void  
**Description** : Test for setting history description.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set history description which is pass | **historyDes = “Wat Chedi Luang** built in 1900” | **historyDes = ‘Wat Chedi Luang** built in 1900’ |  |  |
| 04 | Test set history description which is not pass | historyDes = 1980 | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT** Class History : getPictureHistoryLocation() : String  
**Description** : Test for getting location of the picture that is set by setPictureHistoryLocation(historyPictureLocation : String) : void.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get history description which not empty | {history.jpg} |  |  |
| 02 | Test get history description which is empty data | Return null |  |  |

**UT** Class History : setPictureHistoryLocation(historyPictureLocation : String) : void  
**Description** : Test for setting history description.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set history description which is pass | historyPictureLocation = “hello.jpg” | historyPictureLocation = hello.jpg |  |  |
| 02 | Test set history description which is not pass | historyPictureLocation = hello.jpg | The system is error with inputting wrong type.  Return null |  |  |
| 03 | Test data which is empty object | Null | Return null |  |  |

**UT** Class NewsService : getNews() : List<News>  
**Description** : Test for get a list of all news. **Prerequisites or Test input**: The mock objects are news1 and news2 in Appendix A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get object which not empty | { newsId = 1, newsName = ‘**Magha Puja Day**’, newsDate = 4/03/2558, newsTime = 14:52, newsPlace = ‘[Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)’, newsPictureLocation = ‘554.jpg’},{ newsId = 2, newsName = ‘The Buddhist Lent Day’, newsDate = 5/05/2558, newsTime = 10:00, newsPlace = ‘[Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)’, newsPictureLocation = ‘100.jpg’} |  |  |
| 02 | Test get object which is empty | Return null |  |  |

**UT** Class NewsService : addNews(news : News) : News  
**Description** : Test for add news into the database. **Return** : The result will return user object in the database

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test adding data which is pass | { newsName = “**Magha Puja Day**”, newsDate = 4/03/2558, newsTime = 14:52, newsPlace = “[Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)”, newsPictureLocation = “554.jpg”} | { newsId = 1, newsName = ‘**Magha Puja Day**’, newsDate = 4/03/2558, newsTime = 14:52, newsPlace = ‘[Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)’, newsPictureLocation = ‘554.jpg’} |  |  |
| 02 | Test adding data which is pass | { newsName = “The Buddhist Lent Day”, newsDate = 5/05/2558, newsTime = 10:00, newsPlace = “[Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)”, newsPictureLocation = “100.jpg”} | { newsId = 2, newsName = ‘The Buddhist Lent Day’, newsDate = 5/05/2558, newsTime = 10:00, newsPlace = ‘Wat Chedi Luang’, newsPictureLocation = ‘100.jpg’} |  |  |
| 03 | Test data which is duplicate object | { newsName = “**Magha Puja Day**”, newsDate = 4/03/2558, newsTime = 14:52, newsPlace = “[Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)”, newsPictureLocation = “554.jpg”} | null |  |  |
| 04 | Test data which is empty object | {} | null |  |  |
| 05 | Test data which is null object | {null} | null |  |  |

**UT** Class NewsService : deletedNews(Long newsId) : News **Description** : Test for delete news from the database **Prerequisites or Test input**: The mock objects are news1 and news2 in Appendix A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test deleting data which is pass | newsId = 1 | { newsId = 1, newsName = ‘**Magha Puja Day**’, newsDate = 4/03/2558, newsTime = 14:52, newsPlace = ‘[Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)’, newsPictureLocation = ‘554.jpg’}deleted |  |  |
| 02 | Test deleting data which is null object | Null | Return null |  |  |

**UT** Class News : getNewsId() : Long   
**Description** : Test for getting news id that is set by setNewsId(newsId : Long) : void.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get news id which not empty | {1,2} |  |  |
| 02 | Test get question id which is empty data | Return null |  |  |

**UT** Class News : setNewsId(newsId : Long) : void **Description** : Test for setting news id.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set news id which is pass | newsId = 1 | newsId = 1 |  |  |
| 02 | Test set news id which is pass | newsId = 2 | newsId = 2 |  |  |
| 04 | Test set news id which is not pass | newsId = “0” | The system is error with inputting wrong type. |  |  |
| 05 | Test data which is empty object | {} | Return null |  |  |

**UT** Class News : getNewsName() : String  
**Description** : Test for getting news name that is set by setNewsName(newsName : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get news name which not empty | {‘**Magha Puja Day**’, ‘The Buddhist Lent Day’ } |  |  |
| 02 | Test get news name which is empty data | Return null |  |  |

**UT** Class News : setNewsName(newsName : String) : void  
**Description** : Test for setting news name.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set news name which is pass | newsName =  **“Magha Puja Day**” | newsName = ‘**Magha Puja Day**’ |  |  |
| 02 | Test set news name which is pass | newsName = “The Buddhist Lent Day” | newsName = ‘The Buddhist Lent Day’ |  |  |
| 04 | Test set news name which is not pass | newsName = 54 | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT** Class News : getNewsDate() : date  
**Description** : Test for getting news date that is set by setNewsDate(newsDate : date) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get news date which not empty | { 4/03/2558, 5/05/2558} |  |  |
| 02 | Test get news date which is empty data | Return null |  |  |

**UT** Class News : setNewsDate(newsDate : date) : void  
**Description** : Test for setting news date.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set news date which is pass | newsDate = 4/03/2558 | newsDate = 4/03/2558 |  |  |
| 02 | Test set news date which is pass | newsDate = 5/05/2558 | newsDate = 5/05/2558 |  |  |
| 04 | Test set news date which is not pass | newsDate = “Monday 2th may” | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT** Class News : getNewsTime() : time  
**Description** : Test for getting news time that is set by setNewsTime(newsTime : time) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get news time which not empty | { 14:52, 10:00} |  |  |
| 02 | Test get news time which is empty data | Return null |  |  |

**UT** Class News : setNewsTime(newsTime : time) : void  
**Description** : Test for setting news time.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set news time which is pass | newsTime = 14:52 | newsTime = 14:52 |  |  |
| 02 | Test set news time which is pass | newsTime = 10:00 | newsTime = 10:00 |  |  |
| 04 | Test set news time which is not pass | newsTime = 2pm | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT** Class News : getNewsPlace() : String  
**Description** : Test for getting news place that is set by setNewsPlace (newsPlace : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get news place which not empty | {‘[Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)’,’ [Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)’} |  |  |
| 02 | Test get news place which is empty data | Return null |  |  |

**UT** Class News : setNewsPlace (newsPlace : String) : void  
**Description** : Test for setting news place.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set news place which is pass | newsPlace = “[Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)” | newsPlace = ‘[Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY)’ |  |  |
| 04 | Test set news place which is not pass | newsPlace = [Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY) | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT** Class News : getPictureNewsLocation() : String  
**Description** : Test for getting history picture that is setPictureNewsLocation(newsPictureLocation : String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get news picture which not empty | {554.jpg,100.jpg} |  |  |
| 02 | Test get news picture which is empty data | Return null |  |  |

**UT** Class News : setPictureNewsLocation(newsPictureLocation : String) : void  
**Description** : Test for setting news picture.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set news picture which is pass | newsPictureLocation = “554.jpg” | newsPictureLocation = ‘554.jpg’ |  |  |
| 02 | Test set news picture which is pass | newsPictureLocation = “100.jpg” | newsPictureLocation  = ‘100.jpg’ |  |  |
| 04 | Test set news picture which is not pass | newsPictureLocation = 54 | The system is error with inputting wrong type.  Return null |  |  |
| 05 | Test data which is empty object | Null | Return null |  |  |

**UT** Class EditNews : verifySizeOfPicture() **Description** : Test for verifying size of picture.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | newsPictureLocation = “hello.jpg” with size 240\*480 | newsPictureLocation = hello.jpg with size 240\*480 |  |  |
| 02 | newsPictureLocation = “hello.jpg” with size 600\*800 | newsPictureLocation = hello.jpg with size 600\*800 |  |  |
| 03 | newsPictureLocation = “hello.jpg” with size over 600\*800 | The system is error with inputting wrong type.  Return null |  |  |
| 04 | Null | Return null |  |  |

**UT** Class EditNews : verifyTypeOfPicture() **Description** : Test for verifying type of picture.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | newsPictureLocation = “hello.jpg” | newsPictureLocation = hello.jpg |  |  |
| 02 | newsPictureLocation = “hello.png” | The system is error with inputting wrong type.  Return null |  |  |
| 03 | newsPictureLocation = “hello.gif” | The system is error with inputting wrong type.  Return null |  |  |
| 04 | Null | Return null |  |  |

**UT** Class ContactService: editContact(contact: Contact) : Contact

**Description:** Test for ensuring that this method can edit the contact.

**Prerequisites or Test input**: The mock objects are contact1 in Appendix A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test edit data which pass data | {contactTel = “053-000000”  contactPlace = “  ถนนพระปกเกล้า ตำบลพระสิงห์  อำเภอ เมือง จ เชียงใหม่ 50200 “  contactFacebook = “https://www.facebook.com  /jadl.chiangmai?fref=ts  “} | {contactTel = ‘053-000000’ contactPlace = ‘  ถนนพระปกเกล้า ตำบลพระสิงห์  อำเภอ เมือง จ เชียงใหม่ 50200 ‘  contactFacebook = ‘https://www.facebook.com  /jadl.chiangmai?fref=ts  ‘} |  |  |
| 02 | Test edit data which null data | {null} | null |  |  |

**UT** Class Contact: getContactID() : Long

**Description:** Test for getting contact ID that is set by setContactID(contactID: Long) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get contact ID which not empty | {1} |  |  |
| 02 | Test get contact ID which is empty data | Return null |  |  |

**UT** Class Contact: setContactID(contactID: Long) : void

**Description:** Test for setting contact ID.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set contact ID which is pass | contactID = 1 | contactID = 1 |  |  |
| 02 | Test set contact ID which is not pass | contactID = one | The system is error with inputting wrong type.  Return null |  |  |
| 03 | Test data which is empty object | Null | Return null |  |  |

**UT** Class Contact: getContactTel() : String

**Description:** Test for getting contact telephone that is set by setContactTel(contactTel: String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get contact telephone which not empty | {053141122} |  |  |
| 02 | Test get question description which is empty data | Return null |  |  |

**UT** Class Contact: setContactTel(contactTel: String) : void

**Description:** Test for setting contact telephone.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set contact telephone which is pass | contactTel = “053141122” | contactTel = ‘053141122’ |  |  |
| 02 | Test set contact telephone which is not pass | contactTel = +66881414615 | The system is error with inputting wrong type.  Return null |  |  |
| 03 | Test data which is empty object | Null | Return null |  |  |

**UT** Class Contact: getContactPlace() : String

**Description:** Test for getting contact address that is set by setContactPlace(contactPlace: String) : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get contact address which not empty | {‘ถนนพระปกเกล้า ตำบลพระสิงห์ อำเภอ เมือง จ เชียงใหม่ 50200 ‘} |  |  |
| 02 | Test get contact address which is empty data | Return null |  |  |

**UT** Class Contact: setContactPlace(contactPlace: String) : void

**Description:** Test for setting contact address.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set contact address which is pass | contactPlace = “ถนนพระปกเกล้า ตำบลพระสิงห์ อำเภอ เมือง จ เชียงใหม่ 50200” | contactPlace = ‘ถนนพระปกเกล้า ตำบลพระสิงห์ อำเภอ เมือง จ เชียงใหม่ 50200’ |  |  |
| 02 | Test set contact address which is not pass | contactPlace =1111 | The system is error with inputting wrong type.  Return null |  |  |
| 03 | Test data which is empty object | Null | Return null |  |  |

**UT** Class Contact: getContactFacebook() : String

**Description:** Test for getting contact facebook that is set by setContactFacebook() : void

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get contact facebook which not empty | {https://www.facebook.com/jadl.chiangmai?fref=ts} |  |  |
| 02 | Test get contact facebook which is empty data | Return null |  |  |

**UT** Class Contact: setContactFacebook() : void

**Description:** Test for setting contact facebook.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test set contact facebook which is pass | contactFacebook =  “https://www.facebook.com  /jadl.chiangmai?fref=ts” | contactFacebook =  ‘https://www.facebook.com  /jadl.chiangmai?fref=ts’ |  |  |
| 02 | Test set contact facebook which is not pass | contactFacebook = ---- | The system is error with inputting wrong type.  Return null |  |  |
| 03 | Test data which is empty object | Null | Return null |  |  |

**UT** Class GalleryService: getGallery() : List<Gallery>

**Description:** Test for getting gallery.

**Prerequisites or Test input**: The mock objects are gallery1 and gallery 2 in Appendix A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC id | Description | Expected Output | Actual Output | Pass/Fail |
| 01 | Test get object which not empty | { galleryId=1, galleyName= ‘บวชฤดูร้อน 2554’, galleryDate= 01/04/58,{ pictureId = 1, pictureName = ‘ภาพ1’, pictureLocation = ‘ภาพ1.jpg’},{ pictureId = 2, pictureName = ‘ภาพ2’, pictureLocation = ‘ภาพ2.jpg’}},{ galleryId=3, galleyName= ‘งานปอยหลวง’, galleryDate= 01/05/58,{ pictureId = 4, pictureName = ‘วัด1’, pictureLocation = ‘วัด1.jpg’},{ pictureId = ‘2’, pictureName = ‘วัด2’, pictureLocation = ‘วัด2.jpg’}} |  |  |
| 02 | Test get object which is empty | Return null |  |  |

**UT** Class GalleryService: addPicture(picture : Picture) : Picture

**Description:** Test for adding the picture into the database.

**Return** : The result will return user object in the database

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test adding data which is pass | { galleyName= “บวชฤดูร้อน 2554”, galleryDate= 01/04/58,{ pictureName = “ภาพ1”, pictureLocation = “ภาพ1.jpg”},{pictureName = “ภาพ2”, pictureLocation = “ภาพ2.jpg”}} | { galleryId=1, galleyName= ‘บวชฤดูร้อน 2554’, galleryDate= 01/04/58,{ pictureId = ‘1’, pictureName = ‘ภาพ1’, pictureLocation = ‘ภาพ1.jpg’},{ pictureId = ‘2’, pictureName = ‘ภาพ2’, pictureLocation = ‘ภาพ2.jpg’}} |  |  |
| 02 | Test adding data which is pass | { galleyName= “งานปอยหลวง”, galleryDate= 01/05/58,{ pictureName = “วัด1”, pictureLocation = “วัด1.jpg”},{ pictureName = “วัด2”, pictureLocation = “วัด2.jpg”}} | { galleryId=3, galleyName= ‘งานปอยหลวง’, galleryDate= 01/05/58,{ pictureId = 1, pictureName = ‘วัด1’, pictureLocation = ‘วัด1.jpg’},{ pictureId = 4, pictureName = ‘วัด2’, pictureLocation = ‘วัด2.jpg’}} |  |  |
| 03 | Test data which is duplicate object | { galleyName= “บวชฤดูร้อน 2554”, galleryDate= 01/04/58,{ pictureName = “ภาพ1”, pictureLocation = “ภาพ1.jpg”},{pictureName = “ภาพ2”, pictureLocation = “ภาพ2.jpg”}} | null |  |  |
| 04 | Test data which is empty object | {} | null |  |  |
| 05 | Test data which is null object | {null} | null |  |  |

**UT** Class GalleryService: deletePicture(picture : Picture) : Picture

**Description:** Test for deleting the picture from the database.

**Prerequisites or Test input**: The mock objects are gallery1 and gallery 2 in Appendix A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC id | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Test deleting data which is pass | pictureId = 1 | { pictureId = ‘1’, pictureName = ‘ภาพ1’} deleted |  |  |
| 02 | Test deleting data which is null object | Null | Return null |  |  |

**UT78** Class GalleryService: updatePicture(picture : Picture) : Picture

**Description:** Test for updating the picture from the database.

**UT79** Class GalleryService: editGallery(gallery : Gallery) : Gallery

**Description:** Test for editing the picture.

# Chapter Three | System test

|  |  |
| --- | --- |
| System Test | Test Feature |
| ST01 | Admin can login to the website. |
| ST02 | Admin can logout to the website. |
| ST03 | Admin can update temple history. |
| ST04 | Admin can update contact information on the website. |
| ST05 | Admin can update temple news in News page. |
| ST06 | Admin can update temple pictures on the Home page. |
| ST07 | Admin can add new gallery on the Gallery page. |
| ST08 | Admin can add new pictures on the gallery. |
| ST09 | Admin can edit details of each activity gallery. |
| ST10 | Admin can delete pictures in the gallery. |
| ST11 | Admin can receive questions from the user. |
| ST12 | Admin can answer the user’s question on the website. |
| ST13 | Admin can send news to registered users’ email. |
| ST14 | Admin can delete the user’s question. |
| ST15 | Registered user can login to the website. |
| ST16 | Registered user can log out to the website. |
| ST17 | Registered user can edit their own registered information. |
| ST18 | Registered user can get news from admin by their registered e-mail. |
| ST19 | User can register to the website. |
| ST20 | User can view temple pictures on the Home page. |
| ST21 | User can view temple news |
| ST22 | User can view the temple history. |
| ST23 | User can select activity gallery. |
| ST24 | User can view the gallery information of the selected gallery. |
| ST25 | User can view pictures in the selected gallery. |
| ST26 | User can select picture to view a big picture. |
| ST27 | User can view others users’ question-answer on the Question-Answer page. |
| ST28 | User can post questions on the Question-Answer page. |
| ST29 | User can receive the answer from admin. |
| ST30 | User can view temple location on Map page. |
| ST31 | User can view the temple contact information. |
| ST32 | User can contact temple by using email address. |
| ST33 | User can click link on website to like the Facebook page of the temple. |

**ST01**: Admin can login to the website.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to login to the website by using username and password that are provided for only admin. |
| **Tested by** | Thitiworada Thongprasert 552115019 |
| **Procedure step** | * Admin enters Login page. * Admin inputs username “Se19@vr.camt.info” and password “1234” * Admin clicks “เข้าสู่ระบบ” button. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of input correct username and password. | username “Se19@vr.camt.  info” and password “1234” | The system redirects to Home page. |  |  |
| 02 | Testing of input incorrect username or password. | username “hello” and password “1234” | The system displays error message "ชื่อผู้ใช้งาน หรือ รหัสผ่าน ไม่ถูกต้อง". |  |  |
| 03 | Testing of input incorrect username or password. | username “admin” and password “555” | The system displays error message "ชื่อผู้ใช้งาน หรือ รหัสผ่าน ไม่ถูกต้อง". |  |  |
| 04 | Testing of no input. | - | null |  |  |
| 05 | Testing of click on “เข้าสู่ระบบ” button. |  | The system redirects to Home page. |  |  |

**ST02**: Admin can logout to the website.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to logout to the website after finish working. |
| **Tested by** | Thitiworada Thongprasert 552115019 |
| **Procedure step** | * Admin is still on some page. * Admin clicks “ออกจากระบบ” button. * Admin clicks “ยืนยัน” button. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “ออกจากระบบ” button. | “ออกจากระบบ” button | The system displays message “คุณแน่ใจใช่ไหมว่าจะทำการออกจากระบบ?”. |  |  |
| 02 | Testing of click on “ยืนยัน” button. | “ยืนยัน” button | The system redirects to Login page. |  |  |

**ST03**: Admin can update temple history on the website.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to edit the information and pictures of history. |
| **Tested by** | Thitiworada Thongprasert 552115019 |
| **Procedure step** | * Admin clicks “แก้ไขหน้านี้” button on the History page. * Admin updates the detail of temple history. * Admin updates new pictures. * Admin clicks “บันทึก” button to update new temple history. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “แก้ไขหน้านี้” button. | “แก้ไขหน้านี้” button | The system redirects to editHistory page. |  |  |
| 02 | Testing of updating temple history description. | The description of temple history. | The description of temple history on the History page will be changed. The system displays confirmed message “สำเร็จ”. |  |  |
| 03 | Testing of updating temple pictures with correct type and size. | The jpg. file of pictures with size 600\*800. | The pictures of temple history on the History page will be changed.  The system displays confirmed message “สำเร็จ”. |  |  |
| 04 | Testing of updating temple pictures with incorrect type. | The file of pictures with type png. | The system displays error message “ไฟล์ไม่ได้รับอนุญาต”. |  |  |
| 05 | Testing of updating temple pictures with incorrect size. | The file of pictures with size 1800\*1200. | The system shall display error message “ขนาดของรูปภาพใหญ่เกิน 600\*800”. |  |  |
| 06 | Testing of click on “บันทึก” button. |  | The system displays confirmed message “สำเร็จ”. |  |  |

**ST0**4: Admin can update contact information on the website.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to edit the contact information of the temple. |
| **Tested by** | Thitiworada Thongprasert 552115019 |
| **Procedure step** | * Admin clicks “แก้ไขหน้านี้” button on the Contact page. * Admin updates the detail of contact information. * Admin clicks “บันทึก” button to update new contact information. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “แก้ไขหน้านี้” button. | “แก้ไขหน้านี้” button | The system redirects to editContact page. |  |  |
| 02 | Testing of updating contact information. | The updated contact information. | The contact information on the Contact page will be changed. The system displays confirmed message “สำเร็จ”. |  |  |
| 03 | Testing of click on “บันทึก” button. |  | The system displays confirmed message “สำเร็จ”. |  |  |

**ST05**: Admin can update temple news on News page.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to edit news of the temple. |
| **Tested by** | Thitiworada Thongprasert 552115019 |
| **Procedure step** | * Admin clicks “แก้ไขหน้านี้” button on the News page. * Admin updates news as a picture. * Admin clicks “อัพโหลด” button. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “แก้ไขหน้านี้” button. | “แก้ไขหน้านี้” button | The system redirects to editNews page. |  |  |
| 02 | Testing of updating news picture with correct type and size. | The jpg. file of pictures with size 600\*800. | The news on the News page will be changed. The system displays confirmed message “สำเร็จ”. |  |  |
| 03 | Testing of updating news picture with incorrect type. | The file of pictures with type png. | The system displays error message “ไฟล์ไม่ได้รับอนุญาต”. |  |  |
| 04 | Testing of updating news picture with incorrect size. | The file of pictures with size 1800\*1200. | The system shall display error message “ขนาดของรูปภาพใหญ่เกิน 600\*800”. |  |  |
| 05 | Testing of click on “บันทึก” button. |  | The system displays confirmed message “สำเร็จ”. |  |  |

**ST06**: Admin can update temple pictures on the Home page.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to edit pictures of the temple. |
| **Tested by** | Thitiworada Thongprasert 552115019 |
| **Procedure step** | * Admin clicks “แก้ไขหน้านี้” button on the Home page. * Admin updates new temple pictures. * Admin clicks “อัพโหลด” button |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “แก้ไขหน้านี้” button. | “แก้ไขหน้านี้” button | The system redirects to editHome page. |  |  |
| 02 | Testing of updating pictures with correct type and size. | The jpg. file of pictures with size 600\*800. | Pictures on the Home page will be changed. The system displays confirmed message “สำเร็จ”. |  |  |
| 03 | Testing of updating pictures with incorrect type. | The file of pictures with type png. | The system displays error message “ไฟล์ไม่ได้รับอนุญาต”. |  |  |
| 04 | Testing of updating pictures with incorrect size. | The file of pictures with size 1800\*1200. | The system shall display error message “ขนาดของรูปภาพใหญ่เกิน 600\*800”. |  |  |
| 05 | Testing of click on “บันทึก” button. |  | The system displays confirmed message “สำเร็จ”. |  |  |

**ST07**: Admin can add new gallery on the Gallery page.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to add new gallery. |
| **Tested by** | Thitiworada Thongprasert 552115019 |
| **Procedure step** | * Admin clicks “เพิ่มอัลบั้ม” button. * Admin inputs name and detail of new album. * Admin clicks “บันทึก” button. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “เพิ่มอัลบั้ม” button. | “เพิ่มอัลบั้ม” button | The system provide text box to receive the name and the detail. |  |  |
| 02 | Testing of input name and detail. |  |  |  |  |
| 03 | Testing of click on “บันทึก” button. |  | The Gallery page displays a new gallery.  The system displays confirmed message “สำเร็จ”. |  |  |

**ST0**8: Admin can add new pictures in the gallery.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to add new pictures into the gallery. |
| **Tested by** | Thitiworada Thongprasert 552115019 |
| **Procedure step** | * Admin clicks “เพิ่มรูปภาพ” button. * Admin adds new pictures. * Admin clicks “บันทึก” button. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “เพิ่มรูปภาพ” button. | “เพิ่มรูปภาพ” button | The system provides the UI for receiving new pictures. |  |  |
| 02 | Testing of adding new pictures with correct type and size. | The jpg. file of pictures with size 600\*800. | The new pictures are in the gallery. The system displays confirmed message “สำเร็จ”. |  |  |
| 03 | Testing of adding new pictures with incorrect type. | The file of pictures with type png. | The system displays error message “ไฟล์ไม่ได้รับอนุญาต”. |  |  |
| 04 | Testing of adding new pictures with incorrect size. | The file of pictures with size 1800\*1200. | The system shall display error message “ขนาดของรูปภาพใหญ่เกิน 600\*800”. |  |  |
| 05 | Testing of click on “บันทึก” button. |  | The new pictures are in the gallery. The system displays confirmed message “สำเร็จ”. |  |  |

**ST0**9: Admin can edit details of each gallery.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to edit the detail of the gallery, such as name, date. |
| **Tested by** | Thitiworada Thongprasert 552115019 |
| **Procedure step** | * Admin clicks “แก้ไขหน้านี้” button on the Gallery page. * Admin inputs new gallery details. * Admin clicks “บันทึก” button. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “แก้ไขหน้านี้” button. | “แก้ไขหน้านี้” button | The system redirects to editGallery page. |  |  |
| 02 | Testing of updating details of the gallery. | The updated details. | The details of the gallery on the Gallery page will be changed. The system displays confirmed message “สำเร็จ”. |  |  |
| 03 | Testing of click on “บันทึก” button. |  | The system displays confirmed message “สำเร็จ”. |  |  |

**ST10**: Admin can delete pictures in the gallery.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to delete pictures in the gallery. |
| **Tested by** | Thitiworada Thongprasert 552115019 |
| **Procedure step** | * Admin clicks “ลบ” button. * Admin clicks “ตกลง” button to confirm. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “ลบ” button. |  | The system asks to confirm. |  |  |
| 03 | Testing of click on “ตกลง” button. |  | There is no deleted pictures in the gallery. |  |  |

**ST11:** Admin can receive questions from the user.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to receive question from the user |
| **Tested by** | Pimpaporn Chaichompoo 552115052 |
| **Procedure step** | - Admin clicks on “ถาม-ตอบ” menu. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “ถาม-ตอบ” menu. | “ถาม-ตอบ” menu. | The system redirects to question page that  contains list of the users’ question. |  |  |

**ST12:** Admin can answer the question on the website.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to answer the question to the user |
| **Tested by** | Pimpaporn Chaichompoo 552115052 |
| **Procedure step** | -Admin clicks ”ตอบ” button on the question page. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “ตอย” button. | “ตอบ” button | The system redirects to answer page that contains with textbox for receiving the answer from the admin. |  |  |

**ST13:** Admin can send news to registered users’ email.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to send news to registered user’s email. |
| **Tested by** | Pimpaporn Chaichompoo 552115052 |
| **Procedure step** | -Admin clicks check box button for selecting registered user’s email on the news page.  -Admin clicks “ตกลง” button for sending news to the registered user. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on checkbox button. | checkbox button | The system shows list of registered users’ email. |  |  |
| 02 | Testing of click on “ตกลง” button. |  | The system sends news to the user. |  |  |

**ST14:** Admin can delete the user’s question on the website.

|  |  |
| --- | --- |
| **Test Objective** | Admin must be able to delete the user’s question on the website. |
| **Tested by** | Pimpaporn Chaichompoo 552115052 |
| **Procedure step** | -Admin clicks ”ลบ” button on the question page.  -Admin clicks “ตกลง” button to confirm. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “ลบ” button. |  | The system asks to confirm. |  |  |
| 02 | Testing of click on “ตกลง” button. |  | The system deletes the user question from the database. |  |  |

**ST15:** Registered user can login to the website.

|  |  |
| --- | --- |
| **Test Objective** | Registered user must be able to login to the website. |
| **Tested by** | Sornkom Yoohat 552115068 |
| **Procedure step** | * Registered user Login page. * Registered user inputs username “Se52@vr.camt.info” and password “5678” * Registered user clicks “เข้าสู่ระบบ” button. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of input correct username and password. | username “Se52@vr.camt.info” and password “5678” | The system redirects to Home page. |  |  |
| 02 | Testing of input incorrect username or password. | username “hello” and password “1234” | The system displays error message "ชื่อผู้ใช้งาน หรือ รหัสผ่าน ไม่ถูกต้อง". |  |  |
| 03 | Testing of input incorrect username or password. | username “register” and password “555” | The system displays error message "ชื่อผู้ใช้งาน หรือ รหัสผ่าน ไม่ถูกต้อง". |  |  |
| 04 | Testing of no input. | - | null |  |  |
| 05 | Testing of click on “เข้าสู่ระบบ” button. |  | The system redirects to Home page. |  |  |

**ST16:** Registered user can log out to the website.

|  |  |
| --- | --- |
| **Test Objective** | Registered user must be able to log out to the website. |
| **Tested by** | Sornkom Yoohat 552115068 |
| **Procedure step** | * Registered user is still on some page. * Registered user clicks “ออกจากระบบ” button. * Registered user clicks “ยืนยัน” button. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “ออกจากระบบ” button. | “ออกจากระบบ” button | The system displays message “คุณแน่ใจใช่ไหมว่าจะทำการออกจากระบบ?”. |  |  |
| 02 | Testing of click on “ยืนยัน” button. | “ยืนยัน” button | The system redirects to Login page. |  |  |

**ST17:** Registered user can edit their own registered information.

|  |  |
| --- | --- |
| **Test Objective** | Registered user must be able to edit their own registered information. |
| **Tested by** | Sornkom Yoohat 552115068 |
| **Procedure step** | * Registered user clicks editProfile page * Registered user input information. * Registered user clicks “บันทึก” button |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on editProfile page | editProfile page | The system displays editProfile page |  |  |
| 02 | Testing of updating correct first name format. | f\_name= “Sornkom” | f\_name= “Sornkom”  and the system shall display confirmed message “สำเร็จ”. |  |  |
| 03 | Testing of updating incorrect first name format. | f\_name = 123S | The system shall display the error message “ชื่อและนามสกุล ต้องเป็นตัวอักษร |  |  |
| 04 | Testing of updating correct last name format. | l\_name = “Yoohat” | l\_name = “Yoohat”  and the system shall display confirmed message “สำเร็จ”. |  |  |
| 05 | Testing of updating incorrect last name format. | l\_name = 999 | The system shall display the error message “ชื่อและนามสกุล ต้องเป็นตัวอักษร |  |  |
| 06 | Testing of updating correct username format. | username = “se66@vr.camt.info” | username = “[se66@vr.camt.info](mailto:se66@vr.camt.info)”  and the system shall display confirmed message “สำเร็จ”. |  |  |
| 07 | Testing of updating incorrect username format. | username = “se66” | The system shall display the error message “ชื่อผู้ใช้ต้องเป็นอีเมลล์”. |  |  |
| 08 | Testing of updating correct password format. | password = “123456789” | password = “123456789”  and the system shall display confirmed message “สำเร็จ”. |  |  |
| 09 | Testing of updating incorrect password format. | password = “12345” | The system shall display the error message “รหัสผ่านต้องมีความยาว 9-12 ตัวอักษร”. |  |  |
| 10 | Testing of updating correct re-password format. | re-password = “123456789” | Password = “123456789”  the system shall display confirmed message “สำเร็จ”. |  |  |
| 11 | Testing of updating incorrect re-password format. | re-password = “1234” | The system shall display the error message “รหัสผ่าน-รหัสผ่านอีกครั้ง ไม่ตรงกัน”. |  |  |
| 12 | Testing of click on “บันทึก” button. | “บันทึก” button. | Update information into database and the system shall display confirmed message “สำเร็จ”. |  |  |
| 13 | Testing of click on “ยกเลิก” button. | “ยกเลิก” button. | The system redirects to editProfile page. |  |  |

**ST18:** Registered user can get news from admin by their registered e-mail.

|  |  |
| --- | --- |
| **Test Objective** | Registered user must be able to get news from admin by their registered e-mail. |
| **Tested by** | Sornkom Yoohat 552115068 |
| **Procedure step** | * Registered user access e-mail system. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of receive news from admin | Username = “se68@vr.camt.info” | Receive news from admin. |  |  |
| 02 | Testing of receive news from admin |  |  |  |  |

**ST19**: User can register to the website.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to register to the website. |
| **Tested by** | Pimpaporn Chaichompoo 552115052 |
| **Procedure step** | -User clicks “ลงทะเบียน” button on the login page.  -User fills first name , lass name , username and password to the register page.  -User click “ตกลง” button to register to the website. |

Result :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “ลงทะเบียน” button. |  | The system redirects to the register page. |  |  |
| 02 | Testing of input correct first name and lass name. | f\_name=”พิมพาภรณ์”,  l\_name=”ไชยชมภู” |  |  |  |
| 03 | Testing of input incorrect first name and lass name. | f\_name=”04930”,  l\_name=”123535” | The system displays error message “ชื่อและ นามสกุลต้องเป็นตัวอักษรเท่านั้น” |  |  |
| 04 | Testing of input correct username. | username =“Pimpaporn\_c@cmu.ac.th” |  |  |  |
| 05 | Testing of input incorrect username. | username =”parepare” | The system displays error message “ชื่อผู้ใช้ต้องเป็นอีเมลล์เท่านั้น” |  |  |
| 06 | Testing of input username that is already be used from another account. | username =“pare\_c@cmu.ac.th” | The system displays error message “ชื่อผู้ใช้นี้มีคนใช้แล้ว” |  |  |
| 07 | Testing of input incorrect password. | password =”aa” | The system displays error message “รหัสผ่านต้องมีความยาว9-12ตัวอักษร” |  |  |
| 08 | Testing of input incorrect password. | password =”aaaaaaaaaa” | The system displays error message “รหัสผ่านต้องมีทั้งตัวอักษรและตัวเลข” |  |  |
| 09 | Testing of input correct password. | password =”pare2536” |  |  |  |
| 11 | Testing of click on “ตกลง” button. | “ตกลง” button. | The system deletes the user question from the database. |  |  |

**ST20:** User can view temple pictures in the Home page.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to view temple pictures in the Home page |
| **Tested by** | Sornkom Yoohat 552115068 |
| **Procedure step** | * User clicks on “หน้าแรก” menu |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “หน้าแรก” menu | “หน้าแรก” menu | The system displays “หน้าแรก” page |  |  |
| 02 | Testing of temple pictures in the Home page | “หน้าแรก” menu | The system displays  pictures in the Home page |  |  |

**ST21:** User can view temple news**.**

|  |  |
| --- | --- |
| **Test Objective** | User must be able to view temple news**.** |
| **Tested by** | Sornkom Yoohat 552115068 |
| **Procedure step** | * User clicks on “ข่าวสาร” menu . |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “ข่าวสาร” menu . | “ข่าวสาร” menu | The system displays “ข่าวสาร”page |  |  |
| 02 | Testing of display temple news | “ข่าวสาร” menu | The system displays temple news |  |  |

**ST22:** User can view the temple history.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to view temple history**.** |
| **Tested by** | Sornkom Yoohat 552115068 |
| **Procedure step** | * User clicks on “ประวัติ” menu. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on “ประวัติ” menu | “ประวัติ” menu | The system displays “ประวัติ” page |  |  |
| 02 | Testing of display temple history | “ประวัติ” menu | The system displays temple history |  |  |

**ST23:** User can select gallery.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to select gallery. |
| **Tested by** | Sornkom Yoohat 552115068 |
| **Procedure step** | * User clicks on "แกลเลอรี่" menu * User clicks gallery in Gallery page. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on "แกลเลอรี่" menu | "แกลเลอรี่" menu | The system displays "แกลเลอรี่" page |  |  |
| 02 | Testing of click gallery in Gallery page. | Gallery =“บวชฤดูร้อน 2554” | The system displays picture in “บวชฤดูร้อน 2554” gallery |  |  |

**ST24:** User can view the gallery information of the selected gallery.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to view the gallery information of the selected gallery**.** |
| **Tested by** | Sornkom Yoohat 552115068 |
| **Procedure step** | * User clicks on "แกลเลอรี่" menu * User clicks gallery in Gallery page. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on "แกลเลอรี่" menu | "แกลเลอรี่" menu | The system displays "แกลเลอรี่" page |  |  |
| 02 | Testing of click gallery in Gallery page. | Gallery =“บวชฤดูร้อน 2554” | The system displays picture in “บวชฤดูร้อน 2554” gallery |  |  |
| 03 | Testing of display gallery information of the selected gallery | Gallery =“บวชฤดูร้อน 2554” | The system displays  gallery information of  =“บวชฤดูร้อน 2554” gallery |  |  |

**ST25**: User can view pictures in the selected gallery.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to view pictures in the selected gallery. |
| **Tested by** | Supakarn Graisaard 552115072 |
| **Procedure step** | * User clicks on "แกลเลอรี่" menu * User clicks gallery in Gallery page. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on "แกลเลอรี่" menu | "แกลเลอรี่" menu | The system displays "แกลเลอรี่" page |  |  |
| 02 | Testing of click gallery in Gallery page. | Gallery =“บวชฤดูร้อน 2554” | The system displays picture in “บวชฤดูร้อน 2554” gallery |  |  |

**ST26**: User can select picture to view a big picture.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to select picture to view a big picture |
| **Tested by** | Supakarn Graisaard 552115072 |
| **Procedure step** | * User clicks on "แกลเลอรี่" menu * User clicks gallery in Gallery page. * User clicks picture in selected gallery. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on "แกลเลอรี่" menu | "แกลเลอรี่" menu | The system displays "แกลเลอรี่" page |  |  |
| 02 | Testing of click gallery in Gallery page. | Gallery =“บวชฤดูร้อน 2554” | The system displays picture in “บวชฤดูร้อน 2554” gallery |  |  |
| 03 | Testing of click  picture in selected gallery | picture | The system displays big picture |  |  |
| 04 | Test selecting “x” button | Select “x” button. | Cancel to view a big picture. |  |  |

**ST27** : User can view others users’ question-answer on the Question-Answer page.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to view others users’ question-answer on the Question-Answer page. |
| **Tested by** | Supakarn Graisaard 552115072 |
| **Procedure step** | * User click on Question-Answer page. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click on Question-Answer page | Selected Question-Answer page. | The system displays Question-Answer page |  |  |
| 02 | Testing of display questions and answers | Selected Question-Answer page. | The system displays questions and answers in the Question-Answer page. |  |  |

**ST28** : User can post questions on the Question-Answer page.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to post questions on the Question-Answer page. |
| **Tested by** | Supakarn Graisaard 552115072 |
| **Procedure step** | * User inputs question on text filed * User inputs e-mail. * User clicks on“ตกลง” button * System display success message. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of inputs question on text filed. | question = “วันเข้าพรรษาปีนี้ตรงกับวันอะไร ” | The system displays confirmed message “สำเร็จ”. |  |  |
| 02 | Testing of inputs e-mail. | E-mail = “se55@vr.camt.info” | The system displays confirmed message “สำเร็จ”. |  |  |
| 03 | Testing of inputs e-mail. | E-mail = “se55” |  |  |  |
| 04 | Testing of click on “ตกลง” button. | “ตกลง” button | The system displays confirmed message “สำเร็จ”. |  |  |
| 05 | Testing of click on “ยกเลิก” button. | “ยกเลิก” button | The system redirect Question-Answer page. |  |  |
| 06 | Testing of ensuring the user receive the confirm message. | “ตกลง” button | The system displays confirmed message “สำเร็จ”. |  |  |

**ST29** : User can receive the answer from admin.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to receive the answer from admin. |
| **Tested by** | Supakarn Graisaard 552115072 |
| **Procedure step** | * User clicks on “แก้ไขข้อมูล” button * User clicks on “คำถามส่วนตัว” button * User views own question page. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click “แก้ไขข้อมูล” button | “แก้ไขข้อมูล” button | The system displays editProfile page |  |  |
| 02 | Testing of click on “คำถามส่วนตัว” button | “คำถามส่วนตัว” button | The system displays own question page |  |  |
| 03 | Testing of display own question-answer on  own question page | “คำถามส่วนตัว” button | The system displays own question-answer on  own question page |  |  |

**ST30** : User can view temple location on Map page.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to view temple location on Map page |
| **Tested by** | Supakarn Graisaard 552115072 |
| **Procedure step** | * User click on “แผนที่” menu |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click “แผนที่” menu | “แผนที่” menu | The system displays Map page. |  |  |
| 02 | Testing of display map | “แผนที่” menu | The system displays location on Map page. |  |  |

**ST31** : User can view the temple contact information.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to view the temple contact information |
| **Tested by** | Supakarn Graisaard 552115072 |
| **Procedure step** | * User click on “ติดต่อ” menu |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click“ติดต่อ” menu | “ติดต่อ” menu | The system displays contact page. |  |  |
| 02 | Testing of display temple contact information | “แผนที่” menu | The system displays temple contact information. |  |  |

**ST32** : User can contact temple by using email address.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to view the temple contact information |
| **Tested by** | Supakarn Graisaard 552115072 |
| **Procedure step** | * User inputs contact information * User inputs E-mail * User click “ตกลง” button |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of input contact information | contact information = “ใช้เวลาจากสนามบินไปวัดประมาณกี่นาที” | The system displays confirmed message “สำเร็จ”. |  |  |
| 02 | Testing of input e-mail. | E-mail = “se55@vr.camt.info” | The system displays confirmed message “สำเร็จ”. |  |  |
| 03 | Testing input e-mail. | E-mail = “se55” |  |  |  |
| 04 | Testing of click on “ตกลง” button. | “ตกลง” button | The system displays confirmed message “สำเร็จ”. |  |  |
| 05 | Testing of click on “ยกเลิก” button. | “ยกเลิก” button | The system redirects Question-Answer page. |  |  |
| 06 | Testing of ensure the user receive the confirm message. | “ตกลง” button | The system displays confirmed message “สำเร็จ”. |  |  |

**ST33** : User can click link on website to like the Facebook page of the temple.

|  |  |
| --- | --- |
| **Test Objective** | User must be able to click link on website to like the Facebook page of the temple. |
| **Tested by** | Supakarn Graisaard 552115072 |
| **Procedure step** | * User click “ติดต่อเมนู” menu. * User click link Facebook. |

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Description | Input | Expected Output | Actual Output | Pass/Fail |
| 01 | Testing of click “ติดต่อ” menu | “ติดต่อ” menu | The system displays contact page. |  |  |
| 02 | Testing of click link Facebook. | Link Facebook. | The system displays temple Facebook |  |  |

Appendix A

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Object name | userId | f\_name | l\_name | username | password | role |
| user1 | 1 | thiti | wora | Se19@vr.camt.info | 1234 | admin |
| user2 | 2 | pim | chai | Se52@vr.camt.info | 5678 | register |
| User3 | 3 | sorn | yu | Se68@vr.camt.info | aaaa | user |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Object name | username | questionId | questionDes | answerId | answerDes |
| question1 | Se19@vr.camt.info | 1 | What date? | 1 | On 25th |
| question1 | Se52@vr.camt.info | 2 | What time? | 2 | 14:00 |

|  |  |  |
| --- | --- | --- |
| Object name | HistoryDes | historyPictureLocation |
| history1 | **Wat Chedi Luang** built in 1928 | **history.jpg** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Object name | newsId | news  Name | newsDate | newsTime | newsPlace | newsPictureLocation |
| news1 | **1** | **Magha Puja Day** | 4/03/2558 | 14:52 | [Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY) | 554.jpg |
| news2 | 2 | The Buddhist Lent Day | 5/05/2558 | 10:00 | [Wat Chedi Luang](https://www.google.co.th/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAA&url=http%3A%2F%2Fwww.engjang.com%2Farticle%2Ftopic-30895.html&ei=0CNDVfTuAaLMmAWtj4HYDA&usg=AFQjCNFYmZDj3eNRa4blsE1_GeFYvztOqw&sig2=qoVpsjbCsXwgB38qyA9LEA&bvm=bv.92189499,d.dGY) | 100.jpg |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Object name | contactId | contactTel | contactPlace | contactFacebook |
| contact1 | 1 | 053-141321 | ถนนพระปกเกล้า ตำบลพระสิงห์ อำเภอ เมือง จ เชียงใหม่ 50200 | https://www.facebook.com/jadl.chiangmai?fref=ts |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| galleryId | galleyName | galleryDate | pictureList | | |
| pictureId | pictureName | pictureLocation |
| 1 | บวชฤดูร้อน 2554 | 01/04/58 | 1 | ภาพ1 | ภาพ1.jpg |
| 2 | ภาพ2 | ภาพ2.jpg |
| 2 | งานปอยหลวง | 01/05/58 | 1 | วัด1 | วัด1.jpg |
| 2 | วัด2 | วัด2.jpg |