**The Chiang Mai Red Taxi**

**Service Assistant**

**Test Record**

**By**

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**Chapter One | Introduction**

**Introduction**

This Test plan document is the document to describe plan of testing and methodologies that are used in testing The Chiang Mai Red Taxi Service Assistant.

**Purpose**

The purpose of Test Plan describes the plan for unit testing and system test of The Chiang Mai Red taxi Service Assistant system. This document includes test cases for unit testing and system testing, and test data. The Chiang Mai Red taxi Service Assistant test plan consists of the description of each function in the system. From the result of each function can help developer to fix the defects and reducing the cost of the long term maintenance.

**Scope**

The Scope the plan document covers all the events and activities involving the verification of the Chiang Mai Red taxi Service Assistant and System requirements. The unit testing is used to detect the defects in the system. The system testing is used to verify that the system is fully integrated and meets all of the user requirements specified in the Software Requirement Specification.

**Acronyms and Definitions**

**Acronyms**

PMP Project Management Plan

SDD Software Design Document

SRS Software Requirement Specification

UC Use Case

UI User Interface

UTC Unit Test Case

STC System Test Case

**Definitions**

Feature Transformation of input parameters to output parameters based on a specified algorithm. It describes the functionality of a produce in the language of the product. Used for requirements analysis, design, coding, testing or maintenance. [IEEE90]

Design The period of time in the software life cycle during which the designs for architecture, software component, interfaces and data are created, documented, and verified to satisfy requirements. [IEEE90]

IEEE Institute for Electrical and Electronics Engineers. Biggest global interest group for engineers of different branches and for computer scientists. [IEEE90]

Requirement (1) A condition or capability needed by a user to solve a problem or achieve an objective. (2) A condition or capability that must be met or processed by system or system component to satisfy a contract, standard, specification, or other formally imposed document. (3) A documented representation of a condition or capability as in definition (1) or (2). [IEEE90]

Specification Precise description of an activity or work product which serves as basis or input for further activities or work product. A specification can comprise requirements to a product and how they will be solved. Different parts of a specification (e.g. what is to be done, how it will be done) must not be mixed. [IEEE90]

White box testing Testing process that focus on internal structure. The tester should know the code inside the program and test it through the code and determines the appropriate outputs.

Black box testing Process, device or system that focus on input, output and transfer characteristics without knowledge about it internal structure.

Unit Testing A level of the software testing process where individual units/components of a software/system are tested. The purpose is to validate that each unit of the performs as designed.

System testing A level of the software testing process where a complete, integrated system/software is tested. The purpose of this test is to evaluate the system's compliance with the specified requirements.

**Abbreviation**

Unit Test Case-xx Unit test case number

System Test Case-xx System test case number

**Dependency Document**

This Test Plan is depended on the following documents

* Software Project Management plan
* Software Requirement Specification
* Software Design Document
* Traceability Record

**Chapter Two | Test Plan and Test Procedure**

**Test Objectives**

The objectives of The Chiang Mai Red taxi Service Assistant are to ensure that the system fulfills the followings:

* Bugs and defects are detected and fixed.
* All user requirements are met.
* All functionalities and features are provided.
* All functionalities and features conform to the descriptions in the Project Requirement Specification and the Project Design Specification.

**Scope of Testing**

The Chiang Mai Red taxi Service Assistant will be tested using both white-box testing technique (i.e. unit testing) and black-box testing technique (i.e. system testing). The test results will be documented in the Test Record.

**Test Duration**

|  |  |
| --- | --- |
| **Progress** | **Date and Duration** |
| Progress Report I | Perform date: 1 July 2014-30 July 2014  Duration: 30 days |
| Progress Report II | Perform date:-  Duration:- |
| Final Progress | Perform date:-  Duration:- |

**Test Responsibility**

|  |  |
| --- | --- |
| **Item** | **Responsibility** |
| Unit Test | Kanittee, Pimchittra |
| Unit Test Record | Kanittee, Pimchittra |
| Integration Test | Kanittee, Pimchittra |
| Integration Test Record | Kanittee, Pimchittra |
| System Test | Kanittee, Pimchittra |
| System Test Record | Kanittee, Pimchittra |

**Test Strategy**

The Chiang Mai red taxi service assistant test strategy will ne follow by:

1.Design test case for each feature.

2.Prepare test data each feature.

3.Determine expected results.

4.Perform testing on individual features.

5.Result of testing will be record.

6.All test files will be store in the project repository

**Result of Testing**

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

1.Actual output: The actual outputs that are performed by each test case.

2.Pass/Fail criteria:

2.1 Pass: the result of actual result is same like expected result.

2.2 Fail: the result of actual result is not same like expected result.

**Test Environment**

**Hardware**

-Computer : Lenovo Windows 7 500GB HDD, 2GB DDR3 memory

-Smart Phone : Lenovo A316i android operating system 4.2.2

**Software**

-Java Android SDK 4.0

-Google map V.3

-PHP

-JSON

**Unit Test Record -Driver side**

**UTC 01- onCreate(Bundle savedInstanceState)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 02- addListenerOnButton()**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 03- onCreate(Bundle savedInstanceState)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 04 - onCreate(Bundle savedInstanceState)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 05 - showOnMap(double lat,double lng)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 06 - updatePosition()**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 07- createDestSpinner()**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 08 - addListenerOnButton()**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 09 - onCreate(Bundle savedInstanceState)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 10 - createDestListView(ListView view,String url,String type)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 11 - testupdateChatStatus()**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 12 - onCreate(Bundle savedInstanceState)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**Unit Test Case-Passenger side**

**UTC 13 - onCreate(Bundle savedInstanceState)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 14 - addListenerOnButton()**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 15 - onCreate(Bundle savedInstanceState)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 16 - onCreate(Bundle savedInstanceState)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 17 - showOnMap(double lat,double lng)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 18- createDestSpinner()**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 19- addListenerOnButton()**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 20- onCreate(Bundle savedInstanceState)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 21- createDestListView(ListView view,String url,String type)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 22- testupdateChatStatus()**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**UTC 23-** **onCreate(Bundle savedInstanceState)**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | True | True | Pass |

**System Test Record**

**STC 01- Passenger can register to the system.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | The page display message “Registration Complete” and button to redirected to login page | The page display message “Registration Complete” and button to redirected to login page | Pass |
| 2 | Display error message “Enter your…” | Display error message “Enter your…” | Pass |

**STC 02- Passenger can log in to the system.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Displays “welcome+name” and re-status of passenger into “online” | Displays “welcome+name” and re-status of passenger into “online” | Pass |
| 2 | Display error message “This username and password is wrong” | Display error message “This username and password is wrong” | Pass |
| 3 | Display error message “This username and password is wrong” | Display error message “This username and password is wrong” | Pass |

**STC 03- Passenger can log out from the system.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Redirect to log in page. | Redirect to log in page. | Pass |

**STC 04- Passenger can search for the red taxi.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Display the list of not more than 10 red taxi | Display the list of not more than 10 red taxi | Pass |
| 2 | Not display list of red taxi | Not display list of red taxi | Pass |
| 3 | Not display list of red taxi | Not display list of red taxi | Pass |

**STC 05- Passengers can send a request for taxi**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Display the Chat page and request status. | Display the Chat page and request status. | Pass |
| 2 | Display search result page. And no request data in database. | Display search result page. And no request data in database. | Pass |
| 3 | Display a confirmation popup with Driver information. | Display a confirmation popup with Driver information. | Pass |

**STC 06- Passenger can chat with driver.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Driver get message “LLL” | Driver get message “LLL” | Pass |

**STC 07- Driver can register to the system.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | the page display message “Registration Complete” and button to redirected to login page | the page display message “Registration Complete” and button to redirected to login page | Pass |
| 2 | Display error message “Enter your…”user must input data | Display error message “Enter your…”user must input data | Pass |

**STC 08- Driver can log in to the system.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Displays “welcome+name” and re-status of passenger into “online” | Displays “welcome+name” and re-status of passenger into “online” | Pass |
| 2 | Display error message “This username and password is wrong” | Display error message “This username and password is wrong” | Pass |
| 3 | Display error message “This username and password is wrong” | Display error message “This username and password is wrong” | Pass |

**STC 09- Drivers can log out from the system.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Redirect to log in page. | Redirect to log in page. | Pass |

**STC 10- Drivers can update driving information**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Display the request page | Display the request page | Pass |

**STC 11- Drivers respond to Passenger’s request**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Show accepted request on passenger “Accepted by driver” | Show accepted request on passenger “Accepted by driver” | Pass |
| 2 | Show accepted request on driver “Accepted by driver” | Show accepted request on driver “Accepted by driver” | Pass |
| 3 | Display the updated request page without the rejected request | Redirect to passenger by automated reject. | Pass |

**STC 12- Driver can chat with passenger.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Passenger get message “PPP” | Passenger get message “PPP” | Pass |

**STC 13- Administrator can login to the Administration system**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | User is redirected to the main page | User is redirected to the main page | Pass |
| 2 | Redirect back to log in page | Redirect back to log in page | Pass |
| 3 | Redirect back to log in page | Redirect back to log in page | Pass |

**STC 14- Administrator can log out.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Redirect to log in page. | Redirect to log in page. | Pass |

**STC 15- Administrator can add destinations.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | User is redirected to the main page | User is redirected to the main page | Pass |
| 2 | redirect back to log in page | redirect back to log in page | Pass |
| 3 | redirect back to log in page | redirect back to log in page | Pass |

**STC 16- Administrator can browse the destination**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Redirect to destination page | Redirect to destination page | Pass |
| 2 | Redirect to database page | Redirect to database page | Pass |

**STC 17- Administrator can edit destinations.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | User is redirected to the main page | User is redirected to the main page | Pass |
| 2 | Redirect back to log in page | Redirect back to log in page | Pass |
| 3 | Redirect back to log in page | Redirect back to log in page | Pass |

**STC 18- Administrator can delete destinations.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Redirect to main destination page | Redirect to main destination page | Pass |

**STC 19- Administrator can search destinations.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Display “Nimman” | Display “Nimman” | Pass |
| 2 | Display “not found” | Display “not found” | Pass |
| 3 | Display error message “not found” and redirect back to main page page | Display error message “not found” and redirect back to main page | Pass |
| 4 | Display error message “not found” and redirect back to main page | Display error message “not found” and redirect back to main page | Pass |

**STC 20- Administrator can clear data.**

**Test date :** 30/07/2014

**Test by :** Kanittee , Pimchittra

|  |  |  |  |
| --- | --- | --- | --- |
| **Test case ID** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Redirect to main database page | Redirect to main database page | Pass |