**Emergency Information on Mobile**

Test Record

By

Putchakarn Jaikon 542115031

Sawatdiporn Kitirot 542115065

Department of Software Engineering

College of Arts, Media and Technology

Chiang Mai University

Project Advisor

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Aj.Chartchai Doungsa-ard**

**Document History**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Document Name** | **Details** | **Status** | **Date** | **Viewable** | **Reviewer** | **Responsible** |
| **Documents** | | | | | | |
| **EIOM-Test Record-V.0.1.docx** | **Chapter 1**      Introduction | Draft | 15/6/2014 | PJ, SK, CD | PJ, SK | PJ, SK |
| **EIOM- Test Record -V.0.2.docx** | **Chapter 2**      Server Part Unit Testing Record | Draft | 16/6/2014 | PJ, SK, CD | PJ, SK | PJ, SK |
| **EIOM- Test Record -V.0.3.docx** | **Chapter 2**      Mobile Part Unit Testing Record | Draft | 27/5/2014 | PJ, SK, CD | PJ, SK | PJ, SK |
| **EIOM- Test Record -V.0.4.docx** | **Modify Chapter 2**      Server Part Unit Testing Record | Draft | 30/5/2014 | PJ, SK, CD | PJ, SK | PJ, SK |
| **EIOM- Test Record -V.1.0.docx** |     Add Table of content and cover page | Release | 30/5/2014 | PJ, SK, CD | PJ, SK | PJ, SK |
| **EIOM- Test Record -V.1.1.docx** |  Modify chapter 1-2 | Release | 30/7/2014 | PJ, SK, CD | PJ, SK | PJ, SK |
| **EIOM- Test Record -V.2.0.docx** | * Remove UTC-12,13 of mobile part * Add UTC-12 – UTC-26 | Release | 21/10/2014 | PJ, SK, CD | PJ, SK | PJ, SK |

PJ – Putchakarn Jaikon, SK – Sawatdiporn Kitirot, CD – Chartchai Doungsa-ard

Table of Contents

[Chapter One | Introduction 4](#_Toc394348280)

[1.1 Purpose 4](#_Toc394348281)

[1.2 Responsibility 4](#_Toc394348282)

[Chapter Two| Unit Testing Record 5](#_Toc394348283)

[2.1 Server Part Unit Testing Record 5](#_Toc394348284)

[2.2 Mobile Part Unit Testing Record 12](#_Toc394348285)

# Chapter One | Introduction

## Purpose

The purpose of test record for Emergency Information on Mobile project is for recording the actual result and pass/fail criteria of each test case that have designed in the test plan and executed.

This document will include Unit Testing Record which contains Test date, Person who responsibility of Testing Record and Testing Record Table.

**Test Record** is a document, which recording the actual result of each test case that have designed in the test plan.

## Responsibility

|  |  |
| --- | --- |
| **Item** | **Responsibility** |
| Record unit test of web application (Server Part) | Sawatdiporn |
| Record unit test of mobile application (Mobile Part) | Putchakarn |

# Chapter Two| Unit Testing Record

## 2.1 Server Part Unit Testing Record

**2.1.1 Class name for testing**: HelpPlaceServiceImpl

**Unit Test Case 12 (UTC-12):** getNearestHelpPlace(double userLatitude,double userLongitude,Integer categoryId) :HelpPlace

**Test date:** 17/10/2014

**Tested by:** Sawatdiporn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **List of help place object** | **List of help place object** |
| **ID** | **ID** |
| 1 | Test find nearest help place by input category’s ID which is in database | 1 | 1 | Pass |
| 2 | Test find nearest help place by input category’s ID which is not in database | null | null | Pass |

**Unit Test Case 13 (UTC-13):** getHelpPlacesInScope(double userLatitude, double userLongitude, double scope)**:**List<HelpPlace>

**Test date:** 17/10/2014

**Tested by:** Sawatdiporn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **List of help place object** | **List of help place object** |
| **ID** | **ID** |
| 1 | Test get help places by input scope which have help place locate | 1 | 1 | Pass |
| 2 | Test get help places by input scope which have help place locate | 1,2 | 1,2 | Pass |
| 3 | Test get help places by input scope which does not have help place locate | Empty List | Empty List | Pass |

**Unit Test Case 14 (UTC-14):** getLatitudeDistance(double latitude)**:**double

**Test date:** 17/10/2014

**Tested by:** Sawatdiporn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **Latitude surface distance** | **Latitude surface distance** |
| 1 | Test get latitude surface distance by input latitude | 110649.0 | 110649.0 | Pass |
| 2 | Test get latitude surface distance by input latitude | 110649.0 | 110649.0 | Pass |

**Unit Test Case 15 (UTC-15):** getLongitudeDistance(double longitude)**:**double

**Test date:** 17/10/2014

**Tested by:** Sawatdiporn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **Longitude surface distance** | **Longitude surface distance** |
| 1 | Test get longitude surface distance by input latitude | 107551.0 | 107551.0 | Pass |
| 2 | Test get longitude surface distance by input latitude | 107551.0 | 107551.0 | Pass |

**Unit Test Case 16 (UTC-16):** findDistance(double la1, double long1, double la2, double long2)**:**double

**Test date:** 17/10/2014

**Tested by:** Sawatdiporn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **Distance (meter)** | **Distance (meter)** |
| 1 | Test get distance between two places by input latitude and longitude | 478.7309966661931 | 478.7309966661931 | Pass |
| 2 | Test get distance between two places by input latitude and longitude | 155044.92200234122 | 155044.92200234122 | Pass |

## 2.2 Mobile Part Unit Testing Record

**2.2.1 Class name for testing**: HelpPlaceServiceImpl

**Unit Test Case 17 (UTC-17):** insertHelpPlace(ArrayList <HelpPlace> helpPlace): int

**Test date:** 20/10/2014

**Tested by:** Putchakarn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** |  | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **Description** | **List of Help Places**  **ID** | **List of Help Places**  **ID** |
| 1 | Test insert array list of help places into database | 1,2,3,4,5 | 1,2,3,4,5 | Pass |
| 2 | Test insert array list of help places are not null | 1,2,3,4,5 | Not null | Pass |

**Unit Test Case 18 (UTC-18):** deleteAllHelpPlaces (): boolean

**Test date:** 20/10/2014

**Tested by:** Putchakarn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **Boolean** | **Boolean** |
| 1 | Test delete all help places in database | true | true | Pass |

**Unit Test Case 19 (UTC-19):** getJSONObjShowHelpPlacesInOnlineMap(String url): JSONObject

**Test date:** 20/10/2014

**Tested by:** Putchakarn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **JSON Object** | **JSON Array** |
| 1 | Test to get JSON object. | {"Helpplaces":[{"id":1,"category":"Hospital","phoneNumber":"053-947700","address":"110 Suthep Rd, Mueang Chiang Mai, Chiang Mai, 50200","name":"Maharaj Nakorn Chiang Mai Hospital","longitude":98.974209,"latitude":18.789602},{"id":2,"category":"Hospital","phoneNumber":"053-999758","address":"Chang Phuak, Mueang Chiang Mai, Chiang Mai, 50300","name":"Lanna Hospital","longitude":98.991151,"latitude":18.812723},{"id":3,"category":"Hospital","phoneNumber":"054-237400","address":"Tambon Phrabat, Amphoe Mueang Lampang, Lampang, 52000","name":"Lampang Hospital","longitude":99.506305,"latitude":18.285378},{"id":4,"category":"Police Station","phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station","longitude":99.832526,"latitude":19.912221},{"id":5,"category":"Garage","phoneNumber":"053-242999","address":"Outer Ring Road, Saraphi District, Chiang Mai, 50000","name":"Ruangchai Yon Garage","longitude":99.055108,"latitude":18.750651}]} | {"Helpplaces":[{"id":1,"category":"Hospital","phoneNumber":"053-947700","address":"110 Suthep Rd, Mueang Chiang Mai, Chiang Mai, 50200","name":"Maharaj Nakorn Chiang Mai Hospital","longitude":98.974209,"latitude":18.789602},{"id":2,"category":"Hospital","phoneNumber":"053-999758","address":"Chang Phuak, Mueang Chiang Mai, Chiang Mai, 50300","name":"Lanna Hospital","longitude":98.991151,"latitude":18.812723},{"id":3,"category":"Hospital","phoneNumber":"054-237400","address":"Tambon Phrabat, Amphoe Mueang Lampang, Lampang, 52000","name":"Lampang Hospital","longitude":99.506305,"latitude":18.285378},{"id":4,"category":"Police Station","phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station","longitude":99.832526,"latitude":19.912221},{"id":5,"category":"Garage","phoneNumber":"053-242999","address":"Outer Ring Road, Saraphi District, Chiang Mai, 50000","name":"Ruangchai Yon Garage","longitude":99.055108,"latitude":18.750651}]} | N/A |

**Unit Test Case 20 (UTC-20):** getJSONArrayShowHelpPlacesInOnlineMap(JSONObjetc jsonOBJ): JSONArray

**Test date:** 20/10/2014

**Tested by:** Putchakarn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **JSON Array** | **JSON Array** |
| 1 | Test to get JSON array. | [{"id":1,"longitude":98.974209,"category":"Hospital","latitude":18.789602,"phoneNumber":"053-947700","address":"110 Suthep Rd, Mueang Chiang Mai, Chiang Mai, 50200","name":"Maharaj Nakorn Chiang Mai Hospital"},{"id":2,"longitude":98.991151,"category":"Hospital","latitude":18.812723,"phoneNumber":"053-999758","address":"Chang Phuak, Mueang Chiang Mai, Chiang Mai, 50300","name":"Lanna Hospital"},{"id":3,"longitude":99.506305,"category":"Hospital","latitude":18.285378,"phoneNumber":"054-237400","address":"Tambon Phrabat, Amphoe Mueang Lampang, Lampang, 52000","name":"Lampang Hospital"},{"id":4,"longitude":99.832526,"category":"Police Station","latitude":19.912221,"phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station"},{"id":5,"longitude":99.055108,"category":"Garage","latitude":18.750651,"phoneNumber":"053-242999","address":"Outer Ring Road, Saraphi District, Chiang Mai, 50000","name":"Ruangchai Yon Garage"}] | [{"id":1,"longitude":98.974209,"category":"Hospital","latitude":18.789602,"phoneNumber":"053-947700","address":"110 Suthep Rd, Mueang Chiang Mai, Chiang Mai, 50200","name":"Maharaj Nakorn Chiang Mai Hospital"},{"id":2,"longitude":98.991151,"category":"Hospital","latitude":18.812723,"phoneNumber":"053-999758","address":"Chang Phuak, Mueang Chiang Mai, Chiang Mai, 50300","name":"Lanna Hospital"},{"id":3,"longitude":99.506305,"category":"Hospital","latitude":18.285378,"phoneNumber":"054-237400","address":"Tambon Phrabat, Amphoe Mueang Lampang, Lampang, 52000","name":"Lampang Hospital"},{"id":4,"longitude":99.832526,"category":"Police Station","latitude":19.912221,"phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station"},{"id":5,"longitude":99.055108,"category":"Garage","latitude":18.750651,"phoneNumber":"053-242999","address":"Outer Ring Road, Saraphi District, Chiang Mai, 50000","name":"Ruangchai Yon Garage"}] | N/A |
| 2 | Test length of JSON array by input JSON Object | 5 | 5 | N/A |

**Unit Test Case 21 (UTC-21):** getJSONObjToSaveInDB(String url): JSONObject

**Test date:** 20/10/2014

**Tested by:** Putchakarn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **JSON Object** | **JSON Object** |
| 1 | Test to get JSON object. | {"HelpplacesInScope":[{"id":4,"category":"Police Station","phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station","longitude":99.832526,"latitude":19.912221}]} | {"HelpplacesInScope":[{"id":4,"category":"Police Station","phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station","longitude":99.832526,"latitude":19.912221}]} | N/A |
| 2 | Test to get JSON object. | {“HelpplacesInScope”[]} | {“HelpplacesInScope”[]} | N/A |

**Unit Test Case 22 (UTC-22):** getJSONArrayToSaveInDB (JSONObjetc jsonOBJ): JSONArray

**Test date:** 20/10/2014

**Tested by:** Putchakarn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **JSON Array** | **JSON Array** |
| 1 | Test to get JSON array. | [{"id":4,"category":"Police Station","phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station","longitude":99.832526,"latitude":19.912221}] | [{"id":4,"category":"Police Station","phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station","longitude":99.832526,"latitude":19.912221}] | N/A |
| 2 | Test to get JSON array. | Null | Null | N/A |

**Unit Test Case 23 (UTC-23):** findJSONObjNearestHelppalce (String url): JSONObject

**Test date:** 20/10/2014

**Tested by:** Putchakarn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **JSON Object** | **JSON Object** |
| 1 | Test to get JSON object. | {"NearestHelpPlace":[{"id":4,"category":"Police Station","phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station","longitude":99.832526,"latitude":19.912221}]} | {"NearestHelpPlace":[{"id":4,"category":"Police Station","phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station","longitude":99.832526,"latitude":19.912221}]} | N/A |
| 2 | Test to get JSON object. | {"NearestHelpPlace":[{"id":5,"category":"Garage","phoneNumber":"053-242999","address":"Outer Ring Road, Saraphi District, Chiang Mai, 50000","name":"Ruangchai Yon Garage","longitude":99.055108,"latitude":18.750651}]} | {"NearestHelpPlace":[{"id":5,"category":"Garage","phoneNumber":"053-242999","address":"Outer Ring Road, Saraphi District, Chiang Mai, 50000","name":"Ruangchai Yon Garage","longitude":99.055108,"latitude":18.750651}]} | N/A |

**Unit Test Case 24 (UTC-24):** findJSONArrayNearestHelppalce (JSONObjetc jsonOBJ): JSONArray

**Test date:** 20/10/2014

**Tested by:** Putchakarn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **JSON Array** | **JSON Array** |
| 1 | Test to get JSON array. | [{"id":4,"category":"Police Station","phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station","longitude":99.832526,"latitude":19.912221}] | [{"id":4,"category":"Police Station","phoneNumber":"053-603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police Station","longitude":99.832526,"latitude":19.912221}] | N/A |
| 2 | Test to get JSON array. | [{"id":5,"category":"Garage","phoneNumber":"053-242999","address":"Outer Ring Road, Saraphi District, Chiang Mai, 50000","name":"Ruangchai Yon Garage","longitude":99.055108,"latitude":18.750651}] | [{"id":5,"category":"Garage","phoneNumber":"053-242999","address":"Outer Ring Road, Saraphi District, Chiang Mai, 50000","name":"Ruangchai Yon Garage","longitude":99.055108,"latitude":18.750651}] | N/A |

**Unit Test Case 25 (UTC-25):** getNearestHelpPlace (JSONArray jsonArray,

JSONObject jsonObject): HelpPlace

**Test date:** 20/10/2014

**Tested by:** Putchakarn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **Help Place Object ID** | **Help Place Object ID** |
| 1 | Test to get nearest help place by input JSON object and JSON array | 4 | 4 | N/A |
| 2 | Test to get nearest help place by input JSON object and JSON array | 5 | 5 | N/A |

**Unit Test Case 26 (UTC-26):** getHelpPlacesList (JSONArray jsonArray,

JSONObject jsonObject): ArrayList<HelpPlace>

**Test date:** 20/10/2014

**Tested by:** Putchakarn

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **Array list of Help Place Object ID** | **Array list of Help Place Object ID** |
| 1 | Test to get all help places by input JSON object and JSON array | 1, 2, 3, 4, 5 | 1, 2, 3, 4, 5 | N/A |