

# Emergency Information on Mobile

## Test Record

By

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## Document History

Document Name	Details	Status	Date	Viewable	Reviewer	Responsible
<b>Documents</b>						
<b>EIOM-Test Record-V.0.1.docx</b>	<b>Chapter 1</b> <ul style="list-style-type: none"><li>Introduction</li></ul>	Draft	15/6/2014	PJ, SK, CD	PJ, SK	PJ, SK
<b>EIOM- Test Record - V.0.2.docx</b>	<b>Chapter 2</b> <ul style="list-style-type: none"><li>Server Part Unit Testing Record</li></ul>	Draft	16/6/2014	PJ, SK, CD	PJ, SK	PJ, SK
<b>EIOM- Test Record - V.0.3.docx</b>	<b>Chapter 2</b> <ul style="list-style-type: none"><li>Mobile Part Unit Testing Record</li></ul>	Draft	27/5/2014	PJ, SK, CD	PJ, SK	PJ, SK
<b>EIOM- Test Record - V.0.4.docx</b>	<b>Modify Chapter 2</b> <ul style="list-style-type: none"><li>Server Part Unit Testing Record</li></ul>	Draft	30/5/2014	PJ, SK, CD	PJ, SK	PJ, SK
<b>EIOM- Test Record - V.1.0.docx</b>	<ul style="list-style-type: none"><li>Add Table of content and cover page</li></ul>	Release	30/5/2014	PJ, SK, CD	PJ, SK	PJ, SK
<b>EIOM- Test Record - V.1.1.docx</b>	<ul style="list-style-type: none"><li>Modify chapter 1-2</li></ul>	Release	30/7/2014	PJ, SK, CD	PJ, SK	PJ, SK
<b>EIOM- Test Record - V.2.0.docx</b>	<ul style="list-style-type: none"><li>Remove UTC-12,13 of mobile part</li></ul>	Draft	21/10/2014	PJ, SK, CD	PJ, SK	PJ, SK
<b>EIOM- Test Record - V.2.0.docx</b>	<ul style="list-style-type: none"><li>Add UTC-12 – UTC-26</li></ul>	Release	21/10/2014	PJ, SK, CD	PJ, SK	PJ, SK
<b>EIOM- Test Record - V.3.0.docx</b>	<ul style="list-style-type: none"><li>Add Test record of system test</li></ul>	Release	11/12/2014	PJ, SK, CD	PJ, SK	PJ, SK

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

**Document name:** EIOM-Test Record-V.3.0.docx  
**Release Date:** 11/12/2014

**Document Type:** Test Record  
**Page:** 2 / 47

## Table of Content

Chapter One   Introduction .....	4
1.1 Purpose .....	4
1.2 Responsibility .....	4
Chapter Two  Unit Testing Record .....	5
2.1 Mobile Part Unit Testing Record.....	5
2.2 Server Part Unit Testing Record.....	9
Chapter Three  System Testing Record.....	20
3.1 Mobile Part System Testing Record .....	20
3.2 Server Part System Testing Record .....	33

# Chapter One | Introduction

## 1.1 Purpose

The purpose of test record for Emergency Information on Mobile project is for recording the actual result and Pass, Fail, N/A 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.

## 1.2 Responsibility

Item	Responsibility
Record unit test and system test of web application (Server Part)	Sawatdiporn
Record unit test and system test of mobile application (Mobile Part)	Putchakarn

## Chapter Two| Unit Testing Record

### 2.1 Mobile Part Unit Testing Record

#### 2.1.1 Class name for testing: HelpPlaceServiceImpl

**Unit Test Case Mobile 01 (UTCm-01):** testGetHelpPlaceByJsonOBJ (JSONObject jsonObj):JSONArray

**Test date:** 05/07/2014

**Tested by:** Putchakarn

Case	Description	Expected Result	Actual Result	Pass/Fail
		Size of JSON Array	Size of JSON Array	
1	Test to get JSON array size by input JSON object	1	1	Pass

**Unit Test Case Mobile 02 (UTCm-02):** testGetHelpPlaceByJsonOBJ (JSONObject jsonObj):JSONArray

**Test date:** 05/07/2014

**Tested by:** Putchakarn

Case	Description	Expected Result	Actual Result	Pass/Fail
		Size of HelpPlace Array	Size of HelpPlace Array	
1	Test get help place array's size	5	5	Pass

Case	Description	Expected Result					
		HelpPlace object					
		Id	Name	Address	Phone Number	Latitude	Longitude
1	Test to get help place object from device database	1	Maharaj Nakorn Chiang Mai Hospital	110 Suthep Rd, Mueang Chiang Mai District, Chiang Mai	053947700	18.789602	98.974209
2	Test to get help place object from device database	2	Lanna Hospital	Chang Phuak Amphoe Mueang Chiang Mai, Chang Wat Chiang Mai	053999758	18.812723	98.991151
3	Test to get help place object from device database	3	Muang Chiang Mai Police Station	Si Phum Mueang Chiang Mai District, Chiang Mai	053276040	18.788341	98.984755
4	Test to get help place object from device database	4	Chang Phueak Police Station	Mueang Chiang Mai District, Chiang Mai	053218443	18.818822	98.975520
5	Test to get help place object from device database	5	Kriangkrai Konlakan Garage	7/2, See Ping Mueang Road, Tambon Chang Khlan, Amphoe Mueang, Chiang Mai	053244599	18.771195	98.983062

Case	Actual Result						Pass/Fail
	HelpPlace object						
	Id	Name	Address	Phone Number	Latitude	Longitude	
1	1	Maharaj Nakorn Chiang Mai Hospital	110 Suthep Rd, Mueang Chiang Mai District, Chiang Mai	053947700	18.789602	98.974209	Pass
2	2	Lanna Hospital	Chang Phuak Amphoe Mueang Chiang Mai, Chang Wat Chiang Mai	053999758	18.812723	98.991151	Pass
3	3	Muang Chiang Mai Police Station	Si Phum Mueang Chiang Mai District, Chiang Mai	053276040	18.788341	98.984755	Pass
4	4	Chang Phueak Police Station	Mueang Chiang Mai District, Chiang Mai	053218443	18.818822	98.975520	Pass
5	5	Kriangkrai Konlakan Garage	7/2, See Ping Mueang Road, Tambon Chang Khlan, Amphoe Mueang, Chiang Mai	053244599	18.771195	98.983062	Pass

**Unit Test Case Mobile 03 (UTCm-03):** insertHelpPlace (ArrayList <HelpPlace> helpPlace) : int

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

**Tested by:** Putchakarn

Case	Description	Expected Result	Actual Result	Pass/Fail
		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 Mobile 04 (UTCm-04):** 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



## 2.2 Server Part Unit Testing Record

**Class name for testing:** HelpPlaceServiceImpl

**Unit Test Case Server 01 (UTCs-01):** getHelpPlaces():List<HelpPlace>

**Test date:** 04/07/2014

**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 all help place in database	1,2,3,4,5	1,2,3,4,5	Pass

**Unit Test Case Server 02 (UTCs-02):** findById(Integer id):HelpPlace

**Test date:** 04/07/2014

**Tested by:** Sawatdiporn

Case	Description	Expected Result								
		Help place object								
		Name	Address	District	Province	Zip code	Phone Number	Latitude	Longitude	Category
1	Test find help place by input ID which is in database	Maharaj Nakorn Chiang Mai Hospital	10 Suthep Rd	Mueang Chiang Mai	Chiang Mai	50200	053111111	18.789602	98.974209	Hospital

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**Release Date:** 11/12/2014

**Document Type:** Test Record

**Page:** 9 / 47

Case	Actual Result									Pass/Fail
	Help place object									
	Name	Address	District	Province	Zip code	Phone Number	Latitude	Longitude	Category	
1	Maharaj Nakorn Chiang Mai Hospital	10 Suthep Rd	Mueang Chiang Mai	Chiang Mai	50200	053111111	18.789602	98.974209	Hospital	Pass

Case	Description	Expected Result	Actual Result	Pass/Fail
		Help place object	Help Place object	
2	Test find help place by input ID which is not in database	null	null	Pass

**Unit Test Case Server 03 (UTCs-03):** `updateHelpPlace (HelpPlace helpPlace) :HelpPlace`

**Test date:** 04/07/2014

**Tested by:** Sawatdiporn

Case	Description	Expected Result								
		Help place object								
		Name	Address	District	Province	Zip code	Phone Number	Latitude	Longitude	Category
1	Test update help place into database	Maharaj Nakorn Chiang Mai Hospital	10 Suthep Rd	Mueang Chiang Mai	Chiang Mai	50200	053111111	18.789602	98.974209	Hospital

Case	Actual Result									Pass/Fail
	Help place object									
	Name	Address	District	Province	Zip code	Phone Number	Latitude	Longitude	Category	
1	Maharaj Nakorn Chiang Mai Hospital	10 Suthep Rd	Mueang Chiang Mai	Chiang Mai	50200	053111111	18.789602	98.974209	Hospital	Pass

**Unit Test Case Server 04 (UTCs-04):** deleteHelpPlace (HelpPlace helpPlace) :boolean

**Test date:** 05/07/2014

**Tested by:** Sawatdiporn

Case	Description	Expected Result	Actual Result	Pass/Fail
		Boolean	Boolean	
1	Test delete help place in database	true	true	Pass
2	Test delete help place in database	true	true	Pass
3	Test delete help place which not in database	false	false	Pass

**Unit Test Case Server 05 (UTCs-05):** `getHelpPlacesByCategory(Integer categoryId):List<HelpPlace>`

**Test date:** 05/07/2014

**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 place by input category id	1,2,3	1,2,3	Pass
2	Test get help place by input category id	5	5	Pass
3	Test get help place by input category id which is not in database	null	null	Pass

**Unit Test Case Server 06 (UTCs-06):** `getHelpPlacesByProvince(Integer provinceId):List<HelpPlace>`

**Test date:** 05/07/2014

**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 place by input province id	1,2,5	1,2,5	Pass
2	Test get help place by input province id	4	4	Pass
3	Test get help place by input province id which is not in database	null	null	Pass

**Unit Test Case Server 07 (UTCs-07):** `getHelpPlacesByCategoryAndProvince(Integer categoryId, Integer`

**Test date:** 05/07/2014

**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 place by input category id and province id	1, 2	1, 2	Pass
2	Test get help place by input category id and province id	3	3	Pass
3	Test get help place by input category id and province id which is not in database	null	null	Pass
4	Test get help place by input category id and province id which is not in database	null	null	Pass

**Class name for testing:** CategoryServiceImpl

**Unit Test Case Server 08 (UTCs-08):** `getCategories():List<Category>`

**Test date:** 05/07/2014

**Tested by:** Sawatdiporn

Case	Description	Expected Result	Actual Result	Pass/Fail
		List of province object	List of province object	
		ID	ID	
1	Test get all categories in database	1, 2, 3	1, 2, 3	Pass

**Unit Test Case Server 09 (UTCs-09):** getCategoryById (Integer id) : Category

**Test date:** 05/07/2014

**Tested by:** Sawatdiporn

Case	Description	Expected Result	Actual Result	Pass/Fail
		Category object	Category object	
		ID	ID	
1	Test find category by input ID which is in database	1	1	Pass
2	Test find category by input ID which is not in database	null	null	Pass

**Class name for testing:** ProvinceServiceImpl

**Unit Test Case Server 10 (UTCs-10):** getProvinces () :List<Province>

**Test date:** 05/07/2014

**Tested by:** Sawatdiporn

Case	Description	Expected Result	Actual Result	Pass/Fail
		List of province object	List of province object	
		ID	ID	
1	Test get all provinces in database	1, 2, 3	1, 2, 3	Pass

**Unit Test Case Server 11 (UTCs-11):** `getProvinceById (Integer id) :Province`

**Test date:** 05/07/2014

**Tested by:** Sawatdiporn

Case	Description	Expected Result	Actual Result	Pass/Fail
		Province object	Province object	
		ID	ID	
1	Test find province by input ID which is in database	1	1	Pass
2	Test find province by input ID which is not in database	null	null	Pass

**Class name for testing:** HelpPlaceServiceImpl

**Unit Test Case Server 12 (UTCs-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 Server 13 (UTCs-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 Server 14 (UTCs-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 Server 15 (UTCs-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 Server 16 (UTCs-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

**Class name for testing:** HelpPlaceServiceImpl

**Unit Test Case Server 17 (UTCs-17):** calculateAverageRate(Integer id, double score):HelpPlace

**Test date:** 10/12/2014

**Tested by:** Sawatdiporn

Case	Description	Expected Result	Actual Result	Pass/Fail
		New average rating score (double)	New average rating score (double)	
1	Test calculates new help place's average rating score.	3.5	3.5	Pass
2	Test calculates new help place's average rating score.	3.25	3.25	Pass

**Class name for testing:** AdminServiceImpl

**Unit Test Case Server 18 (UTCs-18):** `findByName(String name):Admin`

**Test date:** 10/12/2014

**Tested by:** Sawatdiporn

Case	Description	Expected Result	Actual Result	Pass/Fail
		Admin object ID	Admin object ID	
1	Test get admin by input name which has in the database	1	1	Pass
2	Test get admin by input name which does not has in the database	null	null	Pass

**Unit Test Case Server 19 (UTCs-19):** `saveUser(Admin admin):Admin`

**Test date:** 10/12/2014

**Tested by:** Sawatdiporn

Case	Description	Expected Result		Actual Result		Pass/Fail
		Admin object		Admin object		
		Name	Password	Name	Password	
1	Test update admin into database	Admin	21232f297a57a5a743894a0e4a801fc3	Admin	21232f297a57a5a743894a0e4a801fc3	Pass

## Chapter Three| System Testing Record

### 3.1 Mobile Part System Testing Record

**System Test Case Mobile 01 (STCm-01): User can view the online map with their current location**

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

#### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System shows the online map and provides the user's current location. The coordinate is shown the marker at latitude 98.974210 and 18.789610 on the map.	System shows the online map and provides the user's current location. The coordinate is shown the marker at latitude 98.974210 and 18.789610 on the map.	Pass

### System Test Case Mobile 02 (STCm-02): User can view the offline map with their current location

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

#### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System shows the offline map and provides the user's current location. The coordinate is shown the marker at latitude 98.95166 and 18.8005956 on the map.	System shows the offline map and provides the user's current location. The coordinate is shown the marker at latitude 98.95166 and 18.8005956 on the map.	Pass

### System Test Case Mobile 03 (STCm-03): User can view help places in online map

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

#### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System retrieves all help places from server and shows marker that located in the visible on device <ul style="list-style-type: none"><li>• Maharaj Nakorn Chiang Mai Hospital</li><li>• Chiangmai Ram Hospital</li><li>• Chiang Mai Main Police Station</li></ul>	System retrieves all help places from server and shows marker that located in the visible on device <ul style="list-style-type: none"><li>• Maharaj Nakorn Chiang Mai Hospital</li><li>• Chiangmai Ram Hospital</li><li>• Chiang Mai Main Police Station</li></ul>	Pass

## System Test Case Mobile 04 (STCm-04): User can view help places in offline map

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System retrieves help places from database and shows <ul style="list-style-type: none"><li>• Kiangkrai Konlakan Garage</li><li>• Muang Chiang Mai Police Station</li><li>• Maharaj Nakorn Chiang Mai Hospital</li><li>• Lanna Hospital</li><li>• Chang Phueak Police Station</li></ul> in the offline map	System retrieves help places from database and shows <ul style="list-style-type: none"><li>• Kiangkrai Konlakan Garage</li><li>• Muang Chiang Mai Police Station</li><li>• Maharaj Nakorn Chiang Mai Hospital</li><li>• Lanna Hospital</li><li>• Chang Phueak Police Station</li></ul> in the offline map	Pass

## System Test Case Mobile 05 (STCm-05): User can view help information of each help place in online map

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System shows information of “Lanna Hospital”. <b>Name</b> as “Lanna Hospital” <b>Phone Number</b> as “053-999758” <b>Address</b> as “Chang Phuak, Mueang Chiang Mai, Chiang Mai, 50300” <b>Latitude</b> as “98.991151” <b>Longitude</b> as “18.812723” <b>Rating score</b> as “5”	System shows information of “Lanna Hospital”. <b>Name</b> as “Lanna Hospital” <b>Phone Number</b> as “053-999758” <b>Address</b> as “Chang Phuak, Mueang Chiang Mai, Chiang Mai, 50300” <b>Latitude</b> as “98.991151” <b>Longitude</b> as “18.812723” <b>Rating score</b> as “5”	Pass

## System Test Case Mobile 06 (STCm-06): User can view help information of each help place in offline map

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System shows information of “Maharaj Nakorn Chiang Mai Hospital” <b>Name</b> as “Maharaj Nakorn Chiang Mai Hospital” <b>Phone Number</b> as “053-999758” <b>Address</b> as “110 Suthep Rd, Mueang Chiang Mai, Chiang Mai, 50201” <b>Latitude</b> as “98.974209” <b>Longitude</b> as “18.789602” <b>Rating score</b> as “5”	System shows information of “Maharaj Nakorn Chiang Mai Hospital” <b>Name</b> as “Maharaj Nakorn Chiang Mai Hospital” <b>Phone Number</b> as “053-999758” <b>Address</b> as “110 Suthep Rd, Mueang Chiang Mai, Chiang Mai, 50201” <b>Latitude</b> as “98.974209” <b>Longitude</b> as “18.789602” <b>Rating score</b> as “5”	Pass



### **System Test Case Mobile 07 (STCm-07): User can make emergency call to each help place in online map**

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

#### **Test Cases**

<b>Case</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Pass/Fail</b>
1	System display the connection of telephone service with 053999758 and system is calling from the application to 053999758	System display the connection of telephone service with 053999758 and system is calling from the application to 053999758	Pass

### **System Test Case Mobile 08 (STCm-08): User can make emergency call to each help place in offline map**

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

#### **Test Cases**

<b>Case</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Pass/Fail</b>
1	System display the connection of telephone service with 053947700 and system is calling from the application to 053947700	System display the connection of telephone service with 053947700 and system is calling from the application to 053947700	Pass

## **System Test Case Mobile 09 (STCm-09): User can search help place's name by keyword in online map**

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

### **Test Cases**

<b>Case</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Pass/Fail</b>
1	System shows list of name in the system “Maharaj Nakorn Chiang Mai Hospital”	System shows list of name in the system “Maharaj Nakorn Chiang Mai Hospital”	Pass
2	System shows empty list	System shows empty list	Pass
3	System shows the list of all help places in Appendix test data 5	System shows the list of all help places in Appendix test data 5	Pass

## System Test Case Mobile 10 (STCm-10): User can find the nearest help place by selection the category in online map

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System shows “Maharaj Nakorn Chiang Mai Hospital”	System shows “Maharaj Nakorn Chiang Mai Hospital”	Pass
2	System shows “Chiang Mai Main Police Station” preview information of help by showing name and address	System shows “Chiang Mai Main Police Station” preview information of help by showing name and address	Pass
3	System shows “SN Body Service” preview information of help by showing name and address	System shows “SN Body Service” preview information of help by showing name and address	Pass
	System shows “Chiang Mai Provincial Highway Police Station” preview information of help by showing name and address	System shows “Chiang Mai Provincial Highway Police Station” preview information of help by showing name and address	Pass

### System Test Case Mobile 11 (STCm-11): User can set the scope for downloading data

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

#### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System display in setting scope dialouge, it select "15 KM"	System display in setting scope dialouge, it select "15 KM"	Pass

### System Test Case Mobile 12 (STCm-12): Mobile application can collect help place information automatically

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

#### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System collect help places to save into database <ul style="list-style-type: none"><li>• Hospital in range</li><li>• Police station in rang</li><li>• Garage in rang</li><li>• Highway police station in rang</li></ul>	System collect help places to save into database <ul style="list-style-type: none"><li>• Hospital in range</li><li>• Police station in rang</li><li>• Garage in rang</li><li>• Highway police station in rang</li></ul>	N/A

**System Test Case Mobile 13 (STCm-13): User can view the route of distance between the current locations of user to the destination**

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

**Test Cases**

Case	Expected Result	Actual Result	Pass/Fail
1	System displays polyline on the map of distance from current location to destination.	System displays polyline on the map of distance from current location to destination.	Pass

**System Test Case Mobile 14 (STCm-14): User can view details of each point on routing the direction**

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

**Test Cases**

Case	Expected Result	Actual Result	Pass/Fail
1	System displays popup dialogue to show details of each point by providing time, distance per each point, average time and average distance.	System displays popup dialogue to show details of each point by providing time, distance per each point, average time and average distance.	Pass

## System Test Case Mobile 15 (STCm-15): User can view average rating score of each help place in online map

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System shows information of “SN Body Service”. <b>Name</b> as “SN Body Service” <b>Phone Number</b> as “053-202849” <b>Address</b> as “14/12 Mahidol Rd., Mueang Chiang Mai District, Chiang Mai, 50100” <b>Latitude</b> as “98.985429” <b>Longitude</b> as “18.767368” <b>Rating score</b> as “5.0”	System shows information of “SN Body Service”. <b>Name</b> as “SN Body Service” <b>Phone Number</b> as “053-202849” <b>Address</b> as “14/12 Mahidol Rd., Mueang Chiang Mai District, Chiang Mai, 50100” <b>Latitude</b> as “98.985429” <b>Longitude</b> as “18.767368” <b>Rating score</b> as “5.0”	Pass

## System Test Case Mobile 16 (STCm-16): User can view average rating score of each help place in offline map

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System shows information of “SN Body Service”. <b>Name</b> as “SN Body Service” <b>Phone Number</b> as “053-202849” <b>Address</b> as “14/12 Mahidol Rd., Mueang Chiang Mai District, Chiang Mai, 50100” <b>Latitude</b> as “98.985429” <b>Longitude</b> as “18.767368” <b>Rating score</b> as “5.0”	System shows information of “SN Body Service”. <b>Name</b> as “SN Body Service” <b>Phone Number</b> as “053-202849” <b>Address</b> as “14/12 Mahidol Rd., Mueang Chiang Mai District, Chiang Mai, 50100” <b>Latitude</b> as “98.985429” <b>Longitude</b> as “18.767368” <b>Rating score</b> as “5.0”	Pass

## System Test Case Mobile 17 (STCm-17): User can rate the help place in online map

**Test Date:** 9/12/2014

**Test By:** Putchakarn Jaikon

### Test Cases

Case	Expected Result	Actual Result	Pass/Fail
1	System refresh new average rating score as “5.0” to show on screen	System refresh new average rating score as “5.0” to show on screen	Pass
2	System display show the original score “5.0”	System display show the original score “5.0”	Pass



## 3.2 Server Part System Testing Record

**System Test Case server 01 (STCs-01):** The administrator can add help place's information, which include name, address, district, province, zip code, phone number, category, latitude and longitude.

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitiro

### Test Cases

Case	Description	Expected Result	Actual Result	Pass/Fail
1	Test add by input new help place information with valid format	When add successful, the system shall show successful message "The help place has been added to database".	When add successful, the system shall show successful message "The help place has been added to database".	Pass
2	Test add by input new help place information with invalid format	The system shall show error message to input information again "The phone number length should be 9-10 characters".	The system shall show error message to input information again "The phone number length should be 9-10 characters".	Pass

**System Test Case server 02 (STCs-02):** The administrator can edit help place's information, which include name, address, district, province, zip code, phone number, category, latitude and longitude.

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirod

**Test Cases**

Case	Description	Expected Result	Actual Result	Pass/Fail
1	Test edit information of help place with valid format	When edit successful, the system shall show successful message "The help place has been added to database".	When edit successful, the system shall show successful message "The help place has been added to database".	Pass
2	Test edit information of help place with invalid format	The system shall show error message to input information again "The phone number length should be 9-10 characters".	The system shall show error message to input information again "The phone number length should be 9-10 characters".	Pass

**System Test Case server 03 (STCm-03): The administrator can remove help place.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitiro

**Test Cases**

<b>Case</b>	<b>Description</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Pass/Fail</b>
1	Test remove a help place out of the system by select “Maharaj Nakorn Chiang Mai Hospital”	When remove successful, the system shall show successful message “The help place has been removed!”, and the help place does not show on home page.	When remove successful, the system shall show successful message “The help place has been removed!”, and the help place does not show on home page.	Pass
2	Test remove a help place out of the system by select “Chiang Mai Main Police Station”	When remove successful, the system shall show successful message “The help place has been removed!”, and the help place does not show on home page.	When remove successful, the system shall show successful message “The help place has been removed!”, and the help place does not show on home page.	Pass

**System Test Case server 04 (STCs-04): The administrator can view help information of each help place.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirod

**Test Cases**

Case	Description	Expected Result	Actual Result	Pass/Fail
1	Test view information of “Maharaj Nakorn Chiang Mai Hospital” help place	System shows information of “Maharaj Nakorn Chiang Mai Hospital”. Name = Maharaj Nakorn Chiang Mai Hospital Address = Ban Kan Rd. District = Mueang Chiang Mai Zipcode = 50200 Province = Chiang Mai Phone Number = 053-947700 Latitude = 18.789602 Longitude = 98.974209 Category =Hospital	System shows information of “Maharaj Nakorn Chiang Mai Hospital”. Name = Maharaj Nakorn Chiang Mai Hospital Address = Ban Kan Rd. District = Mueang Chiang Mai Zipcode = 50200 Province = Chiang Mai Phone Number = 053-947700 Latitude = 18.789602 Longitude = 98.974209 Category =Hospital	Pass
2	Test view information of “Chiang Mai Main Police Station” help place	System shows information of “Chiang Mai Main Police Station”. Name = Chiang Mai Main Police Station Address = 169 Ratchadamnoen Rd. District = Mueang Chiang Mai District Zipcode = 50200 Province = Chiang Mai Phone Number = 053-814313 Latitude = 18.8083976	System shows information of “Chiang Mai Main Police Station”. Name = Chiang Mai Main Police Station Address = 169 Ratchadamnoen Rd. District = Mueang Chiang Mai District Zipcode = 50200 Province = Chiang Mai Phone Number = 053-814313 Latitude = 18.8083976	Pass

		Longitude = 98.9764103 Category = Police Station Average Rate = 4.5	Longitude = 98.9764103 Category = Police Station Average Rate = 4.5	
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**System Test Case server 05 (STCs-05): The administrator can browse the help place by category.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitiro

#### Test Cases

Case	Description	Expected Result	Actual Result	Pass/Fail
1	Test browse help places by select "Garage"	<p>System shows list of help places which are Ruangchai Yon Garage, Nakornping Workshop Garage, Wirut Garage, VN Auto Body, and SN Body Service. Name = Ruangchai Yon Garage Province = Chiang Mai Category = Garage</p> <p>Name = Nakornping Workshop Garage Province = Chiang Mai Category = Garage</p> <p>Name= Wirut Garage Province = Chiang Mai Category = Garage</p>	<p>System shows list of help places which are Ruangchai Yon Garage, Nakornping Workshop Garage, Wirut Garage, VN Auto Body, and SN Body Service. Name = Ruangchai Yon Garage Province = Chiang Mai Category = Garage</p> <p>Name = Nakornping Workshop Garage Province = Chiang Mai Category = Garage</p> <p>Name= Wirut Garage Province = Chiang Mai Category = Garage</p>	Pass

		Name = VN Auto Body Province = Chiang Mai Category = Garage  Name = SN Body Service Province = Chiang Mai Category = Garage	Name = VN Auto Body Province = Chiang Mai Category = Garage  Name = SN Body Service Province = Chiang Mai Category = Garage	
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**System Test Case server 06 (STCs-06): The administrator can browse the help place by province of Thailand.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirot

#### Test Cases

Case	Description	Expected Result	Actual Result	Pass/Fail
1	Test browse help places by select "Chiang Rai"	System shows help place "Chiang Rai Police Station" Name = Chiang Rai Police Station Province = Chiang Rai Category = Police Station	System shows help place "Chiang Rai Police Station" Name = Chiang Rai Police Station Province = Chiang Rai Category = Police Station	Pass

**System Test Case server 07 (STCs-07): The administrator can browse the help place by category and province of Thailand.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirot

**Test Cases**

<b>Case</b>	<b>Description</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Pass/Fail</b>
1	Test browse help places by select "Hospital" in "Lampang"	System shows help place "Lampang Hospital" Name = Lampang Hospital Province = Lampang Category = Hospital	System shows help place "Lampang Hospital" Name = Lampang Hospital Province = Lampang Category = Hospital	Pass
2	Test browse help places by select "Police Station" in "Chiang Rai"	System shows help place "Chiang Rai Police Station" Name = Chiang Rai Police Station Province = Chiang Rai Category = Police Station	System shows help place "Chiang Rai Police Station" Name = Chiang Rai Police Station Province = Chiang Rai Category = Police Station	Pass

**System Test Case server 08 (STCs-08): The administrator can login to the system.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirot

**Test Cases**

<b>Case</b>	<b>Description</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Pass/Fail</b>
1	Test login to the system with valid username and password	If login successful, the system shall show home page of the Emergency Information Web Application.	If login successful, the system shall show home page of the Emergency Information Web Application.	Pass
2	Test login to the system with invalid username and password	The system shall show error message "You have entered an invalid username or password!"	The system shall show error message "You have entered an invalid username or password!"	Pass



**System Test Case server 09 (STCs-09): The administrator can logout of the system.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirod

**Test Cases**

Case	Description	Expected Result	Actual Result	Pass/Fail
1	Test logout of system	If logout successful, the system shall show login page of the Emergency Information Web Application.	If logout successful, the system shall show login page of the Emergency Information Web Application.	Pass

**System Test Case server 10 (STCs-10): The administrator can update their account's password.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirod

**Test Cases**

Case	Description	Expected Result	Actual Result	Pass/Fail
1	Test update password of administrator	If update successful, the system shall show home page of the Emergency Information Web Application.	If update successful, the system shall show home page of the Emergency Information Web Application.	Pass

**System Test Case server 11 (STCs-11): The mobile application can get list of all help places in the database.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirot

**Test Cases**

Cas e	Descriptio n	Expected Result
1	Test get list of all help places in the database in form of JSON.	<pre>{   "Helpplaces": [     {       "id": 1,       "category": "Police Station",       "phoneNumber": "053-947700",       "address": "110 Suthep Rd, Mueang Chiang Mai, Chiang Mai, 50201",       "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     },     {       "id": 6,       "category": "Hospital",       "phoneNumber": "053-220022",       "address": "1/7 Changpuek, Mueang Chiang Mai District, Chiang Mai, 50200",       "name": "Changpuek Hospital",       "longitude": 98.986944,       "latitude": 18.798967     },     {       "id": 7,       "category": "Hospital",       "phoneNumber": "053\u20132013920300",       "address": "8 Boonreungrit Rd., Mueang Chiang Mai District, Chiang Mai, 50200",       "name": "Chiangmai Ram Hospital",       "longitude": 98.977693,       "latitude": 18.794931     },     {       "id": 8,       "category": "Hospital",       "phoneNumber": "053-272788",       "address": "158 Pardat, Mueang Chiang Mai District, Chiang Mai, 50100",       "name": "Chiangmai Klaimor Hospital",       "longitude": 98.972035,       "latitude": 18.760426     },     {       "id": 9,       "category": "Highway Police Station",       "phoneNumber": "053-242441",       "address": "Inburi-Chaingmai Rd., Muang Chiang Mai District, Chiang Mai, 50000",       "name": "Chiang Mai Provincial Highway Police Station",       "longitude": 99.002148,       "latitude": 18.7893955     },     {       "id": 10,       "category": "Police Station",       "phoneNumber": "053-218445",       "address": "120/2 Chotana Rd., Mueang Chiang Mai District, Chiang Mai, 50200",       "name": "Chang Phuak Police Station",       "longitude": 98.975552,       "latitude": 18.818797     },     {       "id": 11,       "category": "Police"     }   ] }</pre>

	<p>Station","phoneNumber":"053-814313","address":"169 Ratchadamnoen Rd., Mueang Chiang Mai District, Chiang Mai, 50200","name":"Chiang Mai Main Police</p> <p>Station","longitude":98.9764103,"latitude":18.8083976},{ "id":12,"category":"Police Station","phoneNumber":"053-275704","address":"184 Moo 3, Chiang Mai-Lamphun Rd., Mueang Chiang Mai, Chiang Mai, 50200","name":"Mae Ping Police Station","longitude":99.009687,"latitude":18.751725},{ "id":13,"category":"Police Station","phoneNumber":"053-211750","address":"194 Moo 1, Huai Kaew Rd., Chang Phuak, Chiang Mai, 50300","name":"Phu Ping Ratchaniwet Police Station","longitude":98.8986879,"latitude":18.8061444},{ "id":14,"category":"Garage","phoneNumber":"053-491777","address":"6 259, San Na Meng, San Sai District, Chiang Mai, 50210","name":"Nakornping Workshop Garage","longitude":99.072494,"latitude":18.84407},{ "id":15,"category":"Garage","phoneNumber":"053-396617","address":"4/1 San Sai, Chiang Mai, Chiang Mai, 50210","name":"Wirut Garage","longitude":99.038605,"latitude":18.843677},{ "id":16,"category":"Garage","phoneNumber":"053-805900","address":"178 Mae Hia, Mueang Chiang Mai District, Chiang Mai, 50100","name":"VN Auto Body","longitude":98.987728,"latitude":18.703818},{ "id":17,"category":"Garage","phoneNumber":"053-202849","address":"14/12 Mahidol Rd., Mueang Chiang Mai District, Chiang Mai, 50100","name":"SN Body Service","longitude":98.985429,"latitude":18.767368},{ "id":19,"category":"Hospital","phoneNumber":"11111111","address":"Ww, ww, Chiang Mai, 11111","name":"ww","longitude":-2.1073632846557757,"latitude":34.95633002033548}}}</p>
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Actual Result	Pass/Fail
{"Helpplaces":[{"id":1,"category":"Police Station","phoneNumber":"053-947700","address":"110 Suthep Rd, Mueang Chiang Mai, Chiang Mai, 50201","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},{ "id":6,"category":"Hospital","phoneNumber":"053-220022","address":"1/7 Changpuek, Mueang Chiang Mai District, Chiang Mai, 50200","name":"Changpuek Hospital","longitude":98.986944,"latitude":18.798967},{ "id":7,"category":"Hospital","phoneNumber":"053\u20132013920300","add	Pass

<p>ress":"8 Boonreungrit Rd., Mueang Chiang Mai District, Chiang Mai, 50200","name":"Chiangmai Ram Hospital","longitude":98.977693,"latitude":18.794931},{ "id":8,"category":"Hospital","phoneNumber":"053-272788","address":"158 Pardat, Mueang Chiang Mai District, Chiang Mai, 50100","name":"Chiangmai Klaimor Hospital","longitude":98.972035,"latitude":18.760426},{ "id":9,"category":"Highway Police Station","phoneNumber":"053-242441","address":" Inburi-Chaingmai Rd., Muang Chiang Mai District, Chiang Mai, 50000","name":"Chiang Mai Provincial Highway Police Station","longitude":99.002148,"latitude":18.7893955},{ "id":10,"category":"Police Station","phoneNumber":"053-218445","address":"120/2 Chotana Rd., Mueang Chiang Mai District, Chiang Mai, 50200","name":"Chang Phuak Police Station","longitude":98.975552,"latitude":18.818797},{ "id":11,"category":"Police Station","phoneNumber":"053-814313","address":"169 Ratchadamnoen Rd., Mueang Chiang Mai District, Chiang Mai, 50200","name":"Chiang Mai Main Police Station","longitude":98.9764103,"latitude":18.8083976},{ "id":12,"category":"Police Station","phoneNumber":"053-275704","address":"184 Moo 3, Chiang Mai-Lamphun Rd., Mueang Chiang Mai, Chiang Mai, 50200","name":"Mae Ping Police Station","longitude":99.009687,"latitude":18.751725},{ "id":13,"category":"Police Station","phoneNumber":"053-211750","address":"194 Moo 1, Huai Kaew Rd., Chang Phuak, Chiang Mai, 50300","name":"Phu Ping Ratchaniwet Police Station","longitude":98.8986879,"latitude":18.8061444},{ "id":14,"category":"Garage","phoneNumber":"053-491777","address":"6 259, San Na Meng, San Sai District, Chiang Mai, 50210","name":"Nakornping Workshop Garage","longitude":99.072494,"latitude":18.84407},{ "id":15,"category":"Garage","phoneNumber":"053-396617","address":"4/1 San Sai, Chiang Mai, Chiang Mai, 50210","name":"Wirut Garage","longitude":99.038605,"latitude":18.843677},{ "id":16,"category":"Garage","phoneNumber":"053-805900","address":"178 Mae Hia, Mueang Chiang Mai District, Chiang Mai, 50100","name":"VN Auto Body","longitude":98.987728,"latitude":18.703818},{ "id":17,"category":"Garage","phoneNumber":"053-202849","address":"14/12 Mahidol Rd., Mueang Chiang Mai District, Chiang Mai, 50100","name":"SN Body Service","longitude":98.985429,"latitude":18.767368},{ "id":19,"category":"Hospital","phoneNumber":"11111111","address":"Ww, ww, Chiang Mai, 11111","name":"ww","longitude":-2.1073632846557757,"latitude":34.95633002033548}}]</p>	
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**System Test Case server 12 (STCs-12): The mobile application can get the nearest help place by the selected category.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirot

**Test Cases**

Case	Description	Expected Result
1	Test get the nearest help place of location (18.789643, 98.969758) and select "Hospital" category, in JSON form.	{"NearestHelpPlace": [{"id":1,"averageRate":5,"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} ]}

Actual Result	Pass/Fail
{"NearestHelpPlace": [{"id":1,"averageRate":5,"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} ]}	Pass

**System Test Case server 13 (STCs-13): The mobile application can get list of help places where locate in the setting scope.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirot

**Test Cases**

Case	Description	Expected Result
1	Test get list of help places where locate in scope of 1000 meters around the location (18.789643, 98.969758), in JSON form.	{"HelpplacesInScope":[{"id":1,"averageRate":5,"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}]}

Actual Result	Pass/Fail
{"HelpplacesInScope":[{"id":1,"averageRate":5,"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}]}	Pass

**System Test Case server 14 (STCs-14): The mobile application can retrieve the help place with new average rating score.**

**Test Date:** 9/12/2014

**Test By:** Sawatdiporn Kitirot

**Test Cases**

Case	Description	Expected Result
1	Test get help place of ID= 1 and give rating score = 2	{"HelpplaceNewAverageRate":[{"id":1,"averageRate":3.5,"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}]}

Expected Result	Pass/Fail
{"HelpplaceNewAverageRate":[{"id":1,"averageRate":3.5,"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}]}	Pass