### Chapter 6 Test Record

### **Emergency Information** on Mobile

Test Record

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### **Document History**

<b>Document Name</b>	Details	Status	Date	Viewable	Reviewer	Responsible
Documents						
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**Release Date:** 26/12/2014 **Page:** 3 / 49

### **Table of Content**

Chapte	er One   Introduction	5
_	Purpose	
	Responsibility	
	er Two  Unit Testing Record	
2.1 N	Mobile Part Unit Testing Record	6
2.2 S	Server Part Unit Testing Record	10
Chapte	er Three  System Testing Record	22
3.1 N	Mobile Part System Testing Record	22
3.2 S	Server Part System Testing Record	35

**Document Type:** Test Record **Page:** 4 / 49 **Document name:** EIOM-Test Record-V.3.0.docx

**Release Date:** 26/12/2014

### **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	Sawatdiporn
(Server Part)	
Record unit test and system test of mobile	Putchakarn
application (Mobile Part)	

### 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

(		Expected Result	Actual Result	: E
Case	Description	Size of JSON Array	Size of JSON Array	Pass/Fail
1	Test to get JSON array size by input	-	-	Dogs
٦ -	JSON object	-	<b>-</b>	Г <i>4</i> 55

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

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

Tested by: Putchakarn

ıse	Description	Expected Result Size of HelpPlace Array	y Size of HelpPlace Array	Pass/Fail
	Test get help place array's size	5	5	Pass

	Description			<b>Expected Result</b>	esult		
Case				HelpPlace object	bject		
		PΙ	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

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

Document Type: Test Record
Page: 7/49

			Actual Result				
Case			HelpPlace object				Pass/Fail
	ΡI	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	S	Kriangkrai Konlakan Garage	7/2, See Ping Mueang Road, Tambon Chang Khlan, Amphoe Mueang, Chiang Mai	053244599	18.771195	98.983062	Pass

Document Type: Test Record
Page: 8 / 49

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

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

**Tested by:** Putchakarn

		Expected Result	Actual Result	
Case	Description	List of Help Places ID	List of Help Places ID	Pass/Fail
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

Description	Expected Result Boolean	Actual Result Boolean	Pass/Fail	
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

		Expected Result	Actual Result	
Case	Description	List of help place object	List of help place object   List of help place object   Pass/Fail	Pass/Fail
		ID	(II	
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

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

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

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

					Г
J. S.		<b>Expected Result</b>	Actual Result	D (T.)	
Describnon		Help place object	Help Place object	rass/raii	
Fest find help place by input ID which is not in database	database	llun	Ilun	Pass	

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

Unit Test Case Server 03 (UTCs-03): updateHelpPlace (HelpPlace helpPlace): HelpPlace Test date: 04/07/2014
Tested by: Sawatdiporn

				F	<b>Expected Result</b>	sult			
Case	Description			H	Help place object	bject			
		Name	Address	Province	Zip code	District   Province   Zip code   Phone Number   Latitude   Longitude   Category	Latitude	Longitude	Category
-	Test update help place into database	Maharaj Nakorn Chiang Mai Hospital	10 Suthep Rd	Chiang Mai	50200	053111111	18.789602	18.789602 98.974209	Hospital

		•	- T	71				
		A	Actual Kesult	sult				
		Hel	Help place object	bject				Pace/Fail
	District	Province	Zip code	Province         Zip         Phone Number         Latitude         Longitude         Category           code         code	Latitude	Longitude	Category	1 435/1 411
14 44	10 Suthep Rd Mueang Chiang Mai	Chiang Mai	50200	053111111	18.789602	18.789602 98.974209 Hospital	Hospital	Pass

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

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

Tested by: Sawatdiporn

2	D. C.	<b>Expected Result</b>	Actual Result	Desc/Eq.
Case	Describnon	Boolean	Boolean	rass/raii
1	Test delete help place in database	true	ann	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

		Expected Result	Actual Result	
Case	Description	List of help place object	List of help place object	Pass/Fail
		Œ	(II	
1	Test get help place by input category id	1,2,3	1,2,3	Pass
2	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	llun	Pass

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

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

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

Tested by: Sawatdiporn

		Expected Result	Actual Result	
Case	Description	List of help place object	List of help place object   Pass/Fail	Pass/Fail
		ID	ID	
1	Test get help place by input province id	1,2,5	1,2,5	Pass
2	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	llun	lluu	Pass

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

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

Tested by: Sawatdiporn

		<b>Expected Result</b>	Actual Result	
Case	Description	List of help place object	List of help place object   Pass/Fail	Pass/Fail
		ID	Œ	
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	[[nu	llun	Pass
4	Test get help place by input category id and province id which is not in database	[[nu	lluu	Pass

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

Document Type: Test Record
Page: 14/49

Document Type: Test Record

**Document name:** EIOM-Test Record-V.3.0.docx

**Release Date:** 26/12/2014

Class name for testing: CategoryServiceImpl Unit Test Case Server 08 (UTCs-08): getCategories ():List<Category>

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

Tested by: Sawatdiporn

		Expected Result	Actual Result	
Case	Description	List of province object	List of province object   List of province object	Pass/Fail
		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

		Expected Result   Actual Result	Actual Result	
Case	Description	Category object	Category object   Category object   Pass/Fail	Pass/Fail
		ID	(II	
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	lluu	[[nu	Pass

Document Type: Test Record

**Document name:** EIOM-Test Record-V.3.0.docx

**Release Date:** 26/12/2014

Class name for testing: ProvinceServiceImpl

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

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

**Tested by:** Sawatdiporn

		Expected Result	Actual Result	
Case	Description	List of province object	List of province object	Pass/Fail
		Œ	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

		Expected Result   Actual Result	Actual Result	
Case	Description	Province object	Province object   Province object   Pass/Fail	Pass/Fail
		ID	(II)	
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	llun	lluu	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

		<b>Expected Result</b>	Actual Result	
Case	Description	List of help place object	List of help place object	Pass/Fail
		ID	ID	
	Test find nearest help place by input category's ID which is in database	1	1	Pass
	Test find nearest help place by input category's ID which is not in database	lluu	lluu	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

		<b>Expected Result</b>	Actual Result	
	Description	List of help place object	List of help place object	Pass/Fail
		OI	(II	
	Test get help places by input scope which have help place locate	-	1	Pass
l	Test get help places by input scope which have help place locate	1,2	1,2	Pass
	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 Latitude surface distance	Actual Result Latitude surface distance	Pass/Fail
	Test get latitude surface distance by input latitude	110649.0	110649.0	Pass
6)	Test get latitude surface distance by input latitude	110649.0	110649.0	Pass

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

Document Type: Test Record
Page: 18/49

Unit Test Case Server 15 (UTCs-15): getLongitudeDistance (double longitude) : double

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

Tested by: Sawatdiporn

	Expected Result	Actual Result	
Description	Longitude surface distance	Longitude surface distance	Pass/Fail
Test get longitude surface distance by input latitude	107551.0	107551.0	Pass
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

_	<u> </u>	
Pass/Fail	Pass	Pass
Actual Result Distance (meter)	478.7309966661931	155044.92200234122 155044.92200234122
Expected Result Distance (meter)	478.7309966661931	155044.92200234122
Description	Test get distance between two places by input latitude and longitude	Test get distance between two places by input latitude and longitude
Case	1	2

**Page:** 19 / 49

Class name for testing: HelpPlaceServiceImpl

Unit Test Case Server 17 (UTCs-17): calculate Average Rate (Integer id, double score): HelpPlace

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

**Tested by:** Sawatdiporn

		Expected Result	Actual Result	
Case	Description	New average rating score	New average rating score	Pass/Fail
		(acapa)	(acapan)	
1	Test calculates new help	3.5	3.5	Dagg
	place's average rating score.			1 433
2	Test calculates new help	3.25	3.25	Deca
	place's average rating score.			Lass

Class name for testing: AdminServiceImpl

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

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

**Tested by:** Sawatdiporn

		<b>Expected Result</b>	Actual Result	
Case	Description	Admin object ID	Admin object ID	Pass/Fail
	Test get admin by input name which has in the database	1	_	Pass
2	Test get admin by input name which does not has in the database	llun	llnu	Pass

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

Document Type: Test Record
Page: 20 / 49

Unit Test Case Server 19 (UTCs-19): saveUser(Admin admin):Admin
Test date: 10/12/2014
Tested by: Sawatdiporn

			Expected Result		Actual Result	Pass/Fail
2000	Description		Admin object		Admin object	
Case		Name	Password	Name	Password	
-	Test update admin	A design	21232f297a57a5a743894a0e4a8	V. S. S. A.	21232f297a57a5a743894a0e4a8	Pass
-	into database	Adillill	01fc3	Adimin	01fc3	

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

## 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

Case	Expected Result	Actual Result	Pass/Fail
-	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
-	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
-	System retrieves all help places from server and shows   System retrieves all help places from server and	System retrieves all help places from server and	Pass
	marker that located in the visible on device	shows marker that located in the visible on device	
	• Maharaj Nakorn Chiang Mai Hospital	<ul> <li>Maharaj Nakorn Chiang Mai Hospital</li> </ul>	
	Chiangmai Ram Hospital	• Chiangmai Ram Hospital	
	• Chiang Mai Main Police Station	<ul> <li>Chiang Mai Main Police Station</li> </ul>	

Document name: EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

**Page:** 23 / 49 Document Type: Test Record

**Page:** 24 / 49 Document Type: Test Record

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

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

**Test Date:** 9/12/2014 **Test By:** Putchakarn Jaikon

Case	Expected Result	Actual Result	Pass/Fail
1	System retrieves help places from database and shows	System retrieves help places from database and shows	Pass
	• Kriangkrai Konlakan Garage	• Kriangkrai Konlakan Garage	
	<ul> <li>Muang Chiang Mai Police Station</li> </ul>	<ul> <li>Muang Chiang Mai Police Station</li> </ul>	
	<ul> <li>Maharaj Nakorn Chiang Mai Hospital</li> </ul>	<ul> <li>Maharaj Nakorn Chiang Mai Hospital</li> </ul>	
	• Lanna Hospital	• Lanna Hospital	
	<ul> <li>Chang Phueak Police Station</li> </ul>	<ul> <li>Chang Phueak Police Station</li> </ul>	
	in the offline map	in the offline map	

**Page:** 25 / 49 Document Type: Test Record

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

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

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

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

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

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

Test By: Putchakarn Jaikon

### **Test Cases**

Case	Expected Result	Actual Result	Pass/Fail
_	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

Case	Expected Result	Actual Result	Pass/Fail
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

Document name: EIOM-Test Record-V.3.0.docx

**Release Date:** 26/12/2014

**Page:** 27 / 49

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

Test By: Putchakarn Jaikon

### Test Cases

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

Document Type: Test Record
Page: 28 / 49

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

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

Test By: Putchakarn Jaikon

### Test Cases

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

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

**Page:** 29 / 49

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

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

Document name: EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

**Page:** 30 / 49 Document Type: Test Record

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
-	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
-	System displays popup dialogue to show details of each point by providing time, distance per each point, average time and average distance.	the to show details of System displays popup dialogue to show details of distance per each point, average time and average distance.	Pass

Document name: EIOM-Test Record-V.3.0.docx

**Release Date:** 26/12/2014

**Page:** 31 / 49 Document Type: Test Record

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
_	System shows information of "SN Body Service".  Name as "SN Body Service".  Phone Number as "053-202849"  Address as "14/12 Mahidol Rd., Mueang Chiang Mai District, Chiang Mai, 50100"  Latitude as "98.985429"  Lanitude as "18 767368"  Name as "SN Body Service".  Phone Number as "053-202849"  Address as "14/12 Mahidol Rd., Mueang Chiang Mai District, Chiang Mai, 50100"  Latitude as "98.985429"  Lanitude as "18 767368"	System shows information of "SN Body Service".  Name as "SN Body Service".  Phone Number as "053-202849"  Address as "14/12 Mahidol Rd., Mueang Chiang Mai District, Chiang Mai, 50100"  Latitude as "98.985429"	Pass
	Rating score as "5.0"	Rating score as "5.0"	

**Page:** 32 / 49 Document Type: Test Record

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

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

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

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

Test By: Putchakarn Jaikon

Case	Expected Result	Actual Result	Pass/Fail
-	System refresh new average rating score as "5.0"	System refresh new average rating score as "5.0" System refresh new average rating score as "5.0" to Pass	Pass
(		Show on screen	4
7	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 Kitirot

### Test Cases

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

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

**Page:** 35 / 49

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 Kitirot

### Test Cases

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

Document Type: Test Record
Page: 36/49

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

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

Test Date: 9/12/2014
Test By: Sawatdiporn Kitirot

# Test Cases

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

**Page:** 37 / 49 Document Type: Test Record

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 Kitirot

### Test Cases

Case	Description	Expected Result	Actual Result	Pass/Fail
_	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	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	Pass

Document Type: Test Record
Page: 38 / 49

Phone Number = $053-814313$	Phone Number = 053-814313
Latitude = $18.8083976$	Latitude = 18.8083976
Longitude = $98.9764103$	Longitude = 98.9764103
Category = Police Station	Category = Police Station
Average Rate = $4.5$	Average Rate = $4.5$

System Test Case server 05 (STCs-05): The administrator can browse the help place by category.

Test Date: 9/12/2014
Test By: Sawatdiporn Kitirot

### Test Cases

Case	Description	Expected Result	Actual Result	Pass/Fail
-	Test browse help places by select "Garage"	Test browse help places by select "Garage" 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	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	Pass
		Name = Nakornping Workshop Garage Province = Chiang Mai Category = Garage	Name = Nakornping Workshop Garage Province = Chiang Mai Category = Garage	

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

Document Type: Test Record
Page: 39/49

Name= Wirut Garage Province = Chiang Mai Category = Garage	Name= Wirut Garage Province = Chiang Mai Category = Garage
Name = VN Auto Body Province = Chiang Mai Category = Garage	Name = VN Auto Body Province = Chiang Mai Category = Garage
Name = SN Body Service Province = Chiang Mai Category = Garage	Name = SN Body Service Province = Chiang Mai Category = Garage

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
	Test browse help places by select	System shows help place "Chiang System shows help place "Chiang	System shows help place "Chiang	Pass
	"Chiang Rai"	Rai Police Station"	Rai Police Station"	
		Name = Chiang Rai Police Station	Name = Chiang Rai Police Station	
		Province = Chiang Rai	Province = Chiang Rai	
		Category = Police Station	Category = Police Station	

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

Document Type: Test Record

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

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

Document Type: Test Record
Page: 41/49

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

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

Document Type: Test Record

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

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

Test By: Sawatdiporn Kitirot

### Test Cases

Description	Expected Result	Actual Result	Pass/Fail
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 Kitirot

### Test Cases

Document name: EIOM-Test Record-V.3.0.docx

Document Type: Test Record

**Release Date:** 26/12/2014

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	Descripti	Expected Result
e	uo	
1	Test get	{"Helpplaces":[{"id":1,"category":"Police Station","phoneNumber":"053-947700","address":"110 Suthep Rd,
	list of all	Mueang Chiang Mai, Chiang Mai, 50201", "name": "Maharaj Nakorn Chiang Mai
	help	Hospital", "longitude": 98.974209, "latitude": 18.789602}, {"id": 2, "category": "Hospital", "phoneNumber": "053-
	places in	999758", "address": "Chang Phuak, Mueang Chiang Mai, Chiang Mai, 50300", "name": "Lanna
	the	Hospital", "longitude": 98.991151, "latitude": 18.812723}, {"id": 3, "category": "Hospital", "phoneNumber": "054-
	database	237400", "address": "Tambon Phrabat, Amphoe Mueang Lampang, Lampang, 52000", "name": "Lampang
	in form of	Hospital", "longitude": 99.506305, "latitude": 18.285378}, {"id": 4, "category": "Police Station", "phoneNumber": "053-
	JSON.	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\u201392
		0300", "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-

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

Document Type: Test Record
Page: 44/49

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": "111111111", "
address":"Ww, ww, Chiang Mai, 11111", "name":"ww", "longitude":-
2.1073632846557757, "latitude": 34.95633002033548}]}

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	Pass
Hospital", "Iongitude": 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", "Iongitude": 99.506305, "latitude": 18.285378}, { "id": 4, "category": "Police Station", "phoneNumber": "053-	

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

Document Type: Test Record
Page: 45/49

202849", "address": "14/12 Mahidol Kd., Mueang Chiang Mai District, Chiang Mai, 50100", "name": "SN Body Service", "longitude": 98.985429, "latitude": 18.767368}, {"id": 19, "category": "Hospital", "phoneNumber": "1111111111", "address": " Ww, ww, Chiang Mai, 11111", "name": "ww", "longitude": -2.1073632846557757, "latitude": 34.95633002033548}]}
Body", "longitude": 98.987728, "latitude": 18.703818}, {"id":17, "category": "Garage", "phoneNumber": "053-
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
Garage", Tongitude": 99.072494, Tatitude": 18.84407, { Tatitude": 19.075497   Garage", Tonone Number   19.075494   19.05549617", "address": "4/1 San Sai, Chiang Mai, Chiang Mai, 50210", "name": "Wirut
491777", "address": "6 259, San Na Meng, San Sai District, Chiang Mai, 50210", "name": "Nakomping Workshop
Station", "longitude": 98.8986879, "latitude": 18.8061444}, {"id": 14, "category": "Garage", "phoneNumber": "053-
Station", "phoneNumber": "053-211750", "address": "194 Moo 1, Huai Kaew Rd., Chang Phuak, Chiang Mai,
50200", "name". "Mae Ping Police Station", "longitude": 99.009687, "latitude": 18.751725}, {"id":13, "category": "Police
50200", "name": "Chiang Mai Main Police Station", "longitude":98.9764103, "latitude":18.8083976}, {"id":12, "category": "Police Station" "shows Name of Managery ("id":12, "category") "shows Name of Managery ("id":12, "ca
Station", "phoneNumber": "053-814313", "address": "169 Ratchadamnoen Rd., Mueang Chiang Mai District, Chiang Mai,
50200", "name": "Chang Phuak Police Station", "longitude": 98.97552, "latitude": 18.818797}, {"id": 11, "category": "Police
Highway Police Station", "longitude":99.002148, "latitude":18.7893955}, {"id":10, "category": "Police Station", "longitude":99.002148, "latitude":18.7893955}, {"id":10, "category": "Police Station", "longitude": "latitude": 120/2 Chotone Dd Miseone Chione Mei Dietrict Chione Mei
242441", "address": "Inburi-Chaingmai Rd., Muang Chiang Mai District, Chiang Mai, 50000", "name": "Chiang Mai Provincial
272788", "address": "158 Pardat, Mueang Chiang Mai District, Chiang Mai, 50100", "name": "Chiangmai Klaimor   Hospital" "Iongitude": 98 972035. "latitude": 18 7604263. {"id": 9 "category": "Highway Police Station" "phoneNumber": "053-
Hospital", "longitude": 98.977693, "latitude": 18.794931}, {"id": 8, "category": "Hospital", "phoneNumber": "053-
ress": "8 Boonreungrit Rd., Mueang Chiang Mai District, Chiang Mai, 50200", "name": "Chiangmai Ram
17   Changpuek, Mueang Chiang Mai District, Chiang Mai, 50200", "name": "Changpuek   Hospital", "longitude": 98.986944, "latitude": 18.798967  { "id": 7, "category": "Hospital", "phoneNumber": "053\u2013920300", "add
Garage", "longitude": 99.055108, "latitude": 18.750651}, {"id": 6, "category": "Hospital", "phoneNumber": "053-220022", "address": "
242999", "address": "Outer Ring Road, Saraphi District, Chiang Mai, 50000", "name": "Ruangchai Yon
Station", "longitude": 99.832526, "latitude": 19.912221}, {"id": 5, "category": "Garage", "phoneNumber": "053-
603100","address":"Rattanakeat Road, Mueang Chiang Rai, Chiang Rai, 57000","name":"Chiang Rai Police

Document Type: Test Record
Page: 46/49

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	{"NearestHelpPlace":[{"id":1,"averageRate":5,"category":"Hospital","phoneNumber":"053-
	location (18.789643, 98.969758) and	947700", "address": "110 Suthep Rd, Mueang Chiang Mai, Chiang Mai,
	select "Hospital" category, in JSON	50200", "name": "Maharaj Nakorn Chiang Mai
	form.	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

**Page:** 47 / 49

Document Type: Test Record

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	{"HelpplacesInScope":[{"id":1,"averageRate":5,"category":"Hospital","phoneNumber":"053-
	locate in scope of 1000 meters	947700", "address": "110 Suthep Rd, Mueang Chiang Mai, Chiang Mai,
	around the location (18.789643,	50200", "name": "Maharaj Nakorn Chiang Mai
	98.969758), in JSON form.	Hospital", "longitude": 98.974209, "latitude": 18.789602}]}

Pass/Fail	Pass
Actual Result	{"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}]}

**Document name:** EIOM-Test Record-V.3.0.docx **Release Date:** 26/12/2014

Document Type: Test Record
Page: 48/49

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
_	Test get help place of ID= 1 and give rating score = 2	Test get help place of ID= 1 and give {"HelpplaceNewAverageRate":[{"id":1,"averageRate":3.5,"category":"Hospital","phoneNumb ating score = 2 er":"053-947700", "address":"110 Suthep Rd, Mueang Chiang Mai, 50200", "name":"Maharaj Nakorn Chiang Mai Hospital", "longitude":98.974209, "latitude":18.789602}]}

**Ref. Mueang Chiang Mai, Chiang Mai, 50200", "address": "Maharaj
Nakorn Chiang Mai Hospital", "longitude": 98.974209, "latitude": 18.789602}]}

Document Type: Test Record