AR Map 2Go!

Test Record

By

Mr. Parun Pichaiwong   522115043

Department of Software Engineering

College of Arts, Media and Technology

Chiang Mai University

Project advisor

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Mr. Jayakrit Hirisajja

Document Name	Version	Status	Date	Viewable	Reviewer	Responsible
Documents						
AR Map 2GO!_Test_Plan_ 1.0	AR Map 2GO!_Test_Record • Add new System Test • Add new Unit Testing	Reviewe d	16-07-2016	PP, JH	PP	PP
AR Map 2GO!_Test_Plan_ 1.0a	AR Map 2GO!_Test_Record • Update System Test • Update Unit Testing	Reviewe d	25-07-2016	PP, JH	PP	PP
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*PP = Parun Pichaiwong

*JH = Jayakrit Hirisajja

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Chapter One | Introduction

A Software Test Plan is a document describing the testing scope and activities. It is the basis for formally testing any software/product in a project.

1.1 Purpose

The purpose of Test Record describes record test of unit testing and system test of AR Map 2Go! mobile application. In this document include test case, unit testing system testing and test data. AR Map 2Go! test record consists the description of each function in the system. The Test Record Document was using for software tester to record all the result of the function for identifies the defects and the limitation of the software. From the result of each function can help developer to fix the defects and reducing the cost while the long term of maintenance.

1.2 Software Scope

The scope of test record document is testing event or activity and record the result with input and output of AR Map 2Go! application which consist of each function in the system for assessment and measurement the quality of user requirement and system requirement.

1.3 Objective

The objectives of this document to ensure the software quality that the system delivered.

- Exceed user requirements.

- Reduce the rejecting project

- Test the functional of system which includes Software Requirement Specification and Software Design Document.

- The Functional systems are correctness.

- Assessment and measurement the quality of user requirement and system requirement

1.4 Definition, Acronyms and Abbreviation

1.4.1 Key Definition Key Definition

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

System Test Testing conducted on a complete, integrated system to evaluate the system's compliance with its specified requirement. System testing falls within the scope of black box testing, and as such, should require no knowledge of the inner design of the code or logic.

Unit Testing Testing method by which individual units of source code, sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures, are tested to determine if they are fit for use.

1.4.2 Abbreviation

KEY	ABBREVIATIONS
TC-SXX	System Test Case number
TC-UXX	Unit Testing Case number

1.5 Dependency Document

This software Test Record is depended on the following documents

- Software Project Management plan 1.1

- Software Requirement Specification version 1.1

- Software Design document version 1.1

- Traceability Record version 1.0

- Test Plan version 1.0

Chapter Two | System Test Record

3.1 TC-S01: The user can register a new account

Test ID	TC-S01
Test Case	The user can register a new account.
Test Description	Test for displaying the message "Registration Successfully".
Actor	User
Procedures	1. Click on "Sign Up" button in the main page. 2. Input username (E-mail address), password and confirm password. 3. Clicks create account button.
Prerequisites Data	Users must run the application before.
Input	1. Username (E-mail address) 2. Password. 3. Confirm password.
Expected Output	The system displays dialog to show the message "Registration Successfully".
Responsibility	Parun Pichaiwong
Test Completion Date	17 July 2016

Test Record: TR-S01: **Test Date:** 15 June 2014

Test case No.	Username	Password	Confirm Password	Expected Output	Actual Output	P/F
1	Parun@hotmail.com	1	1	Go to main page	Go to main page	P
2	admin@hotmail.com	1234	1234	Go to main page	Go to main page	P

3	a@email.com	parun	aaa	Require input matched password and confirm password	Require input matched password and confirm password	P
4	5	parun	parun	Require input Email type	Require input Email type	P
5	5	parun	5	Require input Email type with password and confirm password	Require input Email type with password and confirm password	P
6	NULL	parun	parun	Require input username	Require input username	P
7	Parun@email.com	NULL	parun	Require input password	Require input password	P
8	Parun@email.com	parun	NULL	Require input confirm password	Require input confirm password	P
9	NULL	NULL	NULL	Require input Email type with password and confirm password	Require input Email type with password and confirm password	P

3.2 TC-S02: The user can delete an account

Test ID	TC-S02
Test Case	The user can delete an account.
Test Description	Test for displaying message "Delete Account Successfully".
Actor	User
Procedures	1. Click on the mini gear icon on the right top of edit profile page. 2. Select "Delete Account" button. 3. Clicks "Yes" to confirm.
Prerequisites Data	Users must be login before.
Input	-
Expected Output	The system displays dialog to show the message "Delete Account Successfully".
Responsibility	Parun Pichaiwong
Test Completion Date	17 July 2016

Test Record: TR-S02

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test to delete account	1. Click on the "Delete Account" button at edit profile page. 2. Clicks "Yes" to confirm.	Go to main page	Go to main page	P

3.3 TC-S03: The user can login to the system

Test ID	TC-S03
Test Case	The user can login to the system.
Test Description	Test for displaying the home page.
Actor	User
Procedures	1. Click on "Sign In" button in the main page. 2. Input username(E-mail type) and password. 3. Clicks "Sign In" button.
Prerequisites Data	Users must be login before.
Input	1. Username(E-mail address). 2. Password.
Expected Output	The system displays dialog to show the message "Login Successfully" and go to home page.
Responsibility	Parun Pichaiwong
Test Completion Date	17 July 2016

Test Record: TR-S03

Test case No.	Username	Password	Expected Output	Actual Output	P/F
1	Parun@hotmail.com	1	Go to home page	Go to home page	P
2	Parun@email.com	1234	Require input again	Require input again	P
3	a@email.com	parun	Require input again	Require input again	P
4	5	parun	Require input again	Require input again	P
5	5	5	Require input again	Require input again	P
6	NULL	parun	Require input again	Require input again	P

7	Parun@email.com	NULL	Require input again	Require input again	P
8	NULL	NULL	Require input again	Require input again	P

3.4 TC-S04: The user can log out from the system

Test ID	TC-S04
Test Case	The user can log out from the system.
Test Description	Test for displaying the main page.
Actor	User
Procedures	1. Click on the mini gear icon on the right top of edit profile page. 2. Select "Logout" button. 3. Clicks "Yes" to confirm.
Prerequisites Data	Users must be login before.
Input	-
Expected Output	The system displays dialog to show the message "Logout Successfully" and go to main page.
Responsibility	Parun Pichaiwong
Test Completion Date	17 July 2016

Test Record: TR-S04

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test to logout	1. Click on the mini gear icon on the right bottom conner of tool bar. 2. Select "Logout" button. 3. Clicks "Yes" to confirm.	Go to main page and update online status	Go to main page and update online status	P
2	Test to cancel logout	1. Click on the mini gear icon on the right bottom conner of tool bar. 2. Select "Logout" button. 3. Clicks "No" to cancel.	Stay in the application	Stay in the application	P

3.5 TC-S05: The user can recover the password

Test ID	TC-S05
Test Case	The user can recover the password.
Test Description	Test for displaying the recover password page.
Actor	User
Procedures	1. Click on "Sign In" button in the main page. 2. Click on "Forgot Password". 3. Enters username (E-mail address). 4. Clicks "Submit" button. 5. Go to user mail box and open E-mail link which send from the system. 6. Clicks link on E-mail.
Prerequisites Data	Users must run the application before.
Input	1. Username(E-mail address).
Expected Output	The system will display the recover password page to the user.
Responsibility	Parun Pichaiwong
Test Completion Date	19 July 2016

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Test Record: TR-S05

Test case No.	Description	Action	Input	Expected Output	Actual Output	P/F
1	Test to recovery password	1. Click on "Sign In" button in the main page. 2. Click on "Forgot Password". 3. Enters username(E-mail address). 4. Clicks "Submit" button. 5. Go to user mail box and open E-mail link which send from the system. 6. Clicks link on E-mail.	Email = "Parun@hotmail.com"	Receive Email from system with recovery password	Receive Email from system with recovery password	P
2	Test to cancel recovery password	1. Click on "Sign In" button in the main page. 2. Click on "Forgot Password". 3. Enters username(E-mail address). 4. Clicks back button to cancel.	Email = "Parun@hotmail.com"	Go to main page	Go to main page	P
3	Test to input wrong email account to recovery password	1. Click on "Sign In" button in the main page. 2. Click on "Forgot Password". 3. Enters wrong username(E-mail address). 4. Clicks back button to cancel.	Email = "P1234@hotmail.com"	System shows message "Email is not correct"	System shows message "Email is not correct"	P
4	Test to input empty space	1. Click on "Sign In" button in the main page. 2. Click on "Forgot Password". 3. Enters empty space. 4. Clicks "Submit" button.	Email = " "	System shows message "Please enter an Email Address"	System shows message "Please enter an Email Address"	P

3.6 TC-S06: The user can view user profile information

Test ID	TC-S06
Test Case	The user can view user profile information.
Test Description	Test for displaying the view profile page.
Actor	User
Procedures	1. Click on the mini gear icon on the right top of edit profile page. 2. Select "View Profile" button.
Prerequisites Data	Users must be login before.
Input	-
Expected Output	The system will display the view profile page.
Responsibility	Parun Pichaiwong
Test Completion Date	19 July 2016

Test Record: TR-S06

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test to view user profile	1. Click on the mini gear icon on the right top of edit profile page. 2. Select "View Profile" button.	Go to view user profile page	Go to view user profile page	P

2	Test to cancel view user profile	1. Click on the mini gear icon on the right top of edit profile page. 2. Click on back button on mobile to back to previous activity	Back to previous activity	Back to previous activity	P

3.7 TC-S07: The user can update profile information

Test ID	TC-S07
Test Case	The user can update profile information.
Test Description	Test for updating the user profile.
Actor	User
Procedures	1. Click on "Edit Profile" in profile page. 2. Input name, address, Facebook and mobile phone. 3. Clicks "Update Profile" button.
Prerequisites Data	Users must be login before.
Input	1. Name. 2. Address. 3. Facebook. 4. Mobile phone.
Expected Output	The system displays dialog to show the message "Update Profile Successfully" and return to profile page.
Responsibility	Parun Pichaiwong
Test Completion Date	19 July 2016

Test Record: TR-S07

Test case No.	Input	Expected Output	Actual Output	P/F
1	Username = "Parun Pichaiwong" Address = "Lampang" Facebook = "p.pichaiwong@facebook.com" Mobile = "084-444-4444"	Username = "Parun Pichaiwong" Address = "Lampang" Facebook = "p.pichaiwong@facebook.com" Mobile = "084-444-4444"	Username = "Parun Pichaiwong" Address = "Lampang" Facebook = "p.pichaiwong@facebook.com" Mobile = "084-444-4444"	P
2	Username = "Parun Pichaiwong" Address = " " Facebook = "p.pichaiwong@facebook.com" Mobile = "084-444-4444"	Username = "Parun Pichaiwong" Address = " " Facebook = "p.pichaiwong@facebook.com" Mobile = "084-444-4444"	Username = "Parun Pichaiwong" Address = " " Facebook = "p.pichaiwong@facebook.com" Mobile = "084-444-4444"	P
3	Username = "Parun Pichaiwong" Address = "Lampang" Facebook = " " Mobile = "084-444-4444"	Username = "Parun Pichaiwong" Address = "Lampang" Facebook = " " Mobile = "084-444-4444"	Username = "Parun Pichaiwong" Address = "Lampang" Facebook = " " Mobile = "084-444-4444"	P

4	Username = "Parun Pichaiwong" Address = "Lampang" Facebook = "p.pichaiwong@facebook.com" Mobile = " "	Username = "Parun Pichaiwong" Address = "Lampang" Facebook = "p.pichaiwong@facebook.com" Mobile = " "	Username = "Parun Pichaiwong" Address = "Lampang" Facebook = "p.pichaiwong@facebook.com" Mobile = " "	P
5	Username = " " Address = " " Facebook = " " Mobile = " "	Username = " " Address = " " Facebook = " " Mobile = " "	Username = " " Address = " " Facebook = " " Mobile = " "	P
6	Username = " Parun" Address = " " Facebook = " " Mobile = " "	Username = " Parun" Address = " " Facebook = " " Mobile = " "	Username = " Parun" Address = " " Facebook = " " Mobile = " "	P

7	Username = " Parun" Address = " " Facebook = " " Mobile = "02-222-2222 "	Username = " Parun" Address = " " Facebook = " " Mobile = "02-222-2222 "	Username = " Parun" Address = " " Facebook = " " Mobile = "02-222-2222 "	P
8	Username = " " Address = " USA " Facebook = " " Mobile = " "	Username = " " Address = " USA " Facebook = " " Mobile = " "	Username = " " Address = " USA " Facebook = " " Mobile = " "	P

3.8 TC-S08: The user can change profile picture

Test ID	TC-S08
Test Case	The user can change profile picture.
Test Description	Test for displaying a new profile picture.
Actor	User
Procedures	1. Click on profile picture in the left top of profile page. 2. Select the photo gallery. 3. Select the photo. 4. Clicks photo again to save the change.
Prerequisites Data	Users must be login before.
Input	-
Expected Output	The system displays a new profile picture to user in profile page.
Responsibility	Parun Pichaiwong
Test Completion Date	22 July 2016

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test to change profile picture	1. Click on profile picture in the left top of profile page. 2. Select the photo gallery. 3. Select the photo. 4. Clicks photo again to save the change.	Profile picture has change	Profile picture has change	P

2	Test to cancel view user profile	1. Click on profile picture in the left top of profile page. 2. Select the photo gallery. 3. Select the photo. 4. Clicks back button to cancel.	Return to Profile Activity page	Return to Profile Activity page	P

3.9 TC-S09: The user can view the specified map list from the server

Test ID	TC-S09
Test Case	The user can view the specified location map list from the server database via the application.
Test Description	Test for displaying the home page with the location map list row and details.
Actor	User
Procedures	1. Login into the system. 2. System will navigate to home page. 3. Clicks on tab "Available map".
Prerequisites Data	Users must be login before.
Input	1. -
Expected Output	The system displays the list of all available location map list row to the user at the home page.
Responsibility	Parun Pichaiwong
Test Completion Date	25 July 2016

Test Record: TR-S09

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test to view all of specified location map list row from the server database	- After login, Click on tab "Available Map" button in the Home page. - System will show all of map list view from the server to the user.	The system displays all of map list view from the server to the user.	The system displays all of map list view from the server to the user.	P

3.10 TC-S10: The user can view the specified location text title list from the server

Test ID	TC-S10
Test Case	The user can view the specified location text title list from the server database via the application.
Test Description	Test for displaying the home page with text title list row and details.
Actor	User
Procedures	1. Login into the system. 2. System will navigate to home page. 3. Clicks on tab "Text & Magazine".
Prerequisites Data	Users must be login before.
Input	1. -
Expected Output	The system displays the list of all available text title to the user at the home page.
Responsibility	Parun Pichaiwong
Test Completion Date	27 July 2016

Test Record: TR-S10

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test to view the all of specified location map list row from the server database	- After login, Click on tab "Text & Magazine" button in the Home page. - System will show all of specified location text title list view from the server to the user.	The system displays all of specified location text title list view from the server to the user.	The system displays all of specified location text title list view from the server to the user.	P

3.11 TC-S11: The user can select the specified map to see more detail

Test ID	TC-S11
Test Case	The user can select one map from the location map list row to see more detail.
Test Description	Test for displaying the selected map detail page.
Actor	User
Procedures	1. Login into the system. 2. System will navigate to home page. 3. Clicks on tab "Available Map". 4. Clicks on the target.
Prerequisites Data	Users must be login before.
Input	-
Expected Output	The system displays the map detail page to show more detail about the selected map with contains location name, specified map picture, scanning condition and help.
Responsibility	Parun Pichaiwong
Test Completion Date	30 July 2016

Test Record: TR-S011

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test to display the location map detail page by clicks on one of specified map from the row.	1. Select one of specified map from the row at Home page.	The system displays the location map detail page contains location name, specified map picture, scanning condition and help.	The system displays the location map detail page contains location name, specified map picture, scanning condition and help.	P

3.12 TC-S12: The user can select the specified text title from the list to see more detail

Test ID	TC-S12
Test Case	The user can select one of text title from the list row to see more detail.
Test Description	Test for displaying the selected text title detail page.
Actor	User
Procedures	1. Login into the system. 2. System will navigate to home page. 3. Clicks on tab "Text & Magazine". 4. Clicks on the target.
Prerequisites Data	Users must be login before.
Input	-
Expected Output	The system displays the map detail page to show more detail about the selected map with contains text of the location name, specified magazine or specified book that use for, scanning condition and help.
Responsibility	Parun Pichaiwong
Test Completion Date	30 July 2016

Test Record: TR-S012

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test to display the selected text title detail page by clicks on one of specified map from the row.	• Select one of specified text title from the row at Home page.	The system displays the text title detail page contains text of the location name, specified magazine or specified book that use for, scanning condition and help.	The system displays the text title detail page contains text of the location name, specified magazine or specified book that use for, scanning condition and help.	P

3.13 TC-S13: The user can view the 3-dimension object via mobile camera view

Test ID	TC-S13
Test Case	The user can view 3-dimension object via mobile camera view.
Test Description	Test for showing the target's 3-dimension object via camera view.
Actor	User
Procedures	1. The user scans the target (map shape picture or text title) via the application.
Prerequisites Data	The user must be login before.
Input	-
Expected Output	If verification success, the system will show interactive 3D object to the user via mobile camera view.
Responsibility	Parun Pichaiwong
Test Completion Date	04 August 2016

Test Record: TR-S013

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test for displaying 3-dimension object to the user via mobile camera view	1. **The user goes to target location**. 2. **Clicks "Camera" button on UI**. 3. Scan the mobile camera to focus on the target point that describe on the quest clue.	The system displays displaying 3-dimension object to the user via mobile camera view to the user.	The system displays displaying 3-dimension object to the user via mobile camera view to the user.	P
2	Test for displaying 3-dimension object to the user via mobile camera view	1. **The user goes to another target location**. 2. **Clicks "Camera" button on UI**. 3. Scan the mobile camera to focus on the target point that describe on the quest clue.	The system displays displaying 3-dimension object to the user via mobile camera view to the user.	The system does not show any result to the user via camera view.	F

3.14 TC-S14: Administrator can login into the web application on the server.

Test ID	TC-S14
Test Case	Administrator can login into the web application on the server.
Test Description	Test for displaying the home page.
Actor	Administrator.
Procedures	1. Click on "Sign In" button in the main page. 2. Input username (E-mail type) and password. 3. Clicks "Sign In" button.
Prerequisites Data	Administrator must go to the localhost/AR Map 2go/home.html first.
Input	1. Username (E-mail address). 2. Password.
Expected Output	The system displays dialog to show the message "Login Successfully" and go to home page.
Responsibility	Parun Pichaiwong
Test Completion Date	22 July 2016

Test Record: TR-S014

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test to select on location to start routing	1. Click on "Sign In" button in the main page. 2. Input username (E-mail type) and password. Clicks "Sign In" button. 3. Clicks "Login" button.	The system displays dialog to show the message "Login Successfully" and go to home page.	The system displays dialog to show the message "Login Successfully" and go to home page.	P

3.15 TC-S15: Administrator can add the new location information into the system.

Test ID	TC-S15
Test Case	Administrator can add the new quest package into the system.
Test Description	Test for displaying message "Insert complete" after adding the new location information on web service.
Actor	Administrator
Procedures	1. Go to URL localhost/AR Map 2Go/admin/addNewLocation.php. 2. Input the require information; l_name l_image l_description l_total_place l_status l_map_id 3. Clicks "Submit" button
Prerequisites Data	Administrator must be login before.
Input	1. l_server_id 2. l_name 3. l_image 4. l_description 5. l_total_place 6. l_status
Expected Output	The system displays message add the new location complete and insert data into locationDatabase.
Responsibility	Parun Pichaiwong
Test Completion Date	23 July 2016

Test Record: TR-S015

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test for displaying message "Insert complete" after adding the new location information.	1. Go to URL localhost/AR Map 2Go/admin/addNewLocation.php. 2. Input the require information; l_name = Chiang Mai l_image = chiang mai.jpg l_description = Chiang Mai province l_total_place = 1 l_status = 1 3. Clicks "Submit" button	The system displays message "Insert complete".	The system displays message "Insert complete".	P

3.16 TC-S16: Administrator can log out from the system

Test ID	TC-S16
Test Case	Administrator can log out from the system.
Test Description	Test for displaying the main page.
Actor	Administrator
Procedures	1. Go to Administrator Home page. 2. Select "Logout" button. 3. Clicks "Yes" to confirm.
Prerequisites Data	Administrator must be login before.
Input	-
Expected Output	The system displays dialog to show the message "Logout Successfully" and go to main page.
Responsibility	Parun Pichaiwong
Test Completion Date	24 July 2016

Test Record: TR-S16

Test case No.	Description	Action	Expected Output	Actual Output	P/F
1	Test to select on location to start routing	1. Go to Administrator Home page. 2. Select "Logout" button. 3. Clicks "Yes" to confirm.	The system displays dialog to show the message "Logout Successfully" and go to main page.	The system displays dialog to show the message "Logout Successfully" and go to main page..	P

Chapter Four |Unit Test

Server side

4.1 UTC-01:

Method: private boolean checkEmail(String email) {}

Test ID	UTC-01
Test Case	User input the Username as Email Address format.
Test Description	The for check the user input the Email format.
Actor	User
Procedures	5. Input Username by using Email address
Prerequisites Data	Users must run application before.
Input	-
Expected Output	The system not displays system message "Please input Email type"
Responsibility	Parun Pichaiwong
Test Completion Date	27 July 2016

Test Record: UTR-01

Test case No.	Input	Expected Output	Actual Output	P/F
1	"Parun@hotmail.com"	1	1	P
2	"Parun"	0	0	P

3	"Parun.com"	0	0	P
4	"4"	0	0	P

4.2 UTC-02:

functionData.php: checkLogin();

Test ID	UTC-02
Test Case	The user can check-in via this application.
Test Description	Test for displaying the quest location page.
Actor	User
Procedures	1. Select one location from the all locations in the map page. 2. Click on the selected location. 3. Clicks "Play" button. 4. Clicks "Check In" button in quest location page.
Prerequisites Data	Users must be login before.
Input	-
Expected Output	The system displays the quest location page and shows check-in status message.
Responsibility	Parun Pichaiwong
Test Completion Date	29 July 2016

Test Record: UTR-02

Test case No.	Input	Expected Output	Actual Output	P/F
1	Username = "parun@hotmail.com" Password = "1"	User can login into the system	User can login into the system	P
2	Username = "admin@hotmail.com" Password = "1234"	User can login into the system	User can login into the system	P
3	Username = "xxxx@hotmail.com" Password = "1234"	The system will show the error message is "Invalid Username or Password"	The system will show the error message is "Invalid Username or Password"	P
4	Username = "" Password = ""	The system will show the error message is "Please Input username and password"	The system will show the error message is "Please Input username and password"	P

4.3 UTC-03:

functionData.php: deleteAccount();

Test ID	UTC-03
Test Case	The user can check-in via this application.
Test Description	Test for displaying the quest location page.
Actor	User
Procedures	1. Select one location from the all locations in the map page. 2. Click on the selected location. 3. Clicks "Play" button. 4. Clicks "Check In" button in quest location page.
Prerequisites Data	Users must be login before.
Input	-
Expected Output	The system displays the quest location page and shows check-in status message.
Responsibility	Parun Pichaiwong
Test Completion Date	31 July 2016

Test Record: UTR-03

Test case No.	Input	Expected Output	Actual Output	P/F
1	Remove an account of the username's "a@hotmail.com" by clicks "Delete Account" button	The account of the username's "a@hotmail.com" is remove from the server database	The account of the username's "a@hotmail.com" will is from the server database	P

2	Remove an account of the username's "b@hotmail.com" by clicks "Delete Account" button	The account of the username's "b@hotmail.com" is remove from the server database	The account of the username's "Parunn123" is remove from the server database	P	
3	Remove an account of the username's "c@c.com" by clicks "Delete Account" button	The account of the username's "c@c.com" is remove from the server database	The account of the username's "c@c.com" is remove from the server database	P	

Appendix A

Server database:

Table: member

MemberID	Email	Password	OnlineStatus
1	parun@hotmail.com	1	1
2	admin@hotmail.com	1234	1
3	explorer_online@hotmail.com	1234	1
4	a@hotmail.com	a	1
5	b@hotmail.com	b	1
6	c@c.com	c	1
7	h@h.com	h	1
8	x@x.com	x	1
9	z@hotmail.com	z	1
10	a1@hotmail.com	1	1
11	xxx@f.com	2	1

Appendix B

Application database:

Table: user_database

	user_id	user_email	user_name	address	mobile	facebook	image
1	1	1	Parun	Lampang	022222222	P.Pichaiwong	2180837555

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Appendix C

Server database:

Table: locations

	_id	location_id	location_name	latitude	longtitude	status
1	1	QL_01	CAMT Building	18.8004735	98.950677	1
2	2	QL_02	Chiangmai Zoo	18.8104212	98.9477591	0
3	3	QL_02	Pratu Tha Phae	18.78769	98.9934549	0
4	4	QL_02	Khruba Siwicha	18.812671	98.9460487	0
5	5	QL_02	Anusawaree Sar	18.790211	98.9873815	0
6	6	QL_03	Wat Phrathat Dc	18.804621	98.9217045	0
7	7	QL_03	Khruba Siwicha	18.812671	98.9460487	0
8	8	QL_04	CAMT Building	18.8004735	98.950677	1
9	9	QL_04	Pratu Tha Phae	18.78769	98.9934549	0
10	10	QL_04	Anusawaree Sar	18.790211	98.9873815	0

Appendix D

Application database:

Table: regis_locations

_id	location_r_id	location_r_name
1	QL_01	CAMT Building