

AR Map 2Go!

Test Plan

By

Mr. Parun Pichaiwong 522115043

Department of Software Engineering
College of Arts, Media and Technology
Chiang Mai University

Project advisor

Mr. Jayakrit Hirisajja

Document History

Document Name	Version	Status	Date	Viewable	Reviewer	Responsible
Documents						
AR Map 2GO!_Test_Plan_1.0	AR Map 2GO!_Test_Plan_1.0 <ul style="list-style-type: none"> Add new System Test Add new Unit Testing 	Reviewed	07-08-2016	PP, JH	PP	PP

***PP = Parun Pichaiwong**

***JH = Jayakrit Hirisajja**

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	2 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

Table of Contents

1.1 Purpose	4
1.2 Software Scope	4
1.3 Objective	4
1.4 Dependency Document	4
2.1 Acronym	5
2.2 Definition Acceptance	5
2.3 Defect	5
2.4 Error	5
2.5 Failure	5
2.6 Module	5
2.7 Integration Test	6
2.8 System Test	6
2.9 Unit Test	6
3.0 System Test Plan	7
Appendix	18

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	3 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

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

Test Plan document is established to test and find the software error that it occurs during development process to guarantee the quality of the software before delivery. In addition, the test plan is a handbook for test performance it helps to test each function, each unit of the system with the appropriate methodology to get the most quality. According to, after it got the most quality the system will be the most efficiency and acceptance from the customer.

1.2 Software Scope

The test plan document describes the testing activity of each function for the “AR Map 2 Go!” to find the error or failure of the system. Also the test plan is made to measure the user requirements and system requirement that it consistency and reliability. Moreover, test plan explains the test types and test methodology of the system as well.

1.3 Objective

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

- All functions are consistency and reliability.
- Defining bug-tracking procedure.
- Identify testing task.
- Testing does not effect to another system and not exit the technology environment.

1.4 Dependency Document

This software Test Plan is depended on the following documents

- Software Requirement Specification version1.1
- Software Design document version1.1

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	4 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

Chapter Two | Acronym & Definition

2.1 Acronym

DFD	Data Flow Diagram
IEEE	Institute of Electrical and Electronics Engineers
CS	Counter Service
SEI	Software Engineering Institute
EPG	Engineering Process Group
SMM	Software Measurement and Metrics
SQA	Software Quality Assurance

2.2 Definition Acceptance

Agreements: Granting of an unqualified consent (whether express or implied) to the terms of a contract by the involved parties. When an offer is received, it is either accepted or countered (with a counter offer). A counter offer obligates the other party to accept it or respond with its own counter offer. Accepting an offer (or a counter offer) creates a binding contract. Sometimes, the term 'subject to contract' is used in offers or acceptances to indicate that the parties intend to be bound only under a formal contract when it is prepared and signed (executed).

2.3 Defect

The lack of something necessary or desirable for completion or perfection.

2.4 Error

A deviation from accuracy or correctness.

2.5 Failure

A failure is the act of falling short of the goal or a person who hasn't achieved what they set out to

2.6 Module

A separate unit of software or hardware. Typical characteristics of modular components include portability, which allows them to be used in a variety of systems, and interoperability, which allows them to function with the components of other systems.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	5 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

2.7 Integration Test

A logical extension of unit testing. In its simplest form, two units that have already been tested are combined into a component and the interface between them is tested. A component, in this sense, refers to an integrated aggregate of more than one unit. In a realistic scenario, many units are combined into components, which are in turn aggregated into even larger parts of the program. The idea is to test combinations of pieces and eventually expand the process to test your modules with those of other groups. Eventually all the modules making up a process are tested together. Beyond that, if the program is composed of more than one process, they should be tested in pairs rather than all at once.

2.8 System Test

The process of performing a variety of tests on a system to explore functionality or to identify problems. System testing is usually required before and after a system is put in place. A series of systematic procedures are referred to while testing is being performed. These procedures tell the tester how the system should perform and where common mistakes may be found. Testers usually try to "break the system" by entering data that may cause the system to malfunction or return incorrect information. For example, a tester may put in a city in a search engine designed to only accept states, to see how the system will respond to the incorrect input.

2.9 Unit Test

A test verifying the functionality of a small portion of code. The primary mode of testing code with Test-Driven Development[[/link](#)] and Behavior-Driven Development. Every aspect of application code should be tested by at least one unit test.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	6 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

Chapter Three | System Test Plan

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	<ol style="list-style-type: none">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	<ol style="list-style-type: none">1. Username(E-mail address)2. Password.3. Confirm password.
Expected Output	The system displays dialog to show the message “Registration Successfully”.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	7 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

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	<ol style="list-style-type: none">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”.

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	<ol style="list-style-type: none">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	<ol style="list-style-type: none">1. Username(E-mail address).2. Password.
Expected Output	The system displays dialog to show the message “Login Successfully” and go to home page.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	8 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

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	<ol style="list-style-type: none">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.

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	<ol style="list-style-type: none">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	<ol style="list-style-type: none">1. Username(E-mail address).
Expected Output	The system will display the recover password page to the user.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	9 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

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	<ol style="list-style-type: none">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.

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	<ol style="list-style-type: none">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	<ol style="list-style-type: none">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.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	10 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

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	<ol style="list-style-type: none"> 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.

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	<ol style="list-style-type: none"> 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.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	11 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

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	<ol style="list-style-type: none"> 1. Login into the system. 2. System will navigate to home page. 4. 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.

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	<ol style="list-style-type: none"> 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.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	12 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

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	<ol style="list-style-type: none"> 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.

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	<ol style="list-style-type: none"> 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.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	13 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Username(E-mail address). 2. Password.
Expected Output	The system displays dialog to show the message “Login Successfully” and go to home page.

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	<ol style="list-style-type: none"> 1. Go to URL localhost/AR Map 2Go/admin/addNewLocation.php. 2. Input the require information; <ul style="list-style-type: none"> l_name l_image l_description l_total_place l_status l_map_id 3. Clicks “Submit” button 4.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	14 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

Prerequisites Data	Administrator must be login before.
Input	<ol style="list-style-type: none"> 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.

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	<ol style="list-style-type: none"> 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.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	15 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

Chapter Four IUnit 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”

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	<ol style="list-style-type: none">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.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	16 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

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	<ol style="list-style-type: none">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.

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	17 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

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

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	18 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016

Appendix C

Server database:

Table: locations

	_id	location_id	location_name	latitude	longitude	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 De	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

Document Name	AR Map 2Go!_Test_Plan_1.0.docx	Owner	PP	Page	19 / 19
Document Type	Test Plan	Release Date	08 August 2016	Print Date	10 August 2016