# SMART PRESCRIPTION APPLICATION

Test Plan

## By

Mr. Natthakan Kaeokanpai 552115020 Mr. Phithiwat Sitthitun 552115051

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

**Project Advisor** 

Dr.Prompong Sugunnasil

**Document History** 

Boedment Instory							
Document Name	Version	Status	Date	Viewable	Editable	Responsible	
Documents							
Smart Prescription Application _Test Plan	Software Test Plan_V1.0	Reviewed	June 10th 2016	NAT,PHI, PROM	NAT,PHI	NAT,PHI	
Smart Prescription Application _Test Plan	Software Test Plan_V1.1	Released	July 10th 2016	NAT,PHI, PROM	NAT,PHI	NAT,PHI	
Smart Prescription Application _Test Plan	Software Test Plan_V2.0	Released	July 30th 2016	NAT,PHI, PROM	NAT,PHI	NAT,PHI	

Acronym

NAT = Natthakan Kaeokanpai PHI = Phithiwat Sitthitun

PROM = Prompong Sugunnasil

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	2
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

## **Table of Contents**

Chapter One   Introduction	5
1.1 Objectives	
1.2 Scope	
1.3.1 Acronyms	
1.3.1 Actorylis	
Chapter Two   Test Plan and Test Procedure	
2.1 Test Objectives	
2.1 Test Objectives 2.2 Scope of Testing	
2.2 Scope of Testing 2.3 Test Duration	
2.4 Test Responsibility	
2.4 Test Responsionity 2.5 Test Strategy	
2.5 Test Strategy 2.6 Result of Testing	
2.7 Test Environment	
2.7.1 Hardware	
2.7.2 Software	
Chapter Three   Unit Testing	
3.1 Class SiteController	
3.1.1 Unit Test Case (UTC-01): login(String username, String password) : Boolean	
3.1.2 Unit Test Case (UTC-01): logout(): Boolean	0 Q
3.2 Class UserController	
3.2.1 Unit Test Case (UTC-03): getUserList() : ArrayList	
3.2.2 Unit Test Case (UTC-03): getOserList(): ArrayList	
3.2.3 Unit Test Case (UTC-05): createUser(User user): Boolean	
3.2.4 Unit Test Case (UTC-06): updateUser(User user) : Boolean	
3.2.5 Unit Test Case (UTC-07): deleteUser(Int userId) : Boolean	
3.2.6 Unit Test Case (UTC-08): searchUser(String users): ArrayList	
3.3 Class PatientController	
3.3.1 Unit Test Case (UTC-09): getPatientList() : ArrayList	
3.3.2 Unit Test Case (UTC-10): viewPatient(Int personal_id): Mixed	
3.3.3 Unit Test Case (UTC-11): createPatient(Patient patient): Boolean	
3.3.4 Unit Test Case (UTC-12): updatePatient(Patient patient): Boolean	
3.3.5 Unit Test Case (UTC-12): deletePatient(Int personal_id): Boolean	
3.3.6 Unit Test Case (UTC-14): searchPatient(String patients): ArrayList	
3.4 Class AllergyController	
3.4.1 Unit Test Case (UTC-15): getAllergyList() : ArrayList	
3.4.2 Unit Test Case (UTC-16): viewAllergy(Int allergy_id): Mixed	
3.4.3 Unit Test Case (UTC-17): getAllergyList2(): ArrayList	
3.4.4 Unit Test Case (UTC-18)viewAllergy2(Int allergy_id): Mixed	
3.4.5 Unit Test Case (UTC-19): createAllergy(Allergy allergy): Boolean	
3.4.6 Unit Test Case (UTC-20): updateAllergy(Allergy allergy): Boolean	
3.4.7 Unit Test Case (UTC-21): deleteAllergy(Int allergy_id): Boolean	
3.4.8 Unit Test Case (UTC-22): searchAllergy(String allergies) : ArrayList	
3.5 Class LoginEvenManager	
3.5.1 Unit Test Case (UTC-23): Login(): void	
3.6 Class PreferencesManager	
3.6.1 Unit Test Case (UTC-24): getUserInformation(): UserInformationModel	
3.7 Class QRCodeEncoder	
3.7.1 Unit Test Case (UTC-25): encode(String contents, BarcodeFormat format, int width	
height): BitMatrix	

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	3
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

Chapter Four   System Testing
System Test Case (STC-01): Doctors can view a doctor home page on the web application35
System Test Case (STC-02): Doctors can create patient's profiles on the web application
application by inputting personal id, name, surname, prescription or username37
System Test Case (STC-03): Doctors can update patient's profiles on the web application
application by inputting personal id, name, surname, prescription and username42
System Test Case (STC-04): Doctors can delete patient's profiles on the web application47
System Test Case (STC-05): Doctors can search patient's profiles on the web application by
using personal id, name or surname50
System Test Case (STC-06): Doctors can view patient's profiles on the web application54
System Test Case (STC-07): Doctors can view a list of patient's profiles on the web application.
56
System Test Case (STC-08): Administrators can view an admin home page on the web
application
System Test Case (STC-09): Administrators can add user's profiles on the web application by
inputting name, surname, username, password, confirm-password and position
System Test Case (STC-10): Administrators can update user's profiles on the web application
by inputting name, surname, username, password, confirm-password and position64
System Test Case (STC-11): Administrators can delete user's profiles on the web application. 69
System Test Case (STC-12): Administrations can search user's profiles on the web application
by using name, surname or username
System Test Case (STC-13): Administrations can view user's profiles on the web application. 76
System Test Case (STC-14): Administrations can view a list of user's profiles on the web
application
System Test Case (STC-15): Doctors, Administrations, and FDAs can login to the web
application
System Test Case (STC-16): Doctors, Administrations, and FDAs can logout from the web
application.
System Test Case (STC-17): Doctors can create allergy report on the web application by
inputting personal id, name, surname, and allergy drug83
System Test Case (STC-18): Doctors can update an allergy report on the web application by
inputting personal id, name, surname, and allergy drug87
System Test Case (STC-19): Doctors can delete an allergy report on the web application91
System Test Case (STC-20): Doctors can search allergy reports on the web application by using
personal id, name or surname
System Test Case (STC-21): Doctors can view an allergy report on the web application98
System Test Case (STC-22): Doctors can view list of allergy reports on the web application. 100
System Test Case (STC-23): FDAs can view a FDA home page on the web application102
System Test Case (STC-24): FDAs can view an allergy report on the web application
System Test Case (STC-25): FDAs can view list of allergy reports on the web application105
System Test Case (STC-26): Patients can login to the mobile application by using username and
password
System Test Case (STC-27): Patients can logout from the mobile application
System Test Case (STC-28): Patients can view the QR code on the mobile application111
System Test Case (STC-29): Pharmacists can scan the QR code on the mobile application112
System Test Case (STC-30): Pharmacists can add the time of dispensation to patient's profile on
the mobile application.
Chapter Five   Appendix
Appendix A
Chapter Six   Reference

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat	Page	4
Document Type	Test Plan	Release Date	Sitthitun July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

## **Chapter One | Introduction**

## 1.1 Objectives

The objective of the Software Design Document for "Smart prescription application" both Android mobile application and web application are to provide a description and explain of the design system including activity following requirements specification and before programming. This document is based on the project proposal, project plan and software requirement specification and help developers to understand how to work for this application.

## 1.2 Scope

Smart prescription application consists of a web application and a mobile application. Smart prescription application requires a web application for creating a patient's profile and allergy report by a doctor and the Smart prescription application require a mobile application to generate and scan the QR code on a mobile phone by a pharmacist.

The features of the web application consist of:

Feature#1: Prescription system

Feature#2: Account management system

Feature#3: Authentication system Feature#5: Report allergy system

Feature#6: Allergy drug summary report system

The features of the mobile application consist of:

Feature#4: Prescription verification system

### 1.3 Acronyms and Definitions

#### 1.3.1 Acronyms

UTC	Unit Test Case
STC	System Test Case

SRS Software Requirement Specification
URS User Requirement Specification
SDD Software Design Document

UI User Interface

#### 1.3.2 Definitions

Feature Transformation of input parameters to output parameters based

on a specified algorithm. It describes the functionality of a product in the language of the product. Used for requirements

analysis, design, coding, testing or maintenance.

Unit test A unit of work is a single logical functional use case in the

system that can be invoked by some public interface (in most cases). A unit of work can span a single method, a whole class or multiple classes working together to achieve one single

logical purpose that can be verified. [1]

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat	Page	5
			Sitthitun		
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

## **Chapter Two | Test Plan and Test Procedure**

### 2.1 Test Objectives

The objectives of testing "Smart Prescription Application" application are:

- To detect and fix all bugs and defects.
- To cover all requirements that is functional, non-function, or user interface-related.
- To gain the acceptance and approval of the stakeholders in the test effort.
- To direct, guide and constrain the test effort, focusing the work on the useful and necessary deliverables.

## 2.2 Scope of Testing

"Smart Prescription Application" application will be tested using both white-box testing technique (i.e. unit testing) and black-box testing technique (i.e. system testing). The test results will be documented in the Test Record.

#### 2.3 Test Duration

Date	
<b>Perform date:</b> July, 16 <sup>th</sup> 2016	
<b>Duration:</b> July, 30 <sup>th</sup> 2016	

#### 2.4 Test Responsibility

Item	Responsibility
Unit test of "Smart Prescription Application"	Natthakan Kaeokanpai,
web application	Phithiwat Sitthitun
System test of "Smart Prescription Application"	Natthakan Kaeokanpai,
web application	Phithiwat Sitthitun
Unit test of "Smart Prescription Application"	Natthakan Kaeokanpai,
mobile application	Phithiwat Sitthitun
System test of "Smart Prescription Application"	Natthakan Kaeokanpai,
mobile application	Phithiwat Sitthitun

## 2.5 Test Strategy

"Smart Precription Application" application testing is performed in following steps:

- Design test case for each feature.
- Prepare test data for each feature.
- Determine expected results.
- · Perform testing on individual features.
- Record testing result.
- Store all test files in the project repository.

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	6
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

#### 2.6 Result of Testing

All the test results will be documented in the Test Record and separated into two parts, which are:

- 1. Actual output: The actual output that is produced by each test case.
- 2. Test Pass/Fail criteria:
  - 2.1 Test Pass: The actual result is same as expected result.
  - 2.2 Test Fail: The actual result is not same as expected result.

#### 2.7 Test Environment

#### 2.7.1 Hardware

- Internet
- Laptops
  - 1. Dell inspiron 5220

Processor: Intel Core i5 3210M (3.1 GHz)

Processor Memory: 8GB DDR3 Memory Hard Disk: 1000GB

Operating System: Window 7 Home Basic

2. Asus X550DP-DS101

AMD A-Series A10-5750M (2.50GHz) 8GB

Memory 1TB HDD AMD Radeon Windows 8 64-Bit

#### - Mobile phone: Android Operating System with camera

1. Asus zenfone 4.5

Android 4.4.2 (KitKat)

Processor: Intel Atom Z2520DualCore

CPU Speed: 1.2 GHz Memory 8GB (Internal)

RAM 1GB

2. Samsung galaxy J7

OS: Android OS, v5.1 (Lollipop)

Processor: Quad-core 1.4 GHz Cortex-A53 & quad-core 1.0 GHz Cortex-A53

Octa-core 1.5 GHz Memories 16 GB, 1.5 GB RAM 8GB (Internal)

#### 2.7.2 Software

- 1. Php Storm 8.3
- 2. Google Chrome
- 3. Android studio 2.1
- 4. Visual paradigm
- 5. Xampp

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	7
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

## **Chapter Three | Unit Testing**

#### 3.1 Class SiteController

## **3.1.1** Unit Test Case (UTC-01): login(String username, String password): Boolean

**Description:** Test login(String username, String password) method for checking username and password that are exist in the user table.

**Prerequisites or Test input:** The test data is available at Appendix A.

#### **Test cases:**

Test	Description	Input	Expected
case ID			Result
1	Test method by input username and	username = "admin"	True
	password are exist in the user table.	password = "admin"	
2	Test method by input username and	username = "admin12"	False
	password do not exist in the user table.	password = "admin12"	
3	Test method by input only username is	username = "admin"	False
	exist in the user table.	password = "admin12"	
4	Test method by input only password is	username = "admin12"	False
	exist in the user table.	password = "admin"	
5	Test method by input username without	username = "admin"	False
	password.	password = Null	
6	Test method by input password without	username = Null	False
	username.	password = "admin"	

#### 3.1.2 Unit Test Case (UTC-02): logout(): Boolean

**Description:** Test logout() method for checking web application can action to log out the current user.

**Prerequisites or Test input:** The test data is available at Appendix A.

Test case ID	Description	Input	Expected Result
1	Test logout is active when logout() is invoked.	-	True

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	8
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

### 3.2 Class UserController

## 3.2.1 Unit Test Case (UTC-03): getUserList(): ArrayList

**Description:** Test getUserList() method for checking whether the method get right list of user on the web application. The expected result will be arraylist of user.

**Prerequisites or Test input:** The test data is available at Appendix A.

Test	Description	Input	Expected Result
case ID			
1	The method should return the right arraylist of user from the database.		ArrayList <user>{ User{ id = 15, name = "Phithiwat", surname = "Sitthitun", username = "phithi", password = "1234", pssword2 = "1234", roleId = 1 } User{ id = 2, name = "Natthakan", surname = "Kaeokanpai", username = "natthakan", password = "man", password2 = "man", roleId = 2 } User{ id = 3, name = "Tony", surname = "Stark", username = "stark", username = "tony", password = "tony", password = "tony", password = "tony", roleId = 3 } }</user>

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	9
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

#### 3.2.2 Unit Test Case (UTC-04): viewUser(Int userId): Mixed

**Description:** Test viewUser(Int userId) method for checking whether the method get right user model object releted to user id. The expected result will be user model object.

**Prerequisites or Test input:** The test data is available at Appendix A.

**Test cases:** 

Test case ID	Description	Input	<b>Expected Result</b>
1	Test method by input user id that exist in the databse. The method should return the right user object related to user id.	userId = 15	User{ id = 15, name = "Phithiwat", surname = "Sitthitun", username = "phithi", password = "1234", pssword2 = "1234", roleId = 1 }
2	Test method by input user id that not exist in the database	userId = 99	False
3	Test method by not input user id.	Null	False
4	Test method by input user id with string value.	userId = "phithiwat"	False

#### 3.2.3 Unit Test Case (UTC-05): createUser(User user): Boolean

**Description:** Test createUser(User user) method for checking whether the method add the right data into the database. The data is includes name, surname, username, password, password2 and roleId.

Test	Description	Input	Expected
case ID			Result
1	Test method by input new data.	User{ name = "Steve", surname = "Rogers", username = "steve", password = "1234", password2 = "1234", roleId = 1 }	True
2	Test method by input the data that already exist. (username)	User{ name = "Tony", surname = "Stark", username = "steve", password = "tony", password2 = "tony", roleId = 2 }	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai,	Page	10
			Phithiwat Sitthitun		
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

3	Test method by input without	User{	False
	name.	name = Null,	1 4150
		surname = "Rogers",	
		username = "steve", password = "1234",	
		password = "1234", password2 = "1234",	
		roleId = 1	
		}	
4	Test method by input without	User{	False
	surname.	name = "Steve", surname = Null,	
		username = "steve",	
		password = "1234",	
		password2 = "1234",	
		roleId = 1	
5	Test method by input without	User{	False
	username.	name = "Steve",	
		surname = "Rogers",	
		username = Null, password = "1234",	
		password = "1234", password2 = "1234",	
		roleId = 1	
		}	
6	Test method by input without	User{	False
	password.	name = "Steve", surname = "Rogers",	
		username = "steve",	
		password = Null,	
		password2 = "1234",	
		roleId = 1	
7	Test method by input without	User{	False
,	password2.	name = "Steve",	Taise
		surname = "Rogers",	
		username = "steve",	
		password = "1234",	
		password2 = Null, roleId = 1	
		}	
8	Test method by input without	Úser{	False
	roleId.	name = "Steve",	
		surname = "Rogers", username = "steve",	
		password = "1234",	
		password2 = "1234",	
		roleId = Null	
		}	

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai,	Page	11
			Phithiwat Sitthitun		
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

9	Test method by input string.	"test"	False
10	Test method by input empty string.	6677	False
11	Test method by input an integer.	00	False
12	Test method by nothing input data.	Null	False

### 3.2.4 Unit Test Case (UTC-06): updateUser(User user): Boolean

**Description:** Test createUser(User user) method for checking whether the method update the right data into the database. The data is includes name, surname, username, password, password2 and roleId.

Test case ID	Description	Input	Expected Result
1	Test method by input new data.	User{ name = "Steve", surname = "Rogers", username = "steve", password = "rogers", password2 = "rogers", roleId = 2 }	True
2	Test method by input the new data that already exist. (username)	User{ name = "Steve", surname = "Rogers", username = "phithi", password = "rogers", password2 = "rogers", roleId = 2 }	False
3	Test method by input without name.	User{ name = Null, surname = "Rogers", username = "steve", password = "rogers", password2 = "rogers", roleId = 2 }	False
4	Test method by input without surname.	User{ name = "Steve", surname = Null, username = "steve", password = "rogers", password2 = "rogers", roleId = 2 }	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	12
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

5	Test method by input without username.	User{ name = "Steve", surname = "Rogers", username = Null, password = "rogers", password2 = "rogers", roleId = 2 }	False
6	Test method by input without password.	User{ name = "Steve", surname = "Rogers", username = "steve", password = Null, password2 = "rogers", roleId = 2 }	False
7	Test method by input without password2.	User{ name = "Steve", surname = "Rogers", username = "steve", password = "rogers", password2 = Null, roleId = 2 }	False
8	Test method by input without roleId.	User{ name = "Steve", surname = "Rogers", username = "steve", password = "rogers", password2 = "rogers", roleId = Null }	False
9	Test method by input string.	"test"	False
10	Test method by input empty string.	(())	False
11	Test method by input an integer.	00	False
12	Test method by nothing input data.	Null	False

## 3.2.5 Unit Test Case (UTC-07): deleteUser(Int userId): Boolean

 $\textbf{Description:} \ \ Test \ delete User (Int \ user Id) \ method \ for \ checking \ whether \ the \ method \ delete \ the \ user \ from \ the \ database.$ 

Test case ID	Description	Input	Expected Result
1	Test method by input use id that exist in the databasw.	userId = 15	True
2	Test method by input user id that not exist in the database.	userId = 99	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	13
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

#### 3.2.6 Unit Test Case (UTC-08): searchUser(String users): ArrayList

**Description:** Test searchUser(String users) method for checking whether the method can search the user from the user table in the database by using name, surname ro username. The expected result will be arraylist of user.

Test	Description	Input	Expected Result
case ID	<b></b>		
1	Test method by input name that exist in the user table.	users = "Phithiwat"	ArrayList <user>{ User{ id = 15 name = "Phithiwat", surname = "Sitthitun", username = "phithi", password = "1234", pssword2 = "1234", roleId = 1 } }</user>
2	Test method by input surname that exist in the user table	users = "Stark"	ArrayList <user>{ User{ id = 3 name = "Tony", surname = "Stark", username = "tony", password = "tony", password2 = "tony", roleId = 3 } }</user>
3	Test method by input username that exist in the user table.	users = "natthakan"	ArrayList <user>{ User{ id = 2 name = "Natthakan", surname = "Kaeokanpai", username = "natthakan", password = "man", password2 = "man", roleId = 2 } }</user>
4	Test method by input empty data.	users = ""	ArrayList <user>{ User{ id = 15, name = "Phithiwat", surname = "Sitthitun", username = "phithi", password = "1234", pssword2 = "1234",</user>

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	14
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

			roleId = 1 } User{ id = 2, name = "Natthakan", surname = "Kaeokanpai", username = "natthakan", password = "man", password2 = "man", roleId = 2 } User{ id = 3, name = "Tony", surname = "Stark", username = "tony", password = "tony", password = "tony", password = "tony", roleId = 3 } }
5	Test method by	users = "abcdefg"	Null
	input data does not exist in the user table.		

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	15
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

### 3.3 Class PatientController

### 3.3.1 Unit Test Case (UTC-09): getPatientList(): ArrayList

**Description:** Test getPatientList() method for checking whether the method get right list of patient on the web application. The expected result will be arraylist of patient.

**Prerequisites or Test input:** The test data is available at Appendix A.

Test	Description	Input	Expected Result
case ID	Description	mput	Emperica Result
1	The method should return the right arraylist of patient from the database.		ArrayList <patient>{ Patient { personal_id = 1719900241047, name = "Somkiat", surname = "Warahala", prescription = "Paracetamal 500ml.", create_by = 31, username = "somkiat", password = "54139", create_at = 2016-07-31 18:36:28, update_at = 2016-07-31 18:36:28, } Patient { personal_id = 1769900241047, name = "Dangdee", surname = "Rakna", prescription = "Vitamin C 90 ml", create_by = 32 username = "dang", password = "67045", create_at = 2016-07-30 23:55:17, update_at = 2016-07-30 23:59:23, } Patient { personal_id = 1660100485726, name = "Vikom", surname = "Chomjai", prescription = "Dextrometrophan", create_by = 32, username = "vikom", password = "58706", create_at = 2016-08-01 03:39:11, update_at = 2016-08-01 03:39:11, } }</patient>

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	16
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

#### 3.3.2 Unit Test Case (UTC-10): viewPatient(Int personal\_id): Mixed

**Description:** Test viewPatient(Int personal\_id) method for checking whether the method get right patient model object releted to personal id. The expected result will be patient model object.

Test	Description	Input	Expected Result
case ID			
1	Test method by input personal id that exist in the databse. The method should return the right patient object related to personal id.	personal_id = 1719900241047	Patient {     personal_id = 1719900241047,     name = "Somkiat",     surname = "Warahala",     prescription = "Paracetamal     500ml.",     create_by = 31,     username = "somkiat",     password = "54139",     create_at = 2016-07-31     18:36:28,     update_at = 2016-07-31     18:36:28 }
2	Test method by input personal id that not exist in the database	int personal_id = 111111111111111	False
3	Test method by not input personal id.	Null	False
4	Test method by input personal id with string value.	string personal_id = "personal id"	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	17
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

#### 3.3.3 Unit Test Case (UTC-11): createPatient(Patient patient): Boolean

**Description:** Test createPatient(Patient patient) method for checking whether the method add the right data into the database. The data is includes personal id, name, surname, prescription, and username.

Test ca		T4	T
Test case ID	Description	Input	Expected Result
1	Test method by input new data.	Patient{ personal_id = 1660100485726, name = "Vikom", surname = "Chomjai", prescription = "Paracetamal 500ml.", username = "vikom", }	True
2	Test method by input the data that already exist. (personal id)	Patients{ personal_id = 1660100485726 name = "Mana", surname = "Sornjai", prescription = "Aspirin 75ml.", username = "mana", }	False
3	Test method by input the data that already exist. (username)	Patients{ personal_id = 1660100485726, name = "Mana", surname = "Sornjai", prescription = "Aspirin 750ml.", username = "vikom", }	False
4	Test method by input without personal id.	Patients {     personal_id = Null,     name = "Vikom",     surname = "Chomjai",     prescription = "Paracetamal 500ml.",     username = "vikom",   }	False
5	Test method by input without name.	Patients{ personal_id = 1660100485726, name = Null, surname = "Chomjai", prescription = "Paracetamal 500ml.", username = "vikom", }	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	18
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

6	Test method by input without surname.	Patient {     personal_id = 1660100485726,     name = "Vikom",     surname = Null,     prescription = "Paracetamal 500ml.",     username = "vikom",     }	False
7	Test method by input without prescription.	Patient{ personal_id = 1660100485726, name = "Vikom", surname = "Chomjai", prescription = Null, username = "vikom", }	Fasle
8	Test method by input without username.	Patients{ personal_id = 1660100485726, name = "Vikom", surname = "Chomjai", prescription = "Paracetamal 500ml.", username = Null, }	False
9	Test method by input string.	"test"	False
10	Test method by input empty string.	(0)	Flase
11	Test method by input an integer.	123	False
12	Test method by nothing input data.	Null	False

D	Ocument Name	Smart Prescription	Owner	Natthakan	Page	19
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
D	Oocument Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
			Date	-		2016

#### 3.3.4 Unit Test Case (UTC-12): updatePatient(Patient patient): Boolean

**Description:** Test updatePatient(Patient patient) method for checking whether the method update the right data into the database. The data is includes personal id, name, surname, prescription, and username.

Test ca	Description	Input	Expected
case ID	_	•	Result
1	Test method by input new data.	Patient{ personal_id = 1660100485726, name = "Vikom", surname = "Chomjai", prescription = "Paracetamal 500ml. Multivitamin, B Complex", username = "vikom", }	True
2	Test method by input the data that already exist. (personal id)	Patient {     personal_id = 1660100485726,     name = "Vikom",     surname = "Chomjai",     prescription = "Paracetamal 500ml.     Multivitamin, B Complex",     username = "vikom",     }	False
3	Test method by input the data that already exist. (username)	Patient {     personal_id = 1660100485726,     name = "Vikom",     surname = "Chomjai",     prescription = "Paracetamal 500ml.,     Multivitamin, B Complex",     username = "somkiat",     }	False
4	Test method by input without personal id.	Patient {     personal_id = Null,     name = "Vikom",     surname = "Chomjai",     prescription = "Paracetamal 500ml.,     Multivitamin, B Complex",     username = "vikom",     }	False
5	Test method by input without name.	Patient {     personal_id = 1660100485726,     name = Null,     surname = "Chomjai",     prescription = "Paracetamal 500ml.,     Multivitamin, B Complex",     username = "vikom", }	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	20
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

6	Test method by input without surname.	Patient {     personal_id = 1660100485726,     name = "Vikom",     surname = Null,     prescription = "Paracetamal 500ml.,     Multivitamin, B Complex",     username = "vikom",     }	False
7	Test method by input without prescription.	Patient {     personal_id = 1660100485726,     name = "Vikom",     surname = "Chomjai",     prescription = Null,     username = "vikom",     }	Fasle
8	Test method by input without username.	Patient{ personal_id = 1660100485726, name = "Vikom", surname = "Chomjai", prescription = "Paracetamal 500ml., Multivitamin, B Complex", username = Null, }	False
9	Test method by input string.	"test"	False
10	Test method by input empty string.	cc>>	Flase
11	Test method by input an integer.	123	False
12	Test method by nothing input data.	Null	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	21
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

#### 3.3.5 Unit Test Case (UTC-13): deletePatient(Int personal\_id): Boolean

Description: Test deletePatient(Int personal\_id) method for checking whether the method delete the patient from the database.

Prerequisites or Test input: The test data is available at Appendix A.

#### **Test cases:**

Test	Description	Input	Expected
case ID			Result
1	Test method by input personal id	personal_id =	True
	that exist in the database.	179900241047	
	that exist in the database.	179900241047	
2	Test method by input user id that	personal_id =	False
	not exist in the database.	1234567890987	
	not exist in the database.	1234307890987	

#### 3.3.6 Unit Test Case (UTC-14): searchPatient(String patients): ArrayList

Description: Test searchPatient(String patients) method for checking whether the method can search the patient from the patient table in the database by using personal id, name or surname. The expected result will be arraylist of patient.

1est ca	ases:	
Test	Description	
case ID		

Test	Description	Input	Expected Result
case ID	•	•	•
1	Test method by input personal id that exist in the patient table.	patients = "1660100485726"	ArrayList <patient>{ Patient { personal_id = 1660100485726 name = "Vikom", surname = "Chomjai", prescription = "Dextrometrophan", create_by = 32 username = "vikom", password = "58706", create_at = 2016-08-01 03:39:11 update_at = 2016-08-01 03:39:11 } }</patient>
2	Test method by input name that exist in the user table.	patients = "Somkiat"	ArrayList <patient>{ Patient { personal_id = 1719900241047 name = "Somkiat", surname = "Warahala", prescription = "Paracetamal 500ml.", create_by = 31 username = "somkiat", password = "54139", create_at = 2016-07-31 18:36:28 update_at = 2016-07-31 18:36:28 } }</patient>

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	22
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

3	Test method by input surname that exist in the user table	patients = "Rakna"	ArrayList <patient>{     Patient {         personal_id = 1769900241047         name = "Dangdee",         surname = "Rakna",         prescription = "Vitamin C 90 ml",         create_by = 32         username = "dang",         password = "67045",         create_at = 2016-07-30 23:55:17         update_at = 2016-07-30 23:59:23     } }</patient>
4	Test method by input empty data.	patiens = ""	ArrayList <patient>{     Patient {         personal_id = 1719900241047,         name = "Somkiat",         surname = "Warahala",         prescription = "Paracetamal         500ml.",         create_by = 31,         username = "somkiat",         password = "54139",         create_at = 2016-07-31 18:36:28,         update_at = 2016-07-31 18:36:28,     }     Patient {         personal_id = 1769900241047,         name = "Dangdee",         surname = "Rakna",         prescription = "Vitamin C 90 ml",         create_by = 32         username = "dang",         password = "67045",         create_at = 2016-07-30 23:55:17,         update_at = 2016-07-30 23:59:23,     }     Patient {         personal_id = 1660100485726,         name = "Vikom",         surname = "Chomjai",         prescription = "Dextrometrophan",         create_by = 32,         username = "vikom",         password = "58706",         create_at = 2016-08-01 03:39:11,         update_at = 2016-08-01 03:39:11,     } }</patient>

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	23
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

5	Test method by	patients = "qwert"	Null
	input data does		
	not exist in the		
	patient table.		

## 3.4 Class AllergyController

## 3.4.1 Unit Test Case (UTC-15): getAllergyList(): ArrayList

**Description:** Test getAllergyList() method for checking whether the method get right list of allergy report on the web application. The expected result will be arraylist of allergy.

**Prerequisites or Test input:** The test data is available at Appendix A.

	ases:	<b>.</b>	T ( I D ) (
Test	Description	Input	Expected Result
case ID			
1	The method should return the right arraylist of allergy report from the database.		ArrayList <allergy>{     Allergy id = 8,     personal_id = 1759900241047,     name = "Phithiwat",     surname = "Sitthitun",     allergy_drug = "Pyramidone,     co-trimoxazole, aspirin",     reporter = 32,     create_at = 2016-07-30 04:15:11,     update_at = 2016-07-31 04:42:21,     }     Allergy {         allergy_id = 10,         personal_id = 1600100485726,         name = "Natthakan",         surname = "Kaeokanpai",         allergy_drug = "Vitamin C",         reporter = 32,         create_at = 2016-07-31 04:20:43,         update_at = 2016-07-31 04:20:43,     }     Allergy {         allergy_id = 11,         personal_id = 1779900241047,         name = "Somjai",         surname = "Ngaila",         allergy_drug = "Multivitamins",         reporter = 31,         create_at = 2016-07-31 18:47:11,         update_at = 2016-07-31 18:47:11,     } }</allergy>

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	24
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

### 3.4.2 Unit Test Case (UTC-16): viewAllergy(Int allergy\_id): Mixed

**Description:** Test viewAllergy(Int allergy\_id) method for checking whether the method get right allergy model object releted to allergy id. The expected result will be allergy model object.

Test	Description	Input	Expected Result
case ID			
1	Test method by input allergy id that exist in the databse. The method should return the right allergy object related to allergy id.	int allergy_id = 11	Allergy{ allergy_id = 11, personal_id = 1779900241047, name = "Somjai", surname = "Ngaila", allergy_drug = "Multivitamins", reporter = 31, create_at = 2016-07-31 18:47:11, update_at = 2016-07-31 18:47:11 }
2	Test method by input allergy id that not exist in the database	int allergy_id = 99	False
3	Test method by not input allergy id.	Null	False
4	Test method by input allergy id with string value.	string allergy_id = "allergyid"	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	25
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

## 3.4.3 Unit Test Case (UTC-17): getAllergyList2(): ArrayList

**Description:** Test getAllergyList2() method for checking whether the method get right list of allergy report on the web application. The expected result will be arraylist of allergy.

**Prerequisites or Test input:** The test data is available at Appendix A.

	Test cases:						
Test	Description	Input	Expected Result				
case ID							
1	The method should return the right arraylist of allergy report from the database.	-	ArrayList <allergy>{     Allergy{         allergy_id = 8,         personal_id = 1759900241047,         name = "Phithiwat",         surname = "Sitthitun",         allergy_drug = "Pyramidone,         co-trimoxazole, aspirin",         reporter = 32,         create_at = 2016-07-30 04:15:11,         update_at = 2016-07-31 04:42:21     }     Allergy{         allergy_id = 10,         personal_id = 1600100485726,         name = "Natthakan",         surname = "Kaeokanpai",         allergy_drug = "Vitamin C",         reporter = 32,         create_at = 2016-07-31 04:20:43,         update_at = 2016-07-31 04:20:43     }     Allergy{         allergy_id = 11,         personal_id = 1779900241047,         name = "Somjai",         surname = "Ngaila",         allergy_drug = "Multivitamins",         reporter = 31,         create_at = 2016-07-31 18:47:11,         update_at = 2016-07-31 18:47:11,     } }</allergy>				

Document N	Vame	Smart Prescription	Owner	Natthakan	Page	26
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
Document T	уре	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
			Date	-		2016

### 3.4.4 Unit Test Case (UTC-18)viewAllergy2(Int allergy\_id): Mixed

**Description:** Test viewAllergy2(Int allergy\_id) method for checking whether the method get right allergy model object releted to allergy id. The expected result will be allergy model object.

Test	Description	Input	Expected Result
case ID			
1	Test method by input allergy id that exist in the databse. The method should return the right allergy object related to allergy id.	allergy_id = 8	Allergy{ allergy_id = 8, personal_id = 1759900241047, name = "Phithiwat", surname = "Sitthitun", allergy_drug = "Pyramidone, co-trimoxazole, aspirin", reporter = 32, create_at = 2016-07-30 04:15:11, update_at = 2016-07-31 04:42:21, }
2	Test method by input allergy id that not exist in the database	allergy_id = 00	False
3	Test method by not input allergy id.	Null	False
4	Test method by input allergy id with string value.	allergy_id = "allergyreport"	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	27
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

### 3.4.5 Unit Test Case (UTC-19): createAllergy(Allergy allergy): Boolean

**Description:** Test createAllergy(Allergy allergy) method for checking whether the method add the right data into the database. The data is includes personal id, name, surname, and allery drugs.

Test case ID	Description	Input	Expected Result
1	Test method by input new data.	Allergy{ personal_id = 1600100485726, name = "Natthakan", surname = "Kaeokanpai", allergy_drug = "Vitamin C", }	True
2	Test method by input the data that already exist. (personal id)	Allergy{ personal_id = 1600100485726, name = "Phithiwat", surname = "Sitthitun", allergy_drug = "Pyramidone, Co-Trimoxazole, Aspirin", }	False
3	Test method by input without personal id.	Allergy{ personal_id = Null, name = "Natthakan", surname = "Kaeokanpai", allergy_drug = "Vitamin C", }	False
4	Test method by input without name.	Allergy{ personal_id = 1600100485726, name = Null, surname = "Kaeokanpai", allergy_drug = "Vitamin C", }	False
5	Test method by input without surname.	Allergy{ personal_id = 1600100485726, name = "Natthakan", surname = Null, allergy_drug = "Vitamin C", }	False
6	Test method by input without allergy drug.	Allergy{ personal_id = 1600100485726 name = "Natthakan", surname = "Kaeokanpai", allergy_drug = Null }	False
7	Test method by input string.	"Allergy"	False
8	Test method by input empty string.	4677	Flase

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	28
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

9	Test method by input an	500	False
	integer.		
10	Test method by nothing	Null	False
	input data.		

### 3.4.6 Unit Test Case (UTC-20): updateAllergy(Allergy allergy): Boolean

**Description:** Test updateAllergy(Allergy allergy) method for checking whether the method update the right data into the database. The data is includes personal id, name, surname, and allergy drug.

Test	Description	Input	Expected
case ID			Result
1	Test method by input new data.	Allergy {     personal_id = 1600100485726,     name = "Natthakan",     surname = "Kaeokanpai",     allergy_drug = "Vitamin C,     Multivitamins",     }	True
2	Test method by input the data that already exist. (personal id)	Allergy { personal_id = 1759900241047, name = "Natthakan", surname = "Kaeokanpai", allergy_drug = "Vitamin C, Multivitamins", }	False
3	Test method by input without personal id.	Allergy { personal_id = Null, name = "Natthakan", surname = "Kaeokanpai", allergy_drug = "Vitamin C, Multivitamins", }	False
4	Test method by input without name.	Allergy { personal_id = 1600100485726, name = Null, surname = "Kaeokanpai", allergy_drug = "Vitamin C, Multivitamins", }	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	29
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

5	Test method by input without surname.	Allergy{ personal_id = 1600100485726, name = "Natthakan", surname = Null, allergy_drug = "Vitamin C", }	False
6	Test method by input without allergy drug.	Allergy{ personal_id = 1600100485726 name = "Natthakan", surname = "Kaeokanpai", allergy_drug = Null }	False
7	Test method by input string.	"Allergy"	False
8	Test method by input empty string.	(())	Flase
9	Test method by input an integer.	500	False
10	Test method by nothing input data.	Null	False

## 3.4.7 Unit Test Case (UTC-21): deleteAllergy(Int allergy\_id): Boolean

**Description:** Test deleteAllergy(Int allergy\_id) method for checking whether the method delete the allergy from the database.

Test	Description	Input	Expected
case ID			Result
1	Test method by input allergy id that exist in the database.	allergy_id = 8	True
2	Test method by input allergy id that not exist in the database.	allergy_id = 789	False

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	30
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

#### 3.4.8 Unit Test Case (UTC-22): searchAllergy(String allergies): ArrayList

**Description:** Test searchAllergy(String allergies) method for checking whether the method can search the allergy report from the allergy table in the database by using personal id, name or surname. The expected result will be arraylist of allergy report.

Test	<b>Description</b>	Input	Expected Result
case ID	•	•	•
1	Test method by input personal id that exist in the allergy table.	allergies = "1759900241047"	ArrayList <allergy>{ Allergy{ allergy_id = 8 personal_id = 1759900241047 name = "Phithiwat", surname = "Sitthitun", allergy_drug = "Pyramidone, co-trimoxazole, aspirin", reporter = 32 create_at = 2016-07-30 04:15:11 update_at = 2016-07-31 04:42:21 } }</allergy>
2	Test method by input name that exist in the user table.	allergies = "Somjai"	ArrayList <allergy>{ Allergy { allergy_id = 11 personal_id = 1779900241047 name = "Somjai", surname = "Ngaila", allergy_drug = "Multivitamins", reporter = 31 create_at = 2016-07-31 18:47:11 update_at = 2016-07-31 18:47:11 } }</allergy>
3	Test method by input surname that exist in the user table	allergies = "Kaeokanpai"	ArrayList <allergy>{     Allergy {         allergy_id = 10         personal_id = 1600100485726         name = "Natthakan",         surname = "Kaeokanpai",         allergy_drug = "Vitamin C",         reporter = 32         create_at = 2016-07-31 04:20:43         update_at = 2016-07-31 04:20:43     } }</allergy>

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	31
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

4	Test method by	allergies = ""	ArrayList <allergy>{</allergy>
	input empty data.	unergies	Allergy{
	imput cimpty data.		allergy_id = 8,
			personal_id = 1759900241047,
			name = "Phithiwat",
			surname = "Sitthitun",
			allergy drug = "Pyramidone,
			co-trimoxazole, aspirin",
			reporter = 32,
			create_at = 2016-07-30 04:15:11,
			update_at = 2016-07-31 04:13:11,
			update_at = 2010-07-31 04.42.21,
			\ \lambda 11\ \text{oray} \lambda
			Allergy{ allergy_id = 10,
			personal_id = 1600100485726,
			name = "Natthakan",
			surname = "Kaeokanpai",
			allergy drug = "Vitamin C",
			reporter = 32,
			create_at = 2016-07-31 04:20:43,
			update_at = 2016-07-31 04:20:43,
			}   }   Allowers (
			Allergy{
			allergy_id = 11,
			personal_id = 1779900241047,
			name = "Somjai",
			surname = "Ngaila",
			allergy_drug = "Multivitamins",
			reporter = 31,
			create_at = 2016-07-31 18:47:11,
			update_at = 2016-07-31 18:47:11,
			}
	m	11 ' "	}
5	Test method by	allergies = "aaaaa"	Null
	input data does		
	not exist in the		
	allergy table.		

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	32
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

## 3.5 Class LoginEvenManager

#### 3.5.1 Unit Test Case (UTC-23): Login(): void

**Description:** Test for check evaluation result of procedure when the user login to the system, the system will return ['status'] = 1 when user login by input both username and password in the text field and return ['status'] = 0 when user login only username or password or did not input both of username and password.

#### **Test cases:**

Test	Description	Input	<b>Expected Result</b>
case ID			
1	Test method Login() by input a username and password.	<pre>username = "username"; password = "password";</pre>	['status'] = 1
2	Test method Login() by input a username without password.	username = "username"; password = Null	['status'] = 0
3	Test method Login() by input a password without username.	username = Null password = "password";	['status'] = 0
4	Test method Login() by input a username and password.	username = Null password = Null	['status'] = 0

## 3.6 Class PreferencesManager

#### 3.6.1 Unit Test Case (UTC-24): getUserInformation(): UserInformationModel

**Description:** Test for check the result of getUserInformation () that can get the information by the result will be not Null.

Test	Description	Input	<b>Expected Result</b>
case ID			
1	Test method getUserInformation() that can get the information by input UserInformationModel.	UserInformationModel	UserInformationM odel is not Null

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	33
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

## 3.7 Class QRCodeEncoder

## 3.7.1 Unit Test Case (UTC-25): encode(String contents, BarcodeFormat format, int width, int height): BitMatrix

**Description:** Test for check the method encode() can input the value and then return the same input value by input .

Test case ID	Description	Input	Expected Result
1	Test method encode() that can return the same value by input the value (String = "contents", BarcodeFormat = "format", int = "9",int = "9")	BitMatrix {String = "contents", BarcodeFormat = "format", int = "9",int = "9")}	BitMatrix {contents = "contents", BarcodeFormat = "format", int = "9",int = "9")}

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	34
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

Chapter Four | System Testing
System Test Case (STC-01): Doctors can view a doctor home page on the web application.

<b>Test Description</b>	This test case is a system testing for URS-01. Doctors view a doctor home		
	page on the web application.		
Prerequisite	Prerequisite Doctor must login.		
Prepared Data	The system prepare the information from the database which includes		
_	position, name, surname and username.		
Test Steps	1. Doctor selects to "Home" on menu bar.		

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	35
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expected Result			
1.1	Description  Test that doctor login to the web application successful.	Input -	The system shall	display the doctor home page vertions menu box and allergy operations	which includes information of current cions menu box.  Home Logout (somptiong)  Patient Options 1  Create Patients  Allergy Options 1	
			© Smart Prescription A	pplication 2016	♣ Create Allergy Reports  ♣ Manage Allergy Reports  >>>  >>>  >>>  >>>  >>>  >>>  >>>	

Document Name	Smart Prescription	Owner	Natthakan	Page	36
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date	_		2016

#### System Test Case (STC-02): Doctors can create patient's profiles on the web application application by inputting personal id, name, surname, prescription or username.

<b>Test Description</b>	This test case is a system testing for URS-02. Doctors can create patient's profiles on the web application application by inputting personal id, name, surname, prescription or username.					
Prerequisite	Doctor must login. The system shall display a doctor home page.					
Prepared Data	The system prepare the create form which includes personal id, name, surname, prescription, and username.					
Test Steps	1. Doctor selects to "Create Patient" on patient options menu box.  Patient Options  + Create Patients  2. Input information into the create form for create the patient profile. 3. Doctor clicks on "Create" button.					

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	37
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	<b>Expected Resul</b>	lt		
1.1	Test that doctor inputs personal id is number 13 digits. Input name, surname, and responsible are English letters and input prescription.	personal_id = "1610010025485", name = "Natthakan", surname = "Kaeokanpai", prescription = "Chlorpheniramine maleate 10 dose, Cetirizine 10 dose, Hydroxyzine 10 dose", username = "natthakan"	_	he patient	Natthakan	
1.2	Test that doctor inputs personal id that already exist.	personal_id = "1759900241047"	Result : Personal ID	1-7599-0024	ge "Personal ID has already been exist.".  41-04-7 as already been exist.	

Document Name	Smart Prescription	Owner	Natthakan	Page	38
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

1.2	Test that doctor inputs personal id is invalid.	personal_id = "1111111111111"	System displays error message "Personal ID is Invalid".  Result:  Personal ID 1-1111-1111-1-1
			Personal ID is Invalid.
1.3	Test that doctor inputs personal id is number but less than 13 digits.	personal_id = "16100185"	System displays error message "Personal ID is Invalid". Result:
			Personal ID
1.4	Test that doctor do not input personal id.	_	System displays error message "Personal ID cannot be blank".  Result:  Personal ID  Personal ID cannot be blank.
1.5	Test that doctor do not input name.	_	System displays error message "Name cannot be blank".  Result:  Name  Name cannot be blank.

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	39
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date			2016

1.6	Test that doctor inputs name is not English letters.	name = "ผัฐกานต์"	stem displays error message "Name is invalid sult :	
			Name ณัฐกานต์	
			Name is invalid.	
1.7	Test that doctor input name is number.	name = "1234"	stem displays error message "Name is invalidesult:	
			Name 1234	
			Name is invalid.	
1.8	Test that doctor do not inputs surname.	_	stem displays error message "Surname cannot esult:	be blank".
			urname	
			Surname cannot be blank.	
1.9	Test that doctor inputs surname is not English letters.	surname = "แก้วกันภัย"	stem displays error message "Surname is invalesult:	id".
			urname แก้วกันภัย	
			Surname is invalid.	

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat	Page	40
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

1.10	Test that doctor inputs surname is number.	surname = "1113"	System displays error message "Surname is invalid".  Result:  Surname  1113  Surname is invalid.
1.9	Test that doctor do not input prescription.		System displays error message "Prescription cannot be blank".  Result:  Prescription  Prescription cannot be blank.
1.12	Test that doctor do not input username.	_	System displays error message "Username cannot be blank".  Result:  Username  Username cannot be blank.
1.13	Test that doctor inputs username that exist on database.	username = "phithi"	System displays error message "Username has already been taken. Please change".  Result:  Username phithi  Username has already been taken. Please change.

Document Name	Smart Prescription	Owner	Natthakan	Page	41
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date	_		2016

#### System Test Case (STC-03): Doctors can update patient's profiles on the web application application by inputting personal id, name, surname, prescription and username.

<b>Test Description</b>	This test case is a system testing for URS-03. Doctors can update patient's profiles on the web application application by inputting personal id, name, surname, prescription and username.					
Prerequisite	Doctor has create patient's profile successfully before. The system shall display a doctor home page.					
Prepared Data	The system prepare the old information and update form which includes personal id, name, surname, prescription, and username.					
Test Steps	1. Doctor selects "Manage Patients" button on patient options menu box.  Patient Options   Create Patients  Manage Patients  1. Manage Patients  in the options column of table. 3. Input new information into update form for update patient's profile. 4. Doctor selects "Update" button.					

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	42
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	<b>Expected Res</b>	ult		
2.1			System saves patient's profession patient's profession patient and patient's profession patient's profession patient and patient and patients profession patients prof		's information to the database  1-6001-00485-72-6  NewNatthakan  NewKaeokanpal  Dextrometrophan 750 ml.  Dr. Somphong  man  05936	and also displays the  Home Logout (somphong)
2.3	Test that doctor inputs personal id that already exist.	Personal_id = "1759900241047"	Create Date Update Time  © Smart Prescription.  System display Result:  Personal ID	**		✓ Update If Delete

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	43
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

2.2	Test that doctor inputs personal id is invalid.	Personal_id = "1111111111111"	System disp Result :	ays error message "Personal ID is Invalid".
			Personal ID	1-1111-1111-1
				Personal ID is Invalid.
2.3	Test that doctor inputs personal id is number but less than 13	Personal_id = "16100185"	System disp Result :	ays error message "Personal ID is Invalid".
	digits.		Personal ID	1-6100-185
				Personal ID is Invalid.
2.4	Test that doctor do not input personal id.	_	System disp Result :	ays error message "Personal ID cannot be blank".
			Personal ID	
				Personal ID cannot be blank.
2.4	Test that doctor do not input name.	_	System disp Result :	ays error message "Name cannot be blank".
			Name	
			1	lame cannot be blank.
2.5	Test that doctor inputs name is not English letters.	Name = "พัฐกานต์"	System disp Result :	ays error message "Name is invalid
			Name	ณัฐกานต์
			ì	lame is invalid.

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	44
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

2.6	Test that doctor input name is number.	Name = "1234"	System displays error message "Name is invalid Result :
			Name 1234
2.7	Test that doctor do not inputs surname.	_	Name is invalid.  System displays error message "Surname cannot be blank".  Result:
			Surname
2.8	Test that doctor inputs surname	Surname = "แก้วกันภัย"	System displays error message "Surname is invalid".
	is not English letters.	Surraine solverings	Result:
			Surname แก้วกันภัย Surname is invalid.
2.9	Test that doctor inputs surname is number.	Surname = "1113"	System displays error message "Surname is invalid".  Result:
			Surname 1113
			Surname is invalid.

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat	Page	45
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date			2016

2.10	Test that doctor do not input prescription.	_	System displays error message "Prescription cannot be blank".  Result:					
			Prescription					
			Prescription can	not be blank.				
2.11	Test that doctor do not input	_	System displays error messag	ge "Username cannot be blank".				
	username.		Result:					
			Username					
			Username cannot	t be blank.				
2.12	Test that doctor inputs username that exist on database.	Username = "phithi"	System displays error messag Result :	ge "Username has already been taken. Please change".				
			<b>Username</b> phithi					
			Username has al	ready been taken. Please change.				

	Document Name	Smart Prescription	Owner	Natthakan	Page	46
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
ĺ	Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
Į			Date	-		2016

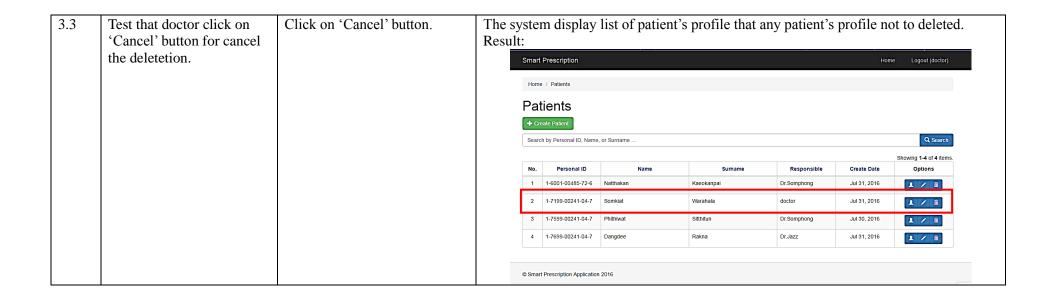
## System Test Case (STC-04): Doctors can delete patient's profiles on the web application.

<b>Test Description</b>	This test case is a system testing for URS-04. Doctors can delete patient's profiles on the web application.								
Prerequisite	Doctor has create patient's profile successfully before. The system shall display a doctor home page.								
<b>Prepared Data</b>	The system prepare the patient's profiles.								
Test Steps	1. Doctor selects "Manage Patient" button on patient options menu box.								
	Patient Options    + Create Patients  Manage Patients								
	<ol> <li>Doctor selects "Delete" ( ) button in the options column of table.</li> <li>Doctor select 'OK' button on the confirm box.</li> </ol>								

Document Namo	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat	Page	47
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

ID	Description	Input	Expect	ed Result					
3.1	Test that doctor clicks on 'Delete' button for delete patient's profile from the	Click on 'Delete' button.	The system interface to show the confirm box "Are you sure you want to del item?" and delete from database after click button 'OK'.  Result:						
	database.			localhos Are you si		o delete this item	n?	(	<b>X</b> Cancel
3.2	Test that doctor click on 'OK' button for confirm the deleteion.	Click on 'Ok' button.	Result:	art Prescription ome / Patients atients Create Patient	nout profile t	hat delete			
				earch by Personal ID, Name	e, or Surname				Q Search
				o. Personal ID	Name	Surname	Responsible	Create Date	Showing 1-3 of 3 items.  Options
				1 1-6001-00485-72-6	Natthakan	Kaeokanpai	Dr. Somphong	Jul 31, 2016	1 / 1
				2 1-7599-00241-04-7	Phithiwat	Sitthitun	Dr. Somphong	Jul 30, 2016	1 / =
				3 1-7699-00241-04-7	Dangdee	Rakna	Dr.Jazz	Jul 31, 2016	1 / 1
			© S	mart Prescription Applicatio	n 2016				

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	48
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016



Document Name	Smart Prescription	Owner	Natthakan	Page	49
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date	_		2016

## System Test Case (STC-05): Doctors can search patient's profiles on the web application by using personal id, name or surname.

Test Description	This test case is a system testing for URS-05. Doctors can search patient's profiles on the web application by using personal id, name, or surname.				
Prerequisite	Doctor has create a patient's profile successfully. The system shall display a doctor home page.				
Prepared Data	The system prepare the information from the database to searching about personal id, name and surname.				
Test Steps	1. Doctor selects "Manage Patient" button on patient options menu box.  Patient Options  + Create Patients  Manage Patients  2. Input the data about personal ID, name, or surname for searching. 3. Doctor selects "Seach" button.				

Document N	lame	Smart Prescription	Owner	Natthakan	Page	50
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
Document T	ype	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
			Date	-		2016

ID	Description	Input	Exp	ected Resu	lt				
4.1	Test that input personal ID is exist in the database.		Syst Rest		s patient's infor	mations.			
			1-7599	9-00241-04-7					Q Search
									Showing 1-1 of 1 item.
			No.	Personal ID	Name	Surname	Responsible	Create Date	Options
			1	1-7599-00241-04-7	Phithiwat	Sitthitun	Dr.Somphong	Jul 30, 2016	1 / 前
4.2	Test that input some digits of personal ID are exist in the database.	personal id = "1-7"	Syst Resu		s patient's infor	mations.			<b>Q</b> Search
									Showing 1-3 of 3 items.
			No.	Personal ID	Name	Surname	Responsible	Create Date	Options
			1	1-7199-00241-04-7	Somkiat	Warahala	Dr.Somphong	Jul 30, 2016	1 / 前
			2	1-7599-00241-04-7	Phithiwat	Sitthitun	Dr.Somphong	Jul 30, 2016	1 / 1
			3	1-7699-00241-04-7	Dangdee	Rakna	Dr.Jazz	Jul 31, 2016	1 / 前
4.3	Test that input personal ID is not exist in the database.	personal id = "1-1111-1111-1"	1-111. No.		s message "No	results found".	Responsible	Create Date	Q Search Options

Document Name	Smart Prescription	Owner	Natthakan	Page	51
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

4.4	Test that input name is exist in the database.	name = "Phithiwat"	System displays Result:	patient's informa	tion.			
			Phithiwat					Q Search
								Showing 1-1 of 1 item.
			No. Personal ID	Name	Surname	Responsible	Create Date	Options
			1 1-7599-00241-04-7	Phithiwat	Sitthitun	Dr.Somphong	Jul 30, 2016	1 / 1
4.5	Test that input some letters of name are exist in the database.	name = "wat"	System displays Result:	patient's informa	tion.			
			wat					Q Search
								Showing 1-1 of 1 item.
			No. Personal ID	Name	Surname	Responsible	Create Date	Options
			1 1-7599-00241-04-7	Phithiwat	Sitthitun	Dr.Somphong	Jul 30, 2016	1 / 1
4.6	Test that input name is not exist in the database.	name = "Buggy"	System displays Result:	s message "No res	ults found."			
			Buggy					Q Search
			No. Personal ID	Name	Surname	Responsible	Create Date	Options
			No results found.					
4.7	Test that input surname is exist in the database.	surname = "Kaeokanpai"	System displays Result :	patient's informa	tion.			
			Kaeokanpai					Q Search
								Showing 1-1 of 1 item.
			No. Personal ID	Name	Surname	Responsible	Create Date	Options
			1 1-6001-00485-72-6	Natthakan	Kaeokanpai	Dr.Somphong	Jul 31, 2016	1 / 🗓

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat	Page	52
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date			2016

4.8	Test that input some letters of surname is exist in the	surname = "kan"	System displays patient's information. Result:					
	database.		kan					Q Search
						Showing 1-1 of 1 item.		
			No. Personal ID	Name	Surname	Responsible	Create Date	Options
			1 1-6001-00485-72-6	Natthakan	Kaeokanpai	Dr.Somphong	Jul 31, 2016	1 / 1
4.9	Test that input surname is not exist in the database.	surname = "Madee"	System displays message "No results found" Result:					
			Madee					Q Search
			No. Personal ID	Name	Surname	Responsible	Create Date	Options
			No results found.					

Document Name	Smart Prescription	Owner	Natthakan	Page	53
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

## System Test Case (STC-06): Doctors can view patient's profiles on the web application.

<b>Test Description</b>	This test case is a system testing for URS-05. Doctors can view patient's						
	profiles on the web application.						
Prerequisite	Doctor has create patient's profile successful. The system shall display a						
	doctor home page.						
Prepared Data	The system prepare the information from the database which includes						
	personal id, name, surname, prescription, responsible, username, password,						
	create date time and update date time.						
Test Steps	1. Doctor selects "Manage Patient" button on patient options menu box.						
	Patient Options    + Create Patients  1 Manage Patients  2. Doctor selects "View" button ( ) in the options column of table.						

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	54
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expected Result	
5.1	TD + 1 + 1 + 1' 1 (3.7' )	Click on ( ) 'View' button	System displays the patient's profile, which includes personal ID, na prescription, responsible, username, password, create date and updat patient's profiles, update button and delete button also.  Result:    Smart Prescription   Home   Patients / Phithiwat	
			Phithiwat	
			Personal ID 1-7599-00241-04-7	
			Name Phithiwat	
			Surname Sitthitun	
			Prescription Vitamin C 500 ml., Albendazole 250 ml.	
			Responsible Dr.Somphong	
			<b>Username</b> phithi	
			Password 79503	
			Create Date         Jul 30, 2016 5:46:23 AM	
			Update Time Jul 31, 2016 1:48:45 AM	
			✓ Up	date Delete
			© Smart Prescription Application 2016	<b>&gt;</b>

Document Name	Smart Prescription	Owner	Natthakan	Page	55
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date	_		2016

### System Test Case (STC-07): Doctors can view a list of patient's profiles on the web application.

<b>Test Description</b>	This test case is a system testing for URS-06. Doctors can view a list of				
	patient's profiles on the web application.				
Prerequisite	Doctor must login and has create patient's profile successful. The system				
	shall display a doctor home page.				
Prepared Data	The system prepare the patient's profiles.				
Test Steps	1. Doctor selects "Manage Patient" button on patient options menu box.				
	Patient Options &				
	+ Create Patients  1 Manage Patients				

Document Name	Smart Prescription	Owner	Natthakan	Page	56
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

ID	Description	Input	Expected	Result						
6.1	Test that doctor click 'Manage Patients' in		System displays the lists of patient's profile on the management page  Result:							
	the patient options menu box to view the			Prescription				Н	ome Logout (jazz)	
	list of patient's profile.			ients						
			<b>+</b> Cr	eate Patient	or Surnama				Q Search	
			Searc	ii by Personal ID, Name	e, or Surname				Showing 1-4 of 4 items.	
			No.	Personal ID	Name	Surname	Responsible	Create Date	Options	
			1	1-6001-00485-72-6	Natthakan	Kaeokanpai	Dr.Somphong	Jul 31, 2016	1 / m	
				2	1-7199-00241-04-7	Somkiat	Warahala	Dr.Somphong	Jul 30, 2016	1 / 前
			3	1-7599-00241-04-7	Phithiwat	Sitthitun	Dr.Somphong	Jul 30, 2016	1 / m	
			4	1-7699-00241-04-7	Dangdee	Rakna	Dr.Jazz	Jul 31, 2016	1 / 🛍	

I	Document Name	Smart Prescription	Owner	Natthakan	Page	57
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
I	Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
			Date	_		2016

#### System Test Case (STC-08): Administrators can view an admin home page on the web application.

<b>Test Description</b>	This test case is a system testing for URS-08. Administrators can view a
	doctor home page on the web application.
Prerequisite	Administator must login.
<b>Prepared Data</b> The system prepare the information from database which inclu	
	name, surname and username.
Test Steps	1. Administrator selects to "Home" on menu bar.

ID	Description	Input	Expected Result				
1.1	Test that admin login to the web application successful.	-	The system shall display the doctor home page which includes information of current admin, user options menu box.  Result:				
			Smart Prescription  Home Logout (admin)  Position  Position  Name  Steve  Sumame  Rogers  Username  Smart Prescription Application 2016				

Document Name	Smart Prescription	Owner	Natthakan	Page	58
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date	-		2016

# System Test Case (STC-09): Administrators can add user's profiles on the web application by inputting name, surname, username, password, confirm-password and position.

Test	This test case is a system testing for URS-09. Administrators can add user's					
Description	profiles on the web application.					
Prerequisite	Administrators must login. The system shall display an admin home page.					
Prepared Data	The system prepare the create form which includes name, surname, username,					
	password, confirm-password and position.					
Test Steps	1. Administrator selects "Create User" in options menu box.					
	Options					
	♣ Create Users  ♣ Manage Users					
	<ul><li>2. Input information into the create form for create the user.</li><li>3. Administrator clicks on "Create" button.</li></ul>					

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	59
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expected Result				
7.1	Test that admin input name and surname in English language and input username, password, and password2. Selects position.	name = "Dr.Tony", surname = "Stark" username = "tony", password = "tony", password2 = "tony" role = 2	System saves the user's information to the database and also display patient's profile.  Result:  Smart Prescription  Home Logout  Home / Manage Users / Dr.Tony  Dr.Tony  ID				
7.2	Test that admin do not input name.		System displays error message "Name cannot be blank".  Result:  Name  Name cannot be blank.	7			

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	60
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

7.3	Test that admin do not input surname.	_	System displays error message "Surname cannot be blank. Result:		
			Surname		
				Surname cannot be blank.	
7.4	Test that admin do not input username.	_	System dis Result :	plays error message "Username cannot be blank".	
			Username		
				Username cannot be blank.	
7.5	Test that admin inputs username that exist in database.	username = "Test"	System disp Result :	plays error message "Username has already been taken. Please change."	
			Username	test	
				Username has already been taken. Please change.	
7.6	Test that admin inputs name is not English letters.	name = "โทนี่"	System disp Result :	plays error message "Name is invalid	
			Name	โทนี่	
			1	Name is invalid.	

Document Name	Smart Prescription	Owner	Natthakan	Page	61
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

7.7	Test that admin inputs surname is not English letters.	surname = "123"	System displays e Result :	error message "Surname is invalid".
			Surname 12	
			Surr	name is invalid.
7.8	Test that admin do not input password.	_	System displays e Result:	error message "Password cannot be blank".
			Password	
				sword cannot be blank.
7.9	Test that admin do not input confirm-password.	_	System displays e Result:	error message "Confirm-Password cannot be blank".
			Confirm-Password	
				Confirm-Password cannot be blank.
7.10	Test that admin inputs password or confirm password are not match.	password = "test" confirm-password = "test1"	System displays of try again." Result:	error message "Password and Confirm-Password do not Match, Please
	match.			
			Password	
			Confirm-Password	
				Password and Confirm-Password do not Match, Please try again.

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	62
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

7.11	Test that admin do not select	1	System displays error message "Position cannot be blank.".		
	position.		Result:		
			Position		

١	Document Name	Smart Prescription	Owner	Natthakan	Page	63
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
ĺ	Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
Į			Date	-		2016

# System Test Case (STC-10): Administrators can update user's profiles on the web application by inputting name, surname, username, password, confirm-password and position.

<b>Test Description</b>	This test case is a system testing for URS-10. Administrators can update user's profiles on the web application.					
Prerequisite	Administrator has create user successfully before. The system shall display an admin home page.					
Prepared Data	The system prepare the old information and update form which includes name, surname, username, password, confirm-password and position.					
Test Steps	1. Admin selects "Manage Users" button on options menu box.  Options  + Create Users  Manage Users  Manage Users  1. Manage Users  2. Admin selects "Update" button ( ) in the options column of table. 3. Input new information into update form for update user information. 4. Admin selects "Update" button.					

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat	Page	64
Document Type	Test Plan	Release	Sitthitun July 30 <sup>th</sup> , 2016	Print Date	July 30th,
		Date			2016

ID	Description	Input	Expected Result	
8.1	Test that admin the new information to update the defult information. Select position and	System saves the user's information to the database patient's profile. Result:	and also display the	
	input name and surname in English language and input username, password, and	password = "1234", password2 = "1234" role = 3	Smart Prescription  Home / Manage Users / Stark	Home Logout (admin)
	password2. Selects group.		Stark	
			ID	34
			Name -	Stark
			Surname Username	Tony
			Password	1234
			Confirm-Password	1234
			Position	FDA
			© Smart Prescription Application 2016	✓ Update
8.2	Test that admin do not input		System displays error message "Name cannot be blank"	37
0.2	name.		Result:	•
			Name	
			Name cannot be blank.	

Document Name	Smart Prescription	Owner	Natthakan	Page	65
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date	_		2016

8.3	Test that admin do not input surname.	_	System displays error message "Surname cannot be blank. Result:		
			Surname		
				Surname cannot be blank.	
8.4	Test that admin do not input username.		System disp Result :	plays error message "Username cannot be blank".	
			Username		
				Username cannot be blank.	
8.5	Test that admin inputs username that exist in database.	username = "Test"	System disp Result :	plays error message "Username has already been taken. Please change."	
			Username	test	
				Username has already been taken. Please change.	
8.6	Test that admin inputs name is not English letters.	name = "โทนี่"	System dis Result :	plays error message "Name is invalid	
			Name	โทนี่	
			i	Name is invalid.	

Document Name	Smart Prescription	Owner	Natthakan	Page	66
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date	_		2016

8.7	Test that admin inputs surname is not English letters.	surname = "123"	System display Result :	vs error message "Surname is invalid".
			Surname	123
				Surname is invalid.
8.8	Test that admin do not input password.	_	System display Result :	vs error message "Password cannot be blank".
			Password	
				Password cannot be blank.
8.9	Test that admin do not input confirm-password.	_	System display Result:	vs error message "Confirm-Password cannot be blank".
			Confirm-Passwo	rd
				Confirm-Password cannot be blank.
8.10	Test that admin inputs password or confirm password are not match.	password = "test" confirm-password = "test1"	System display try again." Result:	vs error message "Password and Confirm-Password do not Match, Please
			Passwo	ord
			Confirm-Passwo	ord
				Password and Confirm-Password do not Match, Please try again.

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat	Page	67
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

8.11	Test that admin do not select position.	_	System displays error message "Position cannot be blank.".  Result:			
			Position			

Document Name	Smart Prescription	Owner	Natthakan	Page	68
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date	-		2016

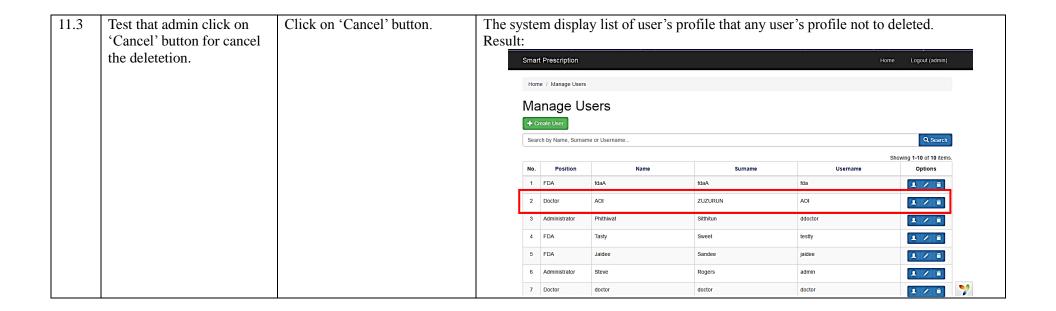
## System Test Case (STC-11): Administrators can delete user's profiles on the web application.

<b>Test Description</b>	This test case is a system testing for URS-11. Administrators can delete						
	user's profiles on the web application.						
Prerequisite	Admin has create user account successfully before. The system shall						
	display an admin home page.						
Prepared Data	The system prepare the user's profiles.						
Test Steps	1. Admin selects "Manage User" button on operation menu of Manage						
	User page.						
	Options						
	+ Create Users						
	▲ Manage Users						
	2. Admin selects "Delete" button ( ) in the options column of table.						
	3. Admin select 'OK' button on the confirm box.						

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	69
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expecto	ed l	Result					
11.1	Test that admin clicks on 'Delete' button for delete user from the database.	Click on 'Delete' button.	The system interface to show the confirm box "Are you sure you want to delete t item?" and delete from database after click button 'OK'.  Result:							e this
					ocalhos are you su	st says: ure you want to c	lelete this item?	ОК	Cancel	×
11.0			The system display list of user's profile without profile that dele Result:  Smart Prescription  Home / Manage Users							
11.2	Test that admin click on 'OK' button for confirm the deleteion.	Click on 'Ok' button.	Result:	Smart Home	Prescription		rofile without pro	ofile that deleted.		-
11.2	'OK' button for confirm	Click on 'Ok' button.	Result:	Home Mai	Prescription  Manage Users  nage Users  attention	sers	rofile without pro		ne Logout (admin)	-
11.2	'OK' button for confirm	Click on 'Ok' button.	Result:	Home Mai	Prescription  Manage Users  nage Users	sers	rofile without pro			•
11.2	'OK' button for confirm	Click on 'Ok' button.	Result:	Home Mai + Cre Search	Prescription  A Manage Users  Property Manage Users  Property Manage Users  Position	SETS e or Username	Surname	Hon Usemame	ne Logoul (admin)  Q Search  Showing 1-9 of 9 items.  Options	-
11.2	'OK' button for confirm	Click on 'Ok' button.	Result:	Home  Mai  + Cre  Search	Prescription  A Manage Users  Nage Users	SOPS  e or Username  Name  tdaA	Surname fdaA	Hon Username Ida	Q Search Showing 1-9 of 9 items Options	-
11.2	'OK' button for confirm	Click on 'Ok' button.	Result:	Home  Mai  + cre  Search  No.  1	Prescription  A Manage Users  Prescription  Prescription  Position  Position  Position  Administrator	SOFS e or Username  Name IdaA Phithiwat	Surname fdaA Sitthitun	Username fda ddoctor	Q Search Showing 1-9 of 9 items. Options	-
11.2	'OK' button for confirm	Click on 'Ok' button.	Result:	Home Mai  + Cre Search No. 1 2 3	Prescription  A Manage Users  Page User  In by Name, Surnam  Position  FDA  Administrator	SETS e or Username  Name IdaA Phithiwat Tasty	Surname IdaA Sithtiun Sweet	Username fda ddoctor testty	Q Sourch Showing 1-9 of 9 items. Options	
11.2	'OK' button for confirm	Click on 'Ok' button.	Result:	Home  Mai  + Cre  Search  No.  1  2  3  4	Prescription  A Manage Users  Page User  In by Name, Surnam  Position  FDA  Administrator	SOFS e or Username  Name IdaA Phithiwat	Surname fdaA Sitthitun	Username fda ddoctor	Q Sourch Showing 1-9 of 9 items. Options	
11.2	'OK' button for confirm	Click on 'Ok' button.	Result:	Smart Home Mail + Cree Search No. 1 2 3 4 5	Prescription  A Manage Users  Position  Position  FDA  Administrator	Name fdaA Phithiwat Tasty Jaidee	Surname fdaA Sitthitun Sweet Sandee	Username  fda  ddoctor  testty  jaidee	Q Sourch Showing 1-9 of 9 items. Options	

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	70
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date			2016



Document Name	Smart Prescription	Owner	Natthakan	Page	71
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

### System Test Case (STC-12): Administrations can search user's profiles on the web application by using name, surname or username.

Test Description	This test case is a system testing for URS-12. Administrations can search user's profiles on the web application by using name, surname or username.						
Prerequisite	Admin has create a user successfully. The system shall display an admin home page.						
Prepared Data	The system prepare the information from the database to searching about name, surname and username.						
Test Steps	1. Admin selects "Manage User" button on operation menu of Manage User page.						
	Options  + Create Users  Manage Users  2. Input the data about name, surname or username for searching. 3. Admin selects "Seach" button.						

Docu	ment Name	Smart Prescription	Owner	Natthakan	Page	72
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
Docu	ment Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
			Date	-		2016

ID	Description	Input	Expected	d Resu	ılt					
4.1	Test that input name is exist in the database.	name = "Steve"	System displays user's information. Result:							
			Steve					Q Search		
								Showing 1-1 of 1 item.		
			No. Pos	osition	Name	Surname	Username	Options		
			1 Adminis	strator	Steve	Rogers	admin	1 / 🗊		
4.2	Test that input some letters of name are exist in the database.	name = "teve"	Result:	displays	s user's informati	On.	Usemame	Q Search Showing 1-1 of 1 item. Options		
			1 Administ	strator	Steve	Rogers	admin			
4.3	Test that input name is not exist in the database.	name = "Somsri"	Result:	osition	s message "No re	sults found."	Username	Q search Options		

Document Name	Smart Prescription	Owner	Natthakan	Page	73
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

4.4	Test that input surname is exist in the database.	surname = "Hamonica"	a" System displays user's information. Result:								
			Hamonica				Q Search				
							Showing 1-1 of 1 item.				
			No. Position	Name	Surname	Username	Options				
			1 Doctor	Dr.Jazz	Hamonica	jazz	1 / 1				
4.5	Test that input some letters of surname is exist in the	surname = "Hamo"	System displa Result:	ays patient's informa	ntion.						
	database.		Hamo				Q Search				
							Showing 1-1 of 1 item.				
			No. Position	Name	Surname	Username	Options				
			1 Doctor	Dr.Jazz	Hamonica	jazz	1 / 🛍				
4.6	Test that input surname is not exist in the database.	surname = "Metang"	System displa Result :	ays message "No res	sults found"						
			Metang				Q Search				
			No. Position	Name	Surname	Username	Options				
			No results found.								
4.7	Test that input username is exist in the database.	username = "somphong"	System displa Result :	ays patient's informa	ation.						
			somphong				Q Search				
							Showing 1-1 of 1 item.				
			No. Position	Name	Surname	Username	Options				
			1 Doctor	Dr.Somphong	Thamdee	somphong	1 / 🛍				

I	Document Name	Smart Prescription	Owner	Natthakan	Page	74
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
ĺ	Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
			Date	_		2016

4.8	Test that input some letters of username is exist in the	username = "som"	Res	tem displa ult :	ys patient's informat	ion.		
	database.		som					Q Search
			No.	Position	Name	Surname	Username	Showing 1-1 of 1 item.  Options
			1	Doctor	Dr.Somphong	Thamdee	somphong	1 / 🛍
4.9	Test that input username is not	username = "hahaha"	Sys	tem displa	ys message "No resu	ılts found"		
	exist in the database.		-	ult:				
			haha	iha				Q Search
			No.	Position	Name	Surname	Username	Options
			No re	esults found.				

I	Document Name	Smart Prescription	Owner	Natthakan	Page	75
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
I	Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
			Date	_		2016

### System Test Case (STC-13): Administrations can view user's profiles on the web application.

<b>Test Description</b>	This test case is a system testing for URS-13. Administrations can view
	user's profiles on the web application.
Prerequisite	Admin has create user successful. The system shall display an admin home
	page.
Prepared Data	The system prepare the information from the database which includes
	name, surname, username, password and position.
Test Steps	1. Admin selects "Manage User" button on options menu box.
	1
	2. Admin selects "View" button ( ) in the options column of table.

ID	Description	Input	Expected Result	
5.1	Test that admin click on 'View' button to view the user.		Expected Result  System displays the user's information, whi username and password of user, update butt Result:  Smart Prescription  Home / Manage Users / Dr.Jazz  Dr.Jazz  ID  Name Sumame Username Password Postition	
				✓ Update   ☐ Detete

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	76
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

# System Test Case (STC-14): Administrations can view a list of user's profiles on the web application.

<b>Test Description</b>	This test case is a system testing for URS-14. Administrations can view a
	list of user's profiles on the web application.
Prerequisite	Admin must login and has create user successful. The system shall display
	an admin home page.
Prepared Data	The system prepare the user's profiles.
Test Steps	1. Admin selects to "Manage Users" in options menu box.
	Options
	<b>♣</b> Create Users
	▲ Manage Users

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	77
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expected Resul	lt					
14.1	Test that admin click	Click 'Manage Users' on menu bar.	System displays	the li	sts of user on	the manage pa	age.		
	'Manage Users' in the		Result:			<i>C</i> 1	C		
	options menu box to								
	view the list of user.		Sn	nart Prescription	n		Hon	ne Logout (admin)	
			1	iome / Manage U	sers				
			N	lanage	Users				
				Create User					
			5	earch by Name, Su	imame or Username			Q Search	
								Showing 1-10 of 10 items.	
				o. Position	Name fdaA	Surname	Username	Options	
								1 / 1	
				2 Doctor	AOI	ZUZURUN	AOI	1 / 1	
				3 Administrator	Phithiwat	Sitthitun	ddoctor	1 / 1	
				FDA	Tasty	Sweet	testty	1 / 1	
				5 FDA	Jaidee	Sandee	jaidee	1 / 8	
				6 Administrator	Steve	Rogers	admin	1 / 8	
1				7 Doctor	doctor	doctor	doctor	1 / 8	<b>y</b> >

Document Name	Smart Prescription	Owner	Natthakan	Page	78
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date	_		2016

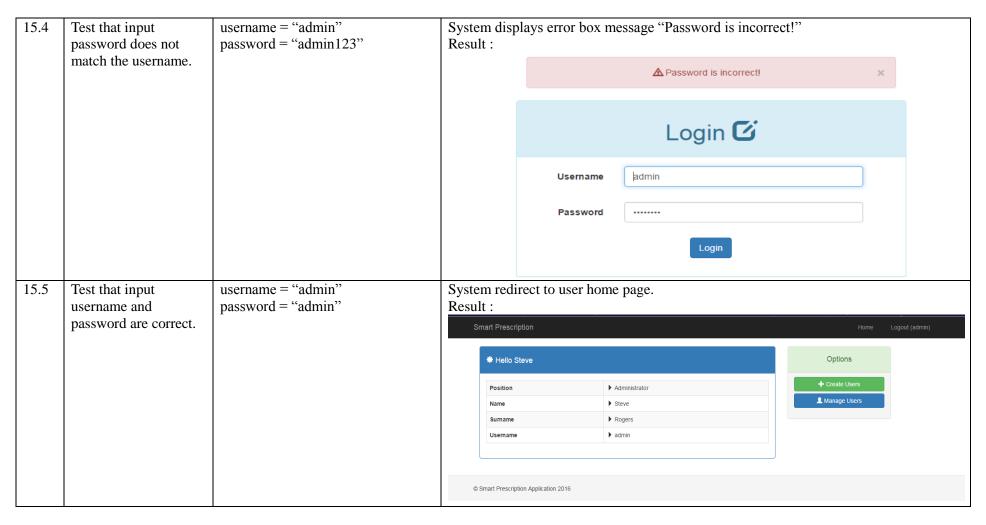
## System Test Case (STC-15): Doctors, Administrations, and FDAs can login to the web application.

<b>Test Description</b>	This test case is a system testing for URS-15. Doctors, Administrations,							
	nd FDAs can login to the web application.							
Prerequisite	Doctors, Administrations, and FDAs must have the username and							
	password.							
Test Steps	1. Doctors, Administrations, and FDAs select to "Login" on menu bar.							
	2. Doctors, Administrations, and FDAs select to "Login" on login form.							
	Smart Prescription Home Login							
	Login <b>©</b>							
	Username							
	Password							
	Login							
	Smart Prescription  Login   Usemanne							

Document Name	Smart Prescription	Owner	Natthakan	Page	79
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date	-		2016

ID	Description	Input	<b>Expected Result</b>	
15.1	Test that do not input username.	_	System displays err Result :	or message "Username cannot be blank."
			Username	
				Username cannot be blank.
15.2	Test that do not input password.	_	System displays err	or message "Password cannot be blank."  Result:
			Password	
				Password cannot be blank.
15.3	Test that input username does not	username = "test123" password = "admin"	System displays err Result :	or box message "Username is incorrect!"
	exist in the database.			⚠ Username is incorrect!
				Login <b>©</b>
				Username test123
				Password
				Login

Document Name	Smart Prescription	Owner	Natthakan	Page	80
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016



Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai,	Page	81
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date	-		2016

### System Test Case (STC-16): Doctors, Administrations, and FDAs can logout from the web application.

<b>Test Description</b>	This test case is a system testing for URS-16. Doctors, Administrations,
	and FDAs can logout from the web application.
Prerequisite	Doctors, Administrations, and FDAs must login.
Test Steps	1. Doctors, Administrations, and FDAs selects to "Logout" on menu bar.

ID	Description	Input	Expected Result
6.1	Test that click "Logout" on	Click "Logout" on menu bar.	System redirect user to index web page.
	menu bar.		Result:
			Smart Prescription Home Login
			Welcome!
			Smart Prescription Application
			© Smart Prescription Application 2016
			7

Document Name	Smart Prescription	Owner	Natthakan	Page	82
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date			2016

# System Test Case (STC-17): Doctors can create allergy report on the web application by inputting personal id, name, surname, and allergy drug.

<b>Test Description</b>	This test case is a system testing for URS-22. Doctors can create allergy					
	eport on the web application.					
Prerequisite	Doctor must login. The system shall display a doctor home page.					
Prepared Data	The system prepare the create form which includes personal id, name,					
	surname, and allergy drug.					
Test Steps	1. Doctor selects to "Create Allergy Report" on allergy options menu box.					
	Allergy Options  + Create Allergy Reports  Manage Allergy Reports					
	2. Input information into the create form for create the allergy report.					
	3. Doctor clicks on "Create" button.					

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	83
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expected Res	ılt		
17.1	Test that doctor inputs personal id is number 13 digits. Input name, and surname are English letters and input allergy drug.	digits. Input name, are English letters ergy drug.  "1759900241047", name = "Phithiwat", surname = "Sitthitun", allergy_drug =			e database and also display the allergy r	report.
		"Pyramidone"		Phithiwat		
				Allergy ID	8	
				Personal ID  Name	1-7599-00241-04-7 Phithiwat	
				Surname	Sitthitun	
				Allergy Drug	Pyramidone	
				Reporter	Dr.Jazz	
				Create Date	Jul 30, 2016 6:15:11 AM	
				Update Time	Jul 31, 2016 6:15:02 AM	
17.2	Test that doctor inputs personal id that already exist.	personal_id = "1600100485726"	System display Result :	1-6001-00485-72-6	nal ID has already been exist. Please char	nge.".
				Personal ID has already b		
17.3	Test that doctor inputs personal id is incorrect.	personal_id = "1234567890987"	System display Result:	s error message "Pers	onal ID is Invalid".	
			Personal ID	1-2345-67890-98-7		
				Personal ID is Invalid.		

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	84
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

17.4	Test that doctor inputs personal id is number but less than 13 digits.	personal_id = "16100185"	System displays error message "Personal ID is Invalid". Result:
			Personal ID 1-6100-185
			Personal ID is Invalid.
17.5	Test that doctor do not input personal id.	_	System displays error message "Personal ID cannot be blank".  Result:
			Personal ID Personal ID cannot be blank.
17.6	Test that doctor do not input name.	_	System displays error message "Name cannot be blank". Result:
			Name  Name cannot be blank.
17.7	Test that doctor inputs name is not English letters.	name = "พิธิวัต"	System displays error message "Name is invalid Result:
			Name พิธิวัต
17.8	Test that doctor do not inputs surname.	_	Name is invalid.  System displays error message "Surname cannot be blank".  Result:
			Surname Currama canaat ba blank
			Surname cannot be blank.

Document Nan	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	85
Document Typ	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

17.9	Test that doctor inputs surname is not English letters.	surname = "Sitthitun123"	System displays error message "Surname is invalid". Result:		
			Surname	Sitthitun123	
			\$	Surname is invalid.	
17.10	Test that doctor do not input allergy drug.		System displa Result :	ys error message "Allergy drug cannot be blank".	
			Allergy Drug		
				Allergy Drug cannot be blank.	

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai,	Page	86
	**		Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date			2016

### System Test Case (STC-18): Doctors can update an allergy report on the web application by inputting personal id, name, surname, and allergy drug.

<b>Test Description</b>	This test case is a system testing for URS-23. Doctors can update an allergy report on the web application.			
Prerequisite	Doctor has create allergy report successfully before. The system shall display a doctor home page.			
Prepared Data	The system prepare the old information and update form which includes personal id, name, surname, and allergy drug.			
Test Steps	1. Doctor selects "Manage Allergy Reports" button on allergy option menu box.  Allergy Options  + Create Allergy Reports  2. Doctor selects "Update" button in the options column of table. 3. Input new information into update form for update allergy report. 4. Doctor selects "Update" button.			

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	87
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	<b>Expected Res</b>	ult	
18.1	Test that input the new information to update the defult information. Input personal id are number 13 digits. Input name, surname in English language and input allergy drug.	personal_id = "1759900241047", name = "Phithiwat", surname = "Sitthitun", allergy_drug = "Pyramidone", "co-trimoxazole", "aspirin"	•	he new allergy repo	B  1-7599-00241-04-7 Phithwat Stitulun Pyramidone co-trimoxazole aspirin Dr.Jazz Jul 30, 2016 6:45:11 AM Jul 31, 2016 6:42:21 AM
18.2	Test that doctor inputs personal id that already exist.	personal_id = "1600100485726"	System display Result :  Personal ID	**	

Document Name	Smart Prescription	Owner	Natthakan	Page	88
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date	_		2016

18.3	Test that doctor inputs personal id is incorrect.	personal_id = "1234567890987"	System displa Result :	ys error message "Personal ID is Invalid".
			Personal ID	1-2345-67890-98-7
				Personal ID is Invalid.
18.4	Test that doctor inputs personal id is number but less than 13	personal_id = "16100185"	System displa Result :	ys error message "Personal ID is Invalid".
	digits.		Personal ID	1-6100-185
				Personal ID is Invalid.
18.5	Test that doctor do not input personal id.	_	System displa Result :	ys error message "Personal ID cannot be blank".
			Personal ID	
				Personal ID cannot be blank.
18.6	Test that doctor do not input name.	_	System displa Result :	ys error message "Name cannot be blank".
			Name	
			N	me cannot be blank.
18.7	Test that doctor inputs name is not English letters.	name = "พิธิวัต"	System displa Result:	ys error message "Name is invalid
			Name	พิธิวัต
			N	ame is invalid.

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	89
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

18.8	Test that doctor do not inputs surname.	_	System displays error message "Surname cannot be blank". Result:
			Surname
			Surname cannot be blank.
18.9	Test that doctor inputs surname is not English letters.	surname = "Sitthitun123"	System displays error message "Surname is invalid". Result:
			Surname Sitthitun123
			Surname is invalid.
18.10	Test that doctor do not input allergy drug.	_	System displays error message "Allergy drug cannot be blank". Result:
			Allergy Drug
			Allergy Drug cannot be blank.
			Alicity Diag calliot be blank.

Document Name	Smart Prescription	Owner	Natthakan	Page	90
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date	-		2016

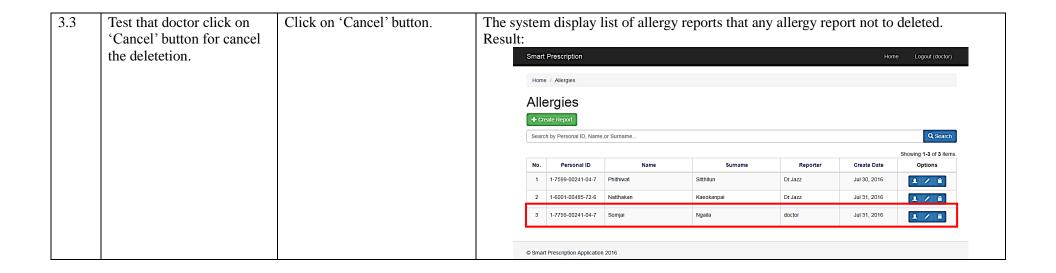
# System Test Case (STC-19): Doctors can delete an allergy report on the web application.

Test Description	This test case is a system testing for URS-24. Doctors can delete an						
	allergy report on the web application.						
Prerequisite	Doctor has create allergy report successfully before. The system shall						
	display a doctor home page.						
<b>Prepared Data</b>	The system prepare the allergy reports.						
Test Steps	1. Doctor selects "Manage Allergy Reports" button on allergy option						
	menu box.						
	Allergy Options ≣						
	♣ Create Allergy Reports						
	▲ Manage Allergy Reports						
	2. Doctor selects "Delete" button ( ) in the options column of table.						
	3. Doctor select 'OK' button on the confirm box.						

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	91
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expected Result		
19.1	Test that doctor clicks on 'Delete' button for delete allergy report from the	Click on 'Delete' button.	The system interface to show the confirm box "Are you sure you want to delete this item?" and delete from database after click button 'OK'.  Result:		
	database.		localhost says:  Are you sure you want to delete this item?		
			OK Cancel		
3.2	Test that doctor click on 'OK' button for confirm the deleteion.	Click on 'Ok' button.	The system display list of allergy reports without report that deleted.  Result:  Smart Prescription  Home Logout (doctor)  Home / Allergies  Allergies  + Create Report  Search by Personal ID, Name, or Surname		
			Showing 1-2 of 2 items.		
			No. Personal ID Name Surname Reporter Create Date Options		
					1 1-7599-00241-04-7 Phthiwat Stthitun Dr.Jazz Jul 30, 2016 1 / a 2 1-6001-00485-72-6 Natthakan Kaeokanpal Dr.Jazz Jul 31, 2016
			2 1-6001-00485-72-6 Natthakan Kaeokanpai Dr.Jazz Jul 31, 2016		
			© Smart Prescription Application 2016		

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	92
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016



Document Name	Smart Prescription	Owner	Natthakan	Page	93
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

# System Test Case (STC-20): Doctors can search allergy reports on the web application by using personal id, name or surname.

<b>Test Description</b>	This test case is a system testing for URS-25. Doctors can search allergy report on the web application by using personal id, name or surname.					
Prerequisite	Doctor has create an allergy report successfully. The system shall display a doctor home page.					
Prepared Data	The system prepare the information from the database to searching about personal id, name and surname.					
Test Steps	1. Doctor selects "Manage Allergy Reports" button on allergy options menu box.					
	Allergy Options					
	<ul><li>2. Input the data about personal ID, name, or surname for searching.</li><li>3. Doctor selects "Seach" button.</li><li>Q Search</li></ul>					

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	94
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expected Result					
20.1	Test that input personal ID is exist in the database.	personal id = "1-7599-00241-04-7"	System displays report's informations. Result:					
			1-7599-00241-04-7 Q Search					
			Showing 1-1 of 1 item.					
			No. Personal ID Name Surname Reporter Create Date Options					
			1 1-7599-00241-04-7 Phithwat Sitthitun Dr.Jazz Jul 30, 2016					
20.2	Test that input some digits of personal ID are exist in the	personal id = "1-7"	System displays report's informations. Result:					
	database.		Q Search					
			Showing 1-1 of 1 item.					
			No. Personal ID Name Surname Reporter Create Date Options					
			1 1-7599-00241-04-7 Phithiwat Sitthitun Dr.Jazz Jul 30, 2016					
20.3	Test that input personal ID is not exist in the database.	personal id = "1-2345-67890-98-7"	System displays message "No results found". Result:					
			1-2345-67890-98-7					
			No. Personal ID Name Surname Reporter Create Date Options					
			No results found.					
20.4	Test that input name is exist in	name = "Phithiwat"	System displays report's information.					
	the database.		Result:					
			Phithiwat Q. Search					
			Showing 1-1 of 1 item.					
			No. Personal ID Name Surname Reporter Create Date Options					
			1 1-7599-00241-04-7 Phithiwat Sitthitun Dr.Jazz Jul 30, 2016					

Document Name	Smart Prescription	Owner	Natthakan	Page	95
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

20.5	Test that input some letters of name are exist in the database.	name = "wat"	System displays report's information. Result:					
			wat					Q Search
								Showing 1-1 of 1 item.
			No. Personal ID	Name	Surname	Reporter	Create Date	Options
			1 1-7599-00241-04-7	Phithiwat	Sitthitun	Dr.Jazz	Jul 30, 2016	1 / 1
20.6	Test that input name is not	name = "Somchai"	System displays	message "No res	ults found."			
	exist in the database.		Result:	C				
			Somchai					Q Search
			No. Personal ID	Name	Surname	Reporter	Create Date	Options
			No results found.					
20.7	Test that input surname is exist in the database.	surname = "Kaeokanpai"	System displays Result:	report's informat	ion.			
			Kaeokanpai					Q Search
								Showing 1-1 of 1 item.
			No. Personal ID	Name	Surname	Reporter	Create Date	Options
			1 1-6001-00485-72-6	Natthakan	Kaeokanpai	Dr.Jazz	Jul 31, 2016	1 / 1
20.8	Test that input some letters of surname is exist in the	surname = "kan"	System displays report's information. Result:					
	database.		Q Search					
								Showing 1-1 of 1 item.
			No. Personal ID	Name	Surname	Reporter	Create Date	Options
			1 1-6001-00485-72-6	Natthakan	Kaeokanpai	Dr.Jazz	Jul 31, 2016	1 / 前

Document Name	Smart Prescription	Owner	Natthakan	Page	96
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date	_		2016

20.9	Test that input surname is not exist in the database.	surname = "Jaidee"	System displays message "No results found" Result:				
			Q Search				
			No. Personal ID Name Surname Reporter Create Date Options				
			No results found.				

	Document Name	Smart Prescription	Owner	Natthakan	Page	97
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
ĺ	Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
Į			Date	-		2016

# System Test Case (STC-21): Doctors can view an allergy report on the web application.

<b>Test Description</b>	This test case is a system testing for URS-26. Doctors can view an allergy							
	report on the web application.							
Prerequisite	Doctor has create allergy report successful. The system shall display a							
	doctor home page.							
Prepared Data	The system prepare the information from the database which includes							
	allergy id, personal id, name, surname, allergy drug, reporter, create date							
	time and update date time.							
Test Steps	1. Doctor selects "Manage Allergy Reports" button on allergy options							
	menu box.							
	Allergy Options 🗏							
	+ Create Allergy Reports							
	▲ Manage Allergy Reports							
	2. Doctor selects "View" button ( ) in the options column of table.							

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	98
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	<b>Expected Result</b>					
21.1	Test that doctor click on 'View' button to view the allergy report.	Click on 'View' button	System displays the allergy report, which includes allergy Id, personal Id, name surname, allergy drug, reporter, create date and update date of allergy report, up button and delete button also.  Result:					
			Smart Prescription  Home / Allergies / Philthwat	Home Logout (jazz)				
			Phithiwat					
			Allergy ID	8				
			Personal ID	1-7599-00241-04-7				
			Name	Phithiwat				
			Surname	Sitthitun				
			Allergy Drug	Pyramidone co-trimoxazole aspirin				
			Reporter	Dr.Jazz				
			Create Date	Jul 30, 2016 6:15:11 AM				
			Update Time	Jul 31, 2016 6:42:21 AM				
				✓ Update   © Delete				
			© Smart Prescription Application 2016	<b>&gt;</b>				

Document Name	Smart Prescription	Owner	Natthakan	Page	99
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date	_		2016

## System Test Case (STC-22): Doctors can view list of allergy reports on the web application.

<b>Test Description</b>	This test case is a system testing for URS-27. Doctors can view list of					
	allergy reports on the web application.					
Prerequisite	Doctor must login and has create allergy report successful. The system					
	shall display a doctor home page.					
Prepared Data	The system prepare the allergy reports.					
Test Steps	1. Doctor selects "Manage Allergy Reports" button on allergy options					
	menu box.					
	Allergy Options 🗉					
	<b>+</b> Create Allergy Reports					
	▲ Manage Allergy Reports					

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	100
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

	Description	Input	Expected	Result					
22.1	Test that doctor click 'Manage Allergy Reports' in the allergy options menu box to view the list of allergy report.	Click 'Manage Allergy Reports' on allergy options menu box.	System di Result :		or Surname  Name  Phithiwat  Natthakan	Surname Sitthitun Kaeokanpai	Reporter  Dr.Jazz  Dr.Jazz	 Q Search Showing 1-2 of 2 items Options	

Document Name	Smart Prescription	Owner	Natthakan	Page	101
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date	_		2016

### System Test Case (STC-23): FDAs can view a FDA home page on the web application.

<b>Test Description</b> This test case is a system testing for URS-28. FDAs view a FDA l			
	page on the web application.		
Prerequisite	FDA must login.		
Prepared Data	The system prepare the information from database which includes position,		
	name, surname and username.		
Test Steps	1. FDA selects to "Home" on menu bar.		

ID	Description	Input	Expected Result					
23.1	Test that FDA login to the web	-	The system shall display the FDA home page which includes information of current					
	application successful.		FDA, allergy options n					
			Result:					
			Smart Prescription		Home Logout (jaidee)			
			* Hello Jaidee		Allergy Options 🔳			
			Position	▶ FDA	III View Report Lists			
			Name	▶ Jaidee				
			Surname	▶ Sandee				
			Username	▶ jaidee				

Document Name	Smart Prescription	Owner	Natthakan	Page	102
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

# System Test Case (STC-24): FDAs can view an allergy report on the web application.

<b>Test Description</b>	This test case is a system testing for URS-29. FDAs can view an allergy					
	report on the web application.					
Prerequisite	Doctor has create allergy report successful. The system shall display a FDA					
	nome page.					
Prepared Data	The system prepare the information from the database which includes					
	allergy id, personal id, name, surname, allergy drug, reporter, create date					
	time and update date time.					
Test Steps	1. FDA selects "View List Reports" button on allergy options menu box.					
	Allergy Options 🗏					
	☐ View Report Lists					
	2. FDA selects "View" button ( ) in the options column of table.					

Document Name	Smart Prescription	Owner	Natthakan	Page	103
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date	-		2016

ID	Description	Input	Expected Result			
24.1	Test that FDA click on 'View' button to view the allergy report.	Click on 'View' button	System displays the allergy report, which includes allergy Id, personal Id, name surname, allergy drug, reporter, create date and update date of allergy report.  Result:			
				Smart Prescription  Home / Allergies / Natthakan	Home Logout (jaid	ee)
				Natthakan		
				Allergy ID	10	
				Personal ID	1-6001-00485-72-6	
				Name	Natthakan	
				Surname	Kaeokanpai	
				Allergy Drug	Vitamin C	
				Reporter	Dr.Jazz	
				Create Date	Jul 31, 2016 6:20:43 AM	
				Update Time	Jul 31, 2016 6:20:43 AM	
				© Smart Prescription Application 2016		

	Document Name	Smart Prescription	Owner	Natthakan	Page	104
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
ĺ	Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
Į			Date	-		2016

# System Test Case (STC-25): FDAs can view list of allergy reports on the web application.

<b>Test Description</b>	This test case is a system testing for URS-30. FDAs can view list of allergy				
	reports on the web application.				
Prerequisite	Doctor must login and has create allergy report successful. The system				
	shall display a FDA home page.				
Prepared Data	The system prepare the allergy reports.				
Test Steps	1. FDA selects "View Report Lists" button on allergy options menu box.				
	Allergy Options 🗏				
	■ View Report Lists				

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	105
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expect	ed Result						
25.1	Test that doctor click	Click 'View Report Lists' on allergy		System displays the lists of allergy report.						
	'View Report Lists' in the allergy options	options menu box.	Result							
	menu box to view the		Sma	art Prescription				Home	Logout (jaidee)	
	list of allergy report.		Н	me / Allergies						
			Al	lergies						
			No	. Personal ID	Name	Surname	Reporter	Create Date	Showing 1-2 of 2 items. Options	
			1	1-7599-00241-04-7	Phithiwat	Sitthitun	Dr.Jazz	Jul 30, 2016		
			2	1-6001-00485-72-6	Natthakan	Kaeokanpai	Dr.Jazz	Jul 31, 2016	1	
			© Sn	nart Prescription Applicati	on 2016				>	

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat	Page	106
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016

# System Test Case (STC-26): Patients can login to the mobile application by using username and password.

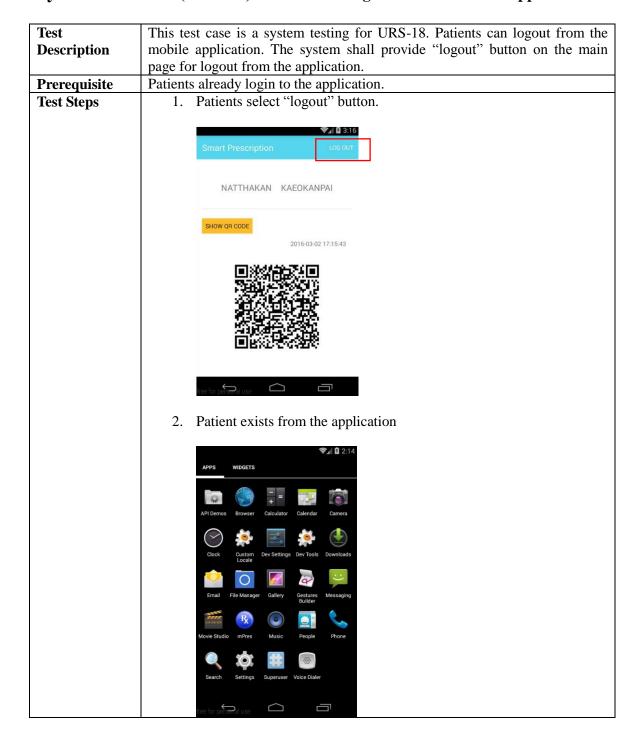
Test	This test case is a system testing for URS-17. Patients can login to the mobile				
Description	application by using username and surname. The system shall provide the UI				
	for login, to receive username and password.				
Prerequisite	Patients access to the mobile application.				
Test Steps	1. Patients input the username and password to the login form.				
	Password  LOG IN  Goal OR Code  2. Patients select 'login' button on the login form.				
	Smart Prescription Username Man Passeerd LOG IN Scar Off Code				

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	107
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expected Result
17.1	Test that user can input	Username = Test	System display error message
	the username into the	Password = " "	"Invalid Username or Password"
	username input box.		
17.2	Test that user can input	Username = " "	System display error message
	the password into the	Password = 1234	"Invalid Username or Password"
	username input box.		
17.3	Test that user can login	Username = Test	System displays the error message.
	to the application with	Password = 1222	"Invalid Username or Password".
	the wrong password	Click "Login" button	
17.4	Test that user can login	Username = Test22	System displays the error message.
	to the application with	Password = 1234	"Invalid Username or Password".
	the wrong username	Click "Login" button	
17.5	Test that user can login	Username = Test	System displays message "Login
	to the application with	Password = 1234	success" and redirect user to the main
	the correct username	Click "Login" button	page.
	and password with		
	connect the internet		

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat	Page	108
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
		Date			2016

#### System Test Case (STC-27): Patients can logout from the mobile application.

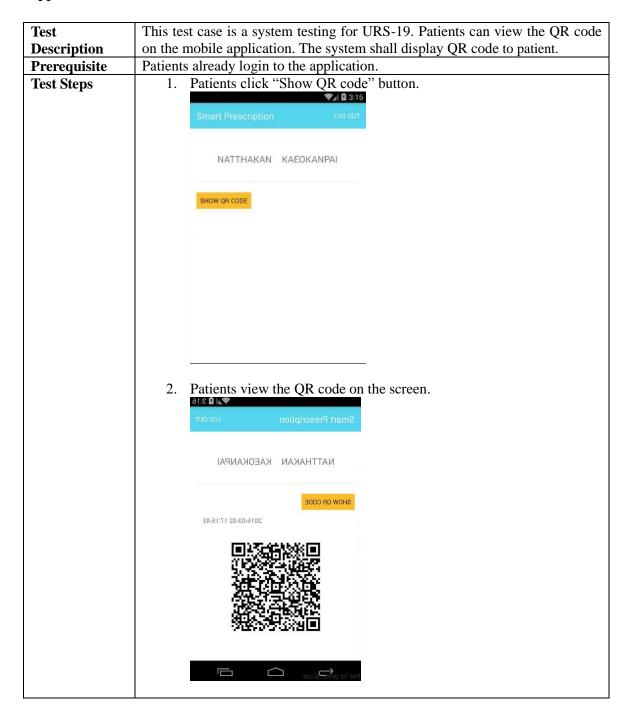


Document	Name	Smart Prescription	Owner	Natthakan	Page	109
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
Document	Туре	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
			Date	-		2016

ID	Description	Input	<b>Expected Result</b>
18.1	Test that user can click	Click "logout" button.	Patient can click "Logout" button.
	"logout" button.		
18.2	Test that user exits	Click "logout" button.	System exits from the application
	from the application		

Doc	ument Name	Smart Prescription	Owner	Natthakan	Page	110
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
Doc	ument Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
			Date	-		2016

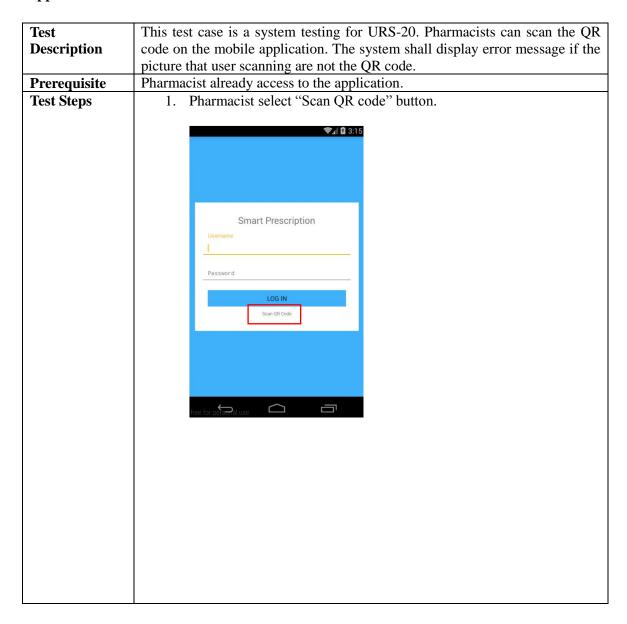
### System Test Case (STC-28): Patients can view the QR code on the mobile application.



Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	111
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expected Result		
18.1	Test for user can click "Show QR code"	Click "Show QR code" button.	Patient can click "Show QR code" button.		
	button.				
18.2	Test for user can view QR code after select "Show QR code"	Click "Show QR code" button.	Patient can view the QR code on the screen.		
	button.				

### System Test Case (STC-29): Pharmacists can scan the QR code on the mobile application.

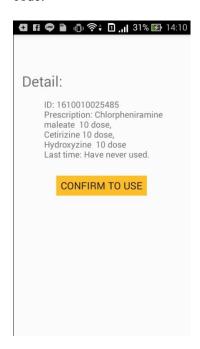


Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	112
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

2. Pharmacist scans QR code.



3. Pharmacist views the information of patient's profile after scan QR code.



Document Name	Smart Prescription	Owner	Natthakan	Page	113
	Application_Test Plan		Kaeokanpai,		
			Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date	-		2016

4. The system cannot scan the other picture if the picture is not the QR code.



5. The system can scan the other barcode but it is not information of patient's profile.



Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	114
Document Type	Test Plan	Release Date	July 30 <sup>th</sup> , 2016	Print Date	July 30 <sup>th</sup> , 2016

ID	Description	Input	Expected Result
18.1	Test for user can click	Click "Scan" button.	Pharmacist can click "Show QR
	"Scan" button.		code" button.
18.2	Test for user can use the	Scan QR code	Pharmacist can view the information
	scan QR code function		of patient's profile after scan QR
	after select "Show QR		code.
	code" button.		
18.3	Test for pharmacist	Click "Scan" button.	Pharmacist cannot view the
	cannot use the scan QR		information of patient's profile after
	code function for scan		scan QR code.
	other picture after select		
	"Scan" button.		
18.4	Test for pharmacist can	Click "Scan" button.	Pharmacist can view the other
	use the scan QR code		information of barcode after scan QR
	function for scan other		code.
	barcode after select		
	"Scan" button.		

## 

Test	This test case is a system testing for URS-21. Pharmacists can add the time of				
Description	dispensation to patient's profile on the mobile application. The system shall				
	record the current time to the patient's profile.				
Prerequisite	Pharmacist already scans QR code.				
Test Steps	1. Pharmacist select "Confirm" button.				
	2. Pharmacist views the message "successful" after select "confirm" button.				

ID	Description	Input	Expected Result
18.1	Test for user can click	Click "Confirm"	Pharmacist can click "Confirm"
	"Confirm" button.	button.	button.
18.2	Test for user can view the	Click "Confirm"	Pharmacist can view the
	message "Successful" after	button.	message"Successful" after select
	select "confirm" button.		"confirm" button.

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	115
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

### **Chapter Five | Appendix**

### Appendix A

Database for unit testing part of web application.

### User

id	2
name	Natthakan
surname	Kaeokanpai
username	natthakan
password	man
password2	man
roleId	2

id	3
name	Tony
surname	Stark
username	tony
password	tony
password2	tony
roleId	3

id	15
name	Phithiwat
surname	Sitthitun
username	phithi
password	1234
password2	1234
roleId	1

id	29
name	Steve
surname	Rogers
username	steve
password	1234
password2	1234
roleId	1

id	31
name	Dr.Hussen
surname	Hamonica
username	hussen
password	hussen
password2	hussen
roleId	2

id	32
name	Dr.Jazz
surname	Hamonica
username	jazz
password	jazz
password2	jazz
roleId	2

### Patient

personal_id	1719900241047
name	Somkiat
surname	Warahala
prescription	Paracetamol 500 ml.
create_by	31
username	somkiat
password	54139
create_at	2016-07-31 18:36:28
update_at	2016-07-31 18:36:28

personal_id	1769900241047
name	Dangdee
surname	Rakna
prescription	Vitamins 90 ml.
create_by	32
username	dang
password	67045
create_at	2016-07-30 23:55:17
update_at	2016-07-30 23:59:23

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	116
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

personal_id	1660100485726
name	Vikom
surname	Chomjai
prescription	Dextrometrophan
create_by	32
username	vikom
password	58706
create_at	2016-08-01 03:39:11
update_at	2016-08-01 03:39:11

### Allergy

allergy_id	8
personal_id	1759900241047
name	Phithiwat
surname	Sitthitun
allergy_drug	Pyramidone,
	Co-Trimoxazole, Aspirin
reporter	32
create_at	2016-07-30 04:15:11
update_at	2016-07-31 04:42:21

11
1779900241047
Somjai
Ngaila
Multivitamins.
31
2016-07-31 18:47:11
2016-07-31 18:47:11

allergy_id	10
personal_id	1600100485726
name	Natthakan
surname	Kaeokanpai
allergy_drug	Vitamin C.
reporter	32
create_at	2016-07-31 04:20:43
update_at	2016-07-31 04:20:43

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	117
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

### **Chapter Six | Reference**

- [1] Definition of Unit testing http://artofunittesting.com/definition-of-a-unit-test
- [2] Definition of System testing http://www.softwaretestingclass.com/system-testing-what-why-how/

Document Name	Smart Prescription Application_Test Plan	Owner	Natthakan Kaeokanpai, Phithiwat Sitthitun	Page	118
Document Type	Test Plan	Release Date	July 30th, 2016	Print Date	July 30 <sup>th</sup> , 2016

Docun	nent Name	Smart Prescription	Owner	Natthakan	Page	119
		Application_Test Plan		Kaeokanpai,		
				Phithiwat		
				Sitthitun		
Docun	nent Type	Test Plan	Release	July 30th, 2016	Print Date	July 30 <sup>th</sup> ,
			Date	-		2016