SMART PRESCRIPTION APPLICATION

Test Plan

By

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Document History

Boedment History							
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

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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]

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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
Perform date: July, 16 th 2016	
Duration: July, 30 th 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.
- $\boldsymbol{\cdot}$ Store all test files in the project repository.

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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

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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

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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 = "tony", password = "tony", password = "tony", password = "tony", password = "tony", roleId = 3 } }</user>

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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	Expected Result
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

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

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9	Test method by input string.	"test"	False
10	Test method by input empty string.	(67)	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

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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.	((2)	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

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

Test	Description	Input	Expected
case ID			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

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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		FF	
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>

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			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",
			password2 = "tony",
			roleId = 3
			}
) }
5	Test method by	users = "abcdefg"	Null
5	input data does	users — abcucig	11411
	not exist in the		
	user table.		

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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	Expected Result
	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>

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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

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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	F1
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

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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

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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 case ID	Description	Input	Expected 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

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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.	((2)	Flase
11	Test method by input an integer.	123	False
12	Test method by nothing input data.	Null	False

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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	
2	Test method by input user id that	personal_id =	False
	not exist in the database.	1234567890987	

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.

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

Test c	ases:		
Test case ID	Description	Input	Expected Result
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</patient>

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update at = 2016-07-31 18:36:28

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>

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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:	- ,	T (ID)
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>

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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

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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 = "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>			

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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

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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 ca		1	1	
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.	(6)	Flase	

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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 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, 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

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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

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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	Description	Input	Expected Result
case ID		F	.
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>

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4	Test method by	allergies = ""	ArrayList <allergy>{</allergy>
	input empty data.	unergies	Allergy{
	input ompty 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 04:42:21,
			}
			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,
]
			}
5	Test method by	allergies = "aaaaa"	Null
	input data does		
	not exist in the		
	allergy table.		

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

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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")}

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

Test Description	This test case is a system testing for URS-01. Doctors view a doctor home		
	page on the web application.		
Prerequisite	Doctor must login.		
Prepared Data	red 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.		

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ID	Description	Input	Expected Result			
1.1	Test that doctor login to the web application successful.	Input -	The system shall dis	ns menu box and allergy op	which includes information of current otions menu box. Home Logout (somphong) Patient Options Allergy Options Allergy Options Manage Allergy Reports Manage Allergy Reports	
			© Smart Prescription Application	2016	>	

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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.

Test Description	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.					

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ID	Description	Input	Expected Resu	ılt	
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"	_	the 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.

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1.2	Test that doctor inputs personal id is invalid.	personal_id = "1111111111111"	System displays error message "Personal ID is Invalid". Result: Personal ID 1-1111-1111-11-1
			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 1-6100-185 Personal ID is Invalid.
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.

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1.6	Test that doctor inputs name is not English letters.	name = "นัฐกานต์"	System displays error message "Name is invalid Result:
			Name ณัฐภานต์
			Name is invalid.
1.7	Test that doctor input name is number.	name = "1234"	System displays error message "Name is invalid Result:
			Name 1234
			Name is invalid.
1.8	Test that doctor do not inputs surname.	_	System displays error message "Surname cannot be blank". Result:
			Surname
			Surname cannot be blank.
1.9	Test that doctor inputs surname is not English letters.	surname = "แก้วกันภัย"	System displays error message "Surname is invalid". Result:
			Surname แก้วกันภัย
			Surname is invalid.

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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 disp Result :	plays error message "Prescription cannot be blank".		
			Prescription			
				Prescription cannot be blank.		
1.12	Test that doctor do not input username.	_	System disp Result :	plays error message "Username cannot be blank".		
			Username			
				Username cannot be blank.		
1.13	Test that doctor inputs username that exist on database.	username = "phithi"	System disp Result :	plays error message "Username has already been taken. Please change".		
			Username	phithi		
				Username has already been taken. Please change.		

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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.

Test Description	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 I Manage Patients in the options column of table. Just the information into update form for update patient's profile. Doctor selects "Update" button.					

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ID	Description	Input	Expected Res	Expected Result					
2.1	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 prescription, and username.	Personal_id = "1610010025485", name = "NewNatthakan", surname = "NewKaeokanpai", prescription = "Dextrometrophan 750 ml", username = "man"	System saves patient's pro	s the new patient file. Result:	's information to the database and also described by the second of the database and also described by the second of the database and also described by the second of the database and also described by the second of the second o				
2.3	Test that doctor inputs personal	Personal_id =			Personal ID has already been exist.".	7			
	id that already exist.	"1759900241047"	Result:						
			Personal ID	1-7599-00241-04 Personal ID has alro					
				reisonal id nas alli	eauy Deen exist.				

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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	
			ì	lame cannot be blank.
2.5	Test that doctor inputs name is not English letters.	Name = "นัฐกานต์"	System disp Result :	ays error message "Name is invalid
			Name	ณัฐกานต์
				Name is invalid.

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

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2.10	Test that doctor do not input prescription.	_	System displays error message "Prescription cannot be blank". Result:				
			Prescription				
			Prescription cannot be blank.				
2.11	Test that doctor do not input	_	System displays error message "Username cannot be blank".				
	username.		Result:				
			Username				
			Username cannot be blank.				
2.12	Test that doctor inputs username that exist on database.	Username = "phithi"	System displays error message "Username has already been taken. Pleas Result:	se change".			
			Username phithi				
			Username has already been taken. Please change.				

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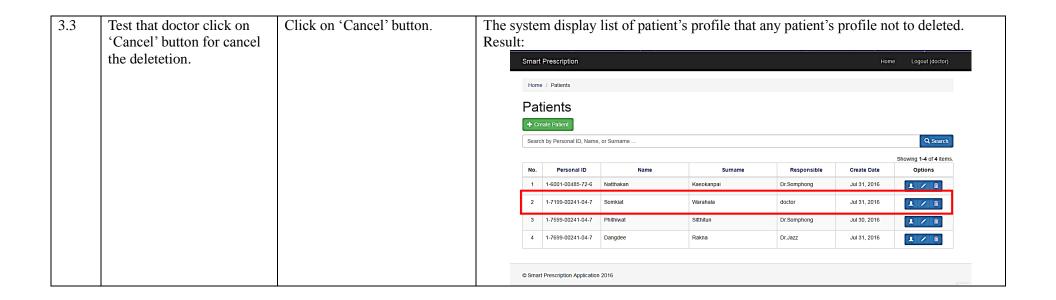
System Test Case (STC-04): Doctors can delete patient's profiles on the web application.

Test Description	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.							
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 Manage Patients Delete' button in the options column of table. Doctor select 'OK' button on the confirm box.							

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ID	Description	Input	Expecte	d 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 delete the item?" and delete from database after click button 'OK'. Result:						
	database.			localhos Are you s		o delete this item	? Ok	()	X
3.2	Test that doctor click on 'OK' button for confirm the deleteion.	Click on 'Ok' button.	Result:	rt Prescription me / Patients attients create Patient urch by Personal ID, Name		nt's profile with	out profile t	that delete	
					<u>·</u>				Showing 1-3 of 3 items.
			No		Name	Surname	Responsible	Create Date	Options
			1	1-6001-00485-72-6	Natthakan	Kaeokanpai	Dr.Somphong	Jul 31, 2016	1 / 1
			3		Phithiwat Dangdee	Sitthitun	Dr.Somphong Dr.Jazz	Jul 30, 2016 Jul 31, 2016	1 / 1
			© Sm	art Prescription Applicatio	on 2016				

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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.

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ID	Description	Input	Exp	ected Resu	lt				
4.1	Test that input personal ID is exist in the database.	personal id = "1-7599-00241-04-7"	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.			Q Search
									Showing 1-3 of 3 items.
			No.	Personal ID	Name	Surname	Responsible	Create Date	Options
			1 1-719	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

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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:	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 / 🗓

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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.					

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

Test Description	This test case is a system testing for URS-05. Doctors can view patient's						
	profiles on the web application.						
Prerequisite	Octor 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.						

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ID	Description	Input	Expected Result	
5.1 Test that doctor click on 'V button to view the patient's profile.		Click on () 'View' button	System displays the patient's profile, which includes personal ID, name, surprescription, responsible, username, password, create date and update date patient's profiles, update button and delete button also. Result: Smart Prescription Home Patients Phithiwat Patients Phithiwat	of
			Phithiwat	
			Personal ID 1-7599-00241-04-7	
			Name Phithiwat	
			Sumame Sitthitun	
			Prescription Vitamin C 500 mL, Albendazole 250 mL	
			Responsible Dr.Somphong	
			Username phithi	
			Password 79503	
			Create Date Jul 30, 2016 5:46:23 AM	
			Update Time Jul 31, 2016 1:48:45 AM	
			✓ Update	lete
			© Smart Prescription Application 2016	> →

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

Test Description	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				

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	Input	Expected	Result					
Test that doctor click	Click 'Manage Patient' on patient	System di	splays the	lists of patien	t's profile on th	e managem	ent page	
'Manage Patients' in	options menu box.	Result:						
the patient options	view the	Smar	Prescription				Ho	ome Logout (jazz)
menu box to view the list of patient's profile.		Hom	e / Patients					
		Ра	tients					
		+ CI	eate Patient					
		Sear	ch by Personal ID, Name	e, or Surname				Q Search
		No	Personal ID	Name	Surname	Responsible	Create Date	Showing 1-4 of 4 items. Options
		1	1-6001-00485-72-6	Natthakan	Kaeokanpai	Dr.Somphong	Jul 31, 2016	1 / 1
		2	1-7199-00241-04-7	Somkiat	Warahala	Dr.Somphong	Jul 30, 2016	1 / 🗓
		3	1-7599-00241-04-7	Phithiwat	Sitthitun	Dr.Somphong	Jul 30, 2016	1 / 🛍
		4	1-7699-00241-04-7	Dangdee	Rakna	Dr.Jazz	Jul 31, 2016	1 / 🗓
	'Manage Patients' in the patient options menu box to view the	'Manage Patients' in the patient options menu box to view the options menu box.	'Manage Patients' in the patient options menu box. options menu box. Result: Pa Pa No. 1	'Manage Patients' in the patient options menu box. Options menu box. Result: Home / Patients Patients	'Manage Patients' in the patient options menu box to view the list of patient's profile. Patients Patients Cearch by Personal ID, Name, or Surname No. Personal ID Name 1 1-6001-00485-72-6 Natthakan 2 1-7199-00241-04-7 Somklat 3 1-7599-00241-04-7 Phithwat	'Manage Patients' in the patient options menu box to view the list of patient's profile. Result: Smart Prescription	'Manage Patients' in the patient options menu box to view the list of patient's profile. Smart Prescription	*Manage Patients' in the patient options menu box to view the list of patient's profile. **Result:** Smart Prescription Home / Patients

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

Test Description	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.				
Prepared Data	The system prepare the information from database which includes position,				
	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) Options Position Name Steve Sumame Rogers Username Smart Prescription Application 2016					

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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 1 Manage Users					
	2. Input information into the create form for create the user.3. Administrator clicks on "Create" button.					

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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		on to the database and also display the Home Logout (admin) 34 Dr.Tony Stark tony tony tony Doctor Doctor
7.2	Test that admin do not input name.		System displays error message "Name Result : Name Name Name cannot be blank.	e cannot be blank".

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

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7.7	Test that admin inputs surname is not English letters.	surname = "123"	System displays Result:	s error message "Surname is invalid".
			Surname	123
			Su	rname is invalid.
7.8	Test that admin do not input password.	_	System displays Result:	error message "Password cannot be blank".
			Password	
			P	assword cannot be blank.
7.9	Test that admin do not input confirm-password.	_	System displays 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 try again." Result :	s error message "Password and Confirm-Password do not Match, Please
			Passwor	d
			Confirm-Passwor	d
				Password and Confirm-Password do not Match, Please try again.

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

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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.

Test Description	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						
	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.						

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

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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 dis 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 dis Result :	plays error message "Username has already been taken. Please change."	
			Username		
				Username has already been taken. Please change.	
8.6	Test that admin inputs name is not English letters.	name = "เกน่"	System displays error message "Name is invalid Result :		
			Name	โทนี	
				Name is invalid.	

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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.

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

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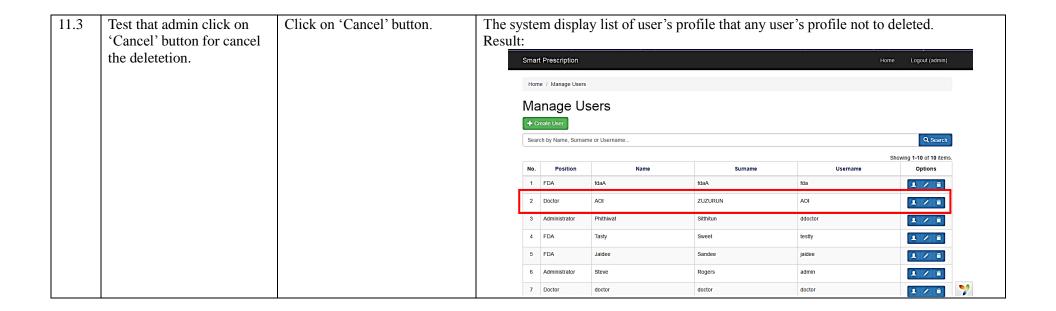
System Test Case (STC-11): Administrators can delete user's profiles on the web application.

Test Description	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						
	a						
	2. Admin selects "Delete" button () in the options column of table.						
	3. Admin select 'OK' button on the confirm box.						

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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 thi 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										
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	

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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 Amanage Users 2. Input the data about name, surname or username for searching. 3. Admin selects "Seach" button. Q Search					

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ID	Description	Input	Expected	d Resu	ılt								
4.1	Test that input name is exist in the database.				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	1 / 💼					
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					

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

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

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

Test Description	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.		System displays the user's information, wh username and password of user, update but Result: Smart Prescription Home / Manage Users / Dr.Jazz Dr.Jazz ID Name Surname Username	ton and delete button also. Home Logout (admin) 32 Dr.Jazz Hamonica
			Password	jazz jazz
			Position	Doctor
				✓ Update fi Delete

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

Test Description	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			
	♣ Create Users			
	▲ Manage Users			

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ID	Description	Input	Expected Resul	lt						
14.1	Test that admin click	Click 'Manage Users' on menu bar.	System displays	System displays the lists of user on the manage page.						
	'Manage Users' in the	C	Result:							
	options menu box to									
	view the list of user.		Sn	nart Prescripti	ion			Home	Logout (admin)	
				lome / Manage	e Users					
			N	lanage	Use	ers				
				Create User						
			\$	earch by Name,	Surname or	r Username			Q Search	
									wing 1-10 of 10 items.	
				o. Positio		Name daA	Surname fdaA	Username	Options	
				2 Doctor	AC	Ю	ZUZURUN	AOI	1 / 8	
				3 Administrate	tor Pt	Phithiwat	Sitthitun	ddoctor	1 / 1	
				FDA	Та	lasty	Sweet	testty	1 / 8	
				5 FDA	Ja	iaidee	Sandee	jaidee	1 / 1	
				5 Administrate	tor St	Steve	Rogers	admin	1 / 1	
				7 Doctor	do	loctor	doctor	doctor	1 / 1	>

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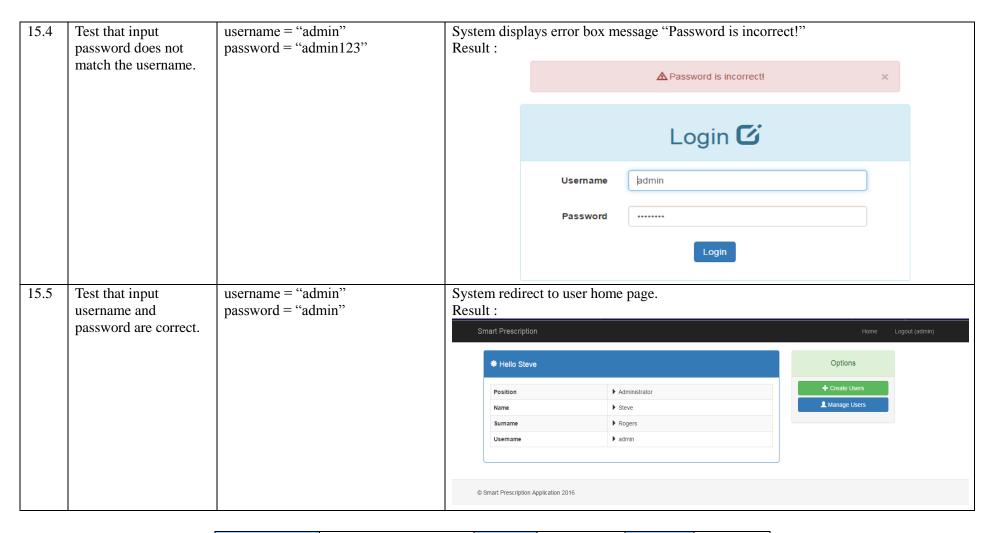
System Test Case (STC-15): Doctors, Administrations, and FDAs can login to the web application.

Test Description	This test case is a system testing for URS-15. Doctors, Administrations,
	and 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 ©
	Usemame
	Password
	Logn

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ID	Description	Input	Expected Result			
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 error box message "Username is incorrect!" Result:			
	exist in the database.			▲ Username is incorrect!		
				Login ©		
				Username test123		
				Password		
				Login		

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

Test Description	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		

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

Test Description	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.				

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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.	personal_id = "1759900241047", name = "Phithiwat", surname = "Sitthitun", allergy_drug = "Physical Letter"	59900241047", ne = "Phithiwat", name = "Sitthitun", rgy_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.		

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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 Name is invalid.
17.8	Test that doctor do not inputs surname.	_	System displays error message "Surname cannot be blank". Result:
			Surname Surname cannot be blank.

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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 displays error message "Allergy drug cannot be blank". Result:		
			Allergy Drug		
				Allergy Drug cannot be blank.	

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

Test Description	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.		

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ID	Description	Input	Expected Res	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	**	

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18.3	Test that doctor inputs personal id is incorrect.	personal_id = "1234567890987"	System displayed Result:	ays 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 displace Result:	ays 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 displace Result:	ays error message "Personal ID cannot be blank".	
			Personal ID		
				Personal ID cannot be blank.	
18.6	Test that doctor do not input name.	_	System displace Result:	ays error message "Name cannot be blank".	
			Name		
			N	ame cannot be blank.	
18.7	Test that doctor inputs name is not English letters.	name = "พิธิวัต"	System displays error message "Name is invalid Result:		
			Name	พิธิวัต	
			1	Name is invalid.	

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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.	<u> </u>	System displays error message "Allergy drug cannot be blank". Result: Allergy Drug Allergy Drug cannot be blank.

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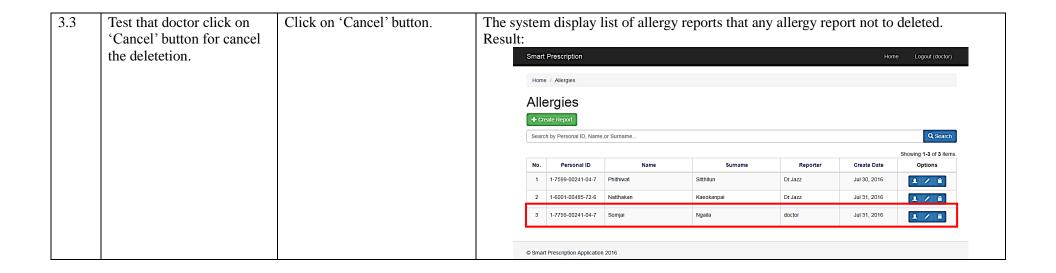
System Test Case (STC-19): Doctors can delete an allergy report on the web application.

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.						
Prepared Data	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						
	a						
	2. Doctor selects "Delete" button () in the options column of table.						
	3. Doctor select 'OK' button on the confirm box.						

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ID	Description	Input	Expected Result
19.1	Test that doctor clicks on 'Delete' button for delete allergy report from the database.	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: 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.		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 Phithwat Sitthitun Dr.Jazz Jul 30, 2016 Image: Phithwat Dr.Jazz Jul 31, 2016 Image: Phithwat Dr.Jazz Jul 31, 2016 Image: Phithwat Dr.Jazz Jul 31, 2016 Image: Phithwat Dr.Jazz D
			Smart Prescription Application 2016

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

Test Description	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 ≣					
	Create Allergy Reports Manage Allergy Reports					
	2. Input the data about personal ID, name, or surname for searching.3. Doctor selects "Seach" button.Q Search					

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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 Phithiwat 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:
			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

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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 Result:	report's informat	ion.			
	database.		kan					Q Search
			Showing 1-1 of 1 ite					
			No. Personal ID	Name	Surname	Reporter	Create Date	Options
			1 1-6001-00485-72-6	Natthakan	Kaeokanpai	Dr.Jazz	Jul 31, 2016	1 / 前

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

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

Test Description	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.						
	Allerma Continue (Continue Continue Con						
	Allergy Options 🗏						
	♣ Create Allergy Reports						
	▲ Manage Allergy Reports						
	** Manage Allergy Reports						
	2. Doctor selects "View" button () in the options column of table.						

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ID	Description	Input	Expected Result				
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			
			© Smart Prescription Application 2016	>			

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

Test Description	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 ≣						
	+ Create Allergy Reports						
	▲ Manage Allergy Reports						

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ID	Description	Input	Expected	Result					
ID 22.1	Description Test that doctor click 'Manage Allergy Reports' in the allergy options menu box to view the list of allergy report.	Input Click 'Manage Allergy Reports' on allergy options menu box.	System di Result : Smart Hom Alle • cr		.or Surname Name Phithiwat Nathakan	Surname Sitthitun Kaeokanpal	Reporter Dr.Jazz Dr.Jazz	Options Logout (jazz) Q. Search Showing 1-2 of 2 items Options	

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

Test Description This test case is a system testing for URS-28. FDAs view a FDA			
	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 application successful.	-	The system shall display the FDA home page which includes information of current FDA, allergy options menu box. Result:					
			Smart Prescription	Home Logout (Jaidee)				
			* Hello Jaidee		Allergy Options 🖺			
			Position	▶ FDA	■ Mew Report Lists			
			Name	▶ Jaidee				
			Surname	▶ Sandee				
			Username	▶ jaidee				

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

Test Description	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 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. FDA selects "View List Reports" button on allergy options menu box. Allergy Options Wew Report Lists 2. FDA selects "View" button () in the options column of table.		

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			Sitthitun		
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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:				
				nart Prescription	Home Logout (jaidee)		
			N	latthakan			
			Alle	llergy ID	10		
			Per	ersonal ID	1-6001-00485-72-6		
			Na	ame	Natthakan		
			Su	ırname	Kaeokanpai		
			Alle	llergy Drug	Vitamin C		
			Re	eporter	Dr.Jazz		
			Cre	reate Date	Jul 31, 2016 6:20:43 AM		
			Up	pdate Time	Jul 31, 2016 6:20.43 AM		
			© Sn	mart Prescription Application 2016			

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

Test Description	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				

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ID	Description	Input	Expect	Expected 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				>	

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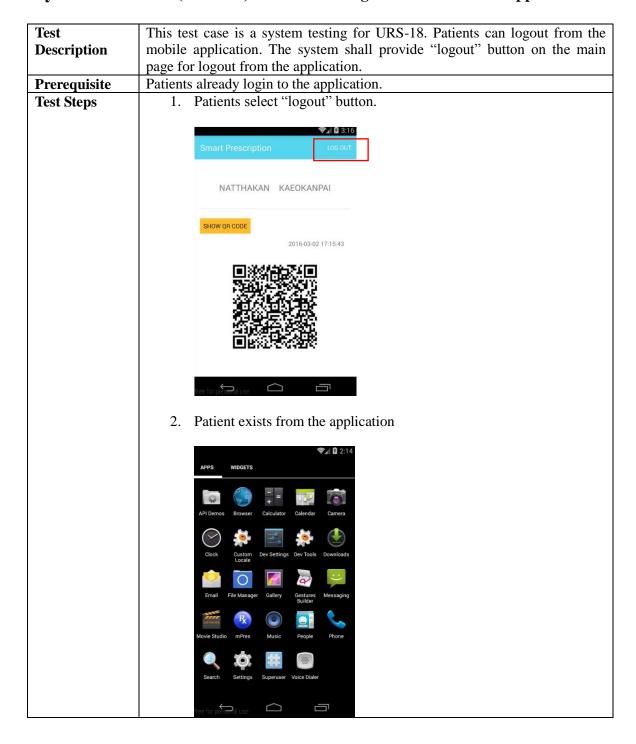
System Test Case (STC-26): Patients can login to the mobile application by using username and password.

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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		

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

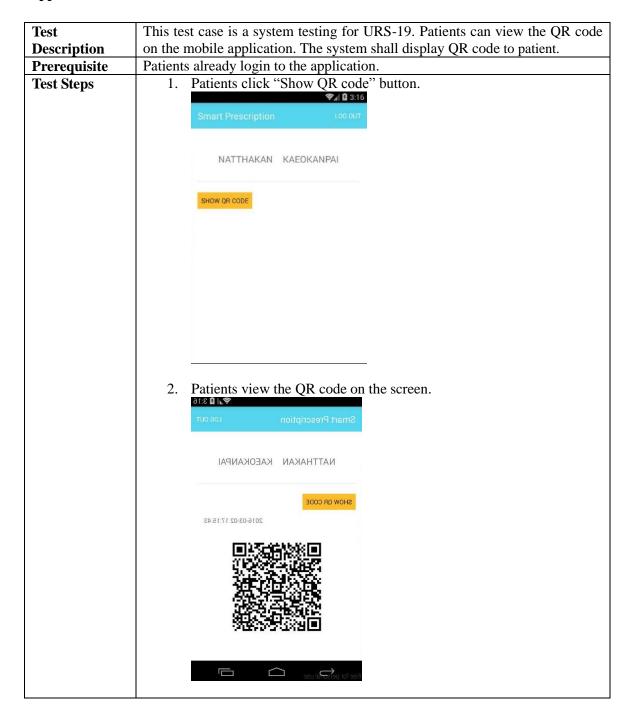


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ID	Description	Input	Expected Result
18.1	Test that user can click	Click "logout" button.	Patient can click "Logout" button.
	"logout" button.		
18.2	Test that user exits	Click "logout" button.	System exits from the application
	from the application		

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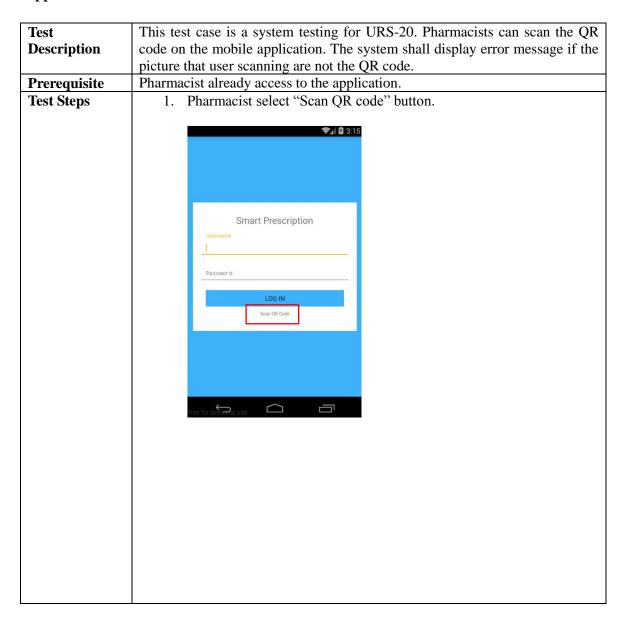
System Test Case (STC-28): Patients can view the QR code on the mobile application.



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

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

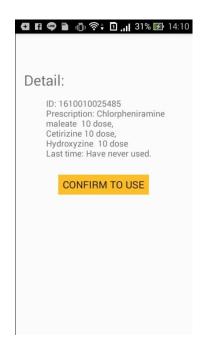


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2. Pharmacist scans QR code.



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



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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.



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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.		
	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.

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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

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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

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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/

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	APPLICATION-[Test-Plan_		Kaeokanpai,		
	V2.0]		Phithiwat		
			Sitthitun		
Document Type	Test Plan	Release	July 30th, 2016	Print Date	July 30th,
		Date			2016