**Dental Clinic Services System**

Progress 3

Test Record

By

**Kanokwan Maneerat 542115002**

**Worapun Wongkium 542115055**

Department of Software Engineering

College of Arts, Media, and Technology

Chiang Mai University

Project Adviser

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Miss Pattama Longani

**Test Record**

**Revision Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Document Name** | **Detail** | **Status** | **Date** | **Viewable** | **Reviewer& Responsible** |
| DCSS - Test Record - ver 0.1 | Add all document | Draft |  | Adviser | Kanokwan&Worapun |
| DCSS - Test Record - ver 0.2 | Edit chapter one | Draft |  | Adviser | Kanokwan&Worapun |
| DCSS - Test Record - ver 0.3 | Edit STC name | Draft |  | Adviser | Kanokwan&Worapun |
| DCSS - Test Record - ver 1.0 | Double check | Release |  | Adviser | Kanokwan&Worapun |
| DCSS - Test Record - ver 1.1 | Correct all document | Release |  | Adviser | Kanokwan&Worapun |

**Table of Contents**

Chapter One: Introduction 4

1. Introduction 4

1.1 Objectives 4

1.2 Purpose 4

1.3 Project Scope 4

1.4 User Classes and Characteristics 5

1.5 Operation Environment 6

1.5 Acronyms and Definitions Acronyms 6

1.6 Responsibility 6

Chapter Two: Unit Testing Record 7

2. Unit testing record 7

Unit Test Case 47 (UTC-47): testo\_add\_queue() 7

Unit Test Case 48 (UTC-48): testo\_reset\_queue() 7

Chapter Three: System Testing Record 9

3. System Testing Record 9

System Test Case 32(STC-32): Patient can view their QR code from mobile application 9

System Test Case 33(STC-33): Patient can view their QR code from website 9

System Test Case 34(STC-34): Officer can add patient to a queue 10

System Test Case 35(STC-35): Reset queue 10

System Test Case 00(STC-00): Patient can use the QR code to identifying him/herself 10

# Chapter One: Introduction

## 1. Introduction

### 1.1 Objectives

Dental clinic service system consists of a web application and a mobile application which supports iOS7. The system supports English language for people who are patients, officers, or dentists of dental clinics. Furthermore, it offers some features for visitors who would like to gain information about the clinic. This system will reduce officers’ work and help patients save their time. Patients can find information about the dental clinic and personal information using the mobile application as well as the web application. For the visitor who wants to have a dental treatment from the clinic, and the dentist can use the system for checking their appointment schedule. Dental clinic services system integrates the services that are provided by most dental clinics into the web application and the mobile application. By combining all the services into one, the system provides more convenience to dental clinic users as well as staff.

### 1.2 Purpose

The purpose of the Test Record of Dental clinic services system is for recording the actual results of each test case and reporting whether each test has passed or failed based on the test criteria described in the Test Plan.

## 1.3 Project Scope

The objective of this software design is to specify the requirements that the system should fulfill, which are as follows:

* Dental clinic services system provides an application that is accessible via web browser on a computer and also on a mobile phone.
* Dental clinic services system on mobile phone support iOS.
* Dental clinic services system supports English language only.
* Dental clinic services system provides features for dental clinics’ registered user whose are patients, officers and dentists.
* Dental clinic services system assists managing appointments of patients and dentists using the web application and the mobile application.
* Dental clinic services system provides a user authentication for each patient and dentist through dental clinic officers.
* Dental clinic services system provide features for generate QR code to patients from both web application and mobile application
* Dental clinic services system provide features for managing the queue of dental clinic
* Dental clinic services system assists following up treatment between dentist and patient
* Dental clinic services system provide the feature for promoting the clinic also managing those promotion and information
* Dental clinic services system help visitor and patient to predict the cost of dental care

## 1.4 User Classes and Characteristics

* The system divides users into three groups. Information and characteristics of each group are listed below.
* **Visitor**

This group of user no needs to register to the system to use the services on the website or to use their mobile phone. Visitor is able to:

* Visitor can view dental clinic information and promotion
* Visitor can select dental treatment to estimate the cost
* **Patient**

This group of user needs to be registered to the system at the dental clinic. They will get patientID and password from the clinic to use the services on the website or to use their mobile phone. Patients use their patientID to login. Patients are able to:

* Patient can view their QR code.
* Patient can view follow up question.
* Patient can answer to follow up question.
* Patient can view dental clinic information and promotion.
* Patient can select dental treatment to estimate the cost.
* **Officer**

This group of users has the highest privilege in the system. They are given access to management functions for maintaining the system. Officers are able to:

* Officer can add patient to a queue and reset queue.
* Officer can add information and promotion into the website.
* Officer can edit information and promotion from the website.
* Officer can delete information and promotion from the website.
* Officer can add dental treatment and cost into the website.
* Officer can edit dental treatment and cost from the website.
* Officer can delete dental treatment and cost from the website.
* Officer can view all dental treatment.

**Dentist**

This group of user needs to be registered to the system at the dental clinic. They will register their account at the clinic. Dentist uses their dentistID and password to login to the system to use the services. Dentists are able to:

* Dentist can view their follow up question.
* Dentist can post question to follow up their patient

## 1.5 Operation Environment

Dental clinic services system uses web service technology and iOS technology. All the characters must have the Internet connection. Patients who want to use the mobile application must use a smartphone which supports iOS7.

## 1.5 Acronyms and Definitions Acronyms

|  |  |
| --- | --- |
| **Acronyms** | **Stands for** |
| Registered User | Patient, Dentist, and Officer |
| Non-registered User | Visitor |
| PSR | Project Status Report |
| PM | Project Management |
| PMP | Project Management Plan |
| URS | User Requirement Specification |
| SRS | Software Requirement Specification |
| VSE | Very Small Entity |
| QR code | Quick Response Code |
| UC | Use Case |
| AD | Activity Diagram |
| UI | User Interface |
| UTC | Unit Test Case |
| STC | System Test Case |
| CD | Class Diagram |
| SD | Sequence Diagram |

### 1.6 Responsibility

|  |  |
| --- | --- |
| **Item** | **Responsibility** |
| **Record unit testing** | **Kanokwan & worapun** |
| **Record system test** | **Kanokwan & worapun** |

# Chapter Two: Unit Testing Record

## 2. Unit testing record

### Unit Test Case 47 (UTC-47): testo\_add\_queue()

**Test date: Tested 10/19/2014 by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to add a patient to an empty queue with pid(patientID) | true | true | Pass |
| 2 | Test to add a patient to a not empty queue with pid(patientID) | true | true | Pass |

### Unit Test Case 48 (UTC-48): testo\_reset\_queue()

**Test date: Tested 07/30/2014 by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to reset a queue to be empty | true | true | Pass |

**Unit Test Case 55 (UTC-55): testpMobile\_view\_detail()**

**Test date: Tested 10/19/2014 by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test gat patients’ own information by using patientID | Array([  [patientID] => P001 [password] => 1234 [f\_name] => Mickey [l\_name] => Mouse [age] => 80 [gender] => 1 [treatment] => Tooth braces,tooth zeplin [address] => Chaingmai Thailand [tel] => 053111111 [email]=> M.ky@hotmail.com [submit] => Submit) | Array([  [patientID] => P001 [password] => 1234 [f\_name] => Mickey [l\_name] => Mouse [age] => 80 [gender] => 1 [treatment] => Tooth braces,tooth zeplin [address] => Chaingmai Thailand [tel] => 053111111 [email]=> M.ky@hotmail.com [submit] => Submit) | Pass |

# Chapter Three: System Testing Record

## 3. System Testing Record

### System Test Case 32(STC-32): Patient can view their QR code from mobile application

**Test date:** 12/ 5/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test display QR code with patientID | System shall display the patient detail including the QR code of patientID “P001” | System shall display the patient detail including the QR code of patientID “P001” | Pass |
| 2 | Test display QR code with patientID but incorrect password | System shall not display the patient detail including the QR code of patientID “P001” | System shall not display the patient detail including the QR code of patientID “P001” | Pass |
| 3 | Test display QR code without login | System shall not display the patient QR code | System shall not display the patient QR code | Pass |

### System Test Case 33(STC-33): Patient can view their QR code from website

**Test date:** 12/ 5/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test display QR code with patientID | System shall display the patient detail including the QR code of patientID “P001” | System shall display the patient detail including the QR code of patientID “P001” | Pass |
| 2 | Test display QR code with patientID but incorrect password | System shall not display the patient detail including the QR code of patientID “P001” | System shall not display the patient detail including the QR code of patientID “P001” | Pass |
| 3 | Test display QR code without login | System shall not display the patient QR code | System shall not display the patient QR code | Pass |

### System Test Case 34(STC-34): Officer can add patient to a queue

**Test date:** 12/ 5/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test add queue by using patientID | System shall add P001 in the available time after checking appointment date and time | System shall add P001 in the available time after checking appointment date and time | Pass |
| 2 | Test display QR code with duplicate patientID | System shall not add P001 in the available time after checking appointment date and time | System shall not add P001 in the available time after checking appointment date and time | Pass |

### System Test Case 35(STC-35): Reset queue

**Test date:** 12/ 5/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test reset queue | System shall reset the list of patient queue to be empty | System shall reset the list of patient queue to be empty | Pass |

### System Test Case 00(STC-00): Patient can use the QR code to identifying him/herself

**Test date:** 12/ 5/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test display QR code with patientID and redirect to the own patient personal information page | System shall display the patient detail including the QR code of patientID “P001” and redirect to the own patient personal information page | System shall display the patient detail including the QR code of patientID “P001” and redirect to the own patient personal information page | Pass |
| 2 | Test display QR code with patientID but incorrect password and redirect to the own patient personal information page | System shall not display the patient detail including the QR code of patientID “P001”and not redirect to the own patient personal information page | System shall not display the patient detail including the QR code of patientID “P001”and not redirect to the own patient personal information page | Pass |
| 3 | Test display QR code without login | System shall not display the patient QR code | System shall not display the patient QR code | Pass |