**Dental Clinic Services System**

Progress 2

Test Record

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**Test Record**

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# 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 25 (UTC-25): testp\_getAllTreatment()

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test gat all dental treatment from database | Array([0] => stdClass Object [tid]=>1, [tName]=>Full mouth checkup, [cost]=>0])  [1] => stdClass Object [tid]=>2, [tName]=>Composite filling, [cost]=>1000])  [2] => stdClass Object [tid]=>3, [tName]=>Fluoride application, [cost]=>400])  [3] => stdClass Object [tid]=>4, [tName]=>Consultation, [cost]=>0]) | Array([0] => stdClass Object [tid]=>1, [tName]=>Full mouth checkup, [cost]=>0])  [1] => stdClass Object [tid]=>2, [tName]=>Composite filling, [cost]=>1000])  [2] => stdClass Object [tid]=>3, [tName]=>Fluoride application, [cost]=>400])  [3] => stdClass Object [tid]=>4, [tName]=>Consultation, [cost]=>0]) | Pass |

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

### Unit Test Case 26 (UTC-26): testp\_calculate()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test calculate function that use to estimate the cost of dental treatment by input one dental treatment | 0 | 0 | Pass |
| 2 | Test calculate function that use to estimate the cost of dental treatment by input two dental treatment | 1400 | 1400 | Pass |
| 3 | Test calculate function that use to estimate the cost of dental treatment by not input any dental treatment | 0 | 0 | Pass |

### Unit Test Case 27 (UTC-27): testp\_get\_information()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test gat all information and promotion from database | Array([0] => stdClass Object [infoID]=>1, [type]=>promo, [title]=>Free checkup, [details]=>Full mouth checkup for free at the clinic, [officerID]=>OF001])    [1] => stdClass Object [infoID]=>2, [type]=>information, [title]=>EF Line, [details]=>EF Line is tooth braces for children between 4-15 years old, [officerID]=>OF001])  [2] => stdClass Object infoID]=>3, [type]=>promo, [title]=>Whitening 30% off, [details]=>End of the year sale, whitening treatment is noe 30% off, [officerID]=>OF002  ]) | Array([0] => stdClass Object [infoID]=>1, [type]=>promo, [title]=>Free checkup, [details]=>Full mouth checkup for free at the clinic, [officerID]=>OF001])    [1] => stdClass Object [infoID]=>2, [type]=>information, [title]=>EF Line, [details]=>EF Line is tooth braces for children between 4-15 years old, [officerID]=>OF001])  [2] => stdClass Object infoID]=>3, [type]=>promo, [title]=>Whitening 30% off, [details]=>End of the year sale, whitening treatment is noe 30% off, [officerID]=>OF002  ]) | Pass |

### Unit Test Case 28 (UTC-28): testp\_viewFollowUpByQid()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test get follow up question by qid by input already exist qid | Array([  [qid]=>14, [patientID]=>P001, [dentistID]=>D001, [question]=>How are your composite filling? Is that fine?, [answer]=>null, [qDateTime]=>2014-10-19 11:04:35, [aDateTime]=>null]) | Array([  [qid]=>14, [patientID]=>P001, [dentistID]=>D001, [question]=>How are your composite filling? Is that fine?, [answer]=>null, [qDateTime]=>2014-10-19 11:04:35, [aDateTime]=>null]) | Pass |
| 2 | Test get follow up question by qid by input not exist qid | null | null | Pass |

### Unit Test Case 29 (UTC-29): testp\_answer\_data()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test answer a follow up question at not answered question | true | true | Pass |
| 2 | Test answer a follow up question at answered question | false | false | Pass |

### Unit Test Case 30 (UTC-30): testp\_view\_follow\_up()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test gat all follow up from database | Array([  [qid]=>13, [patientID]=>P002, [dentistID]=>D002, [question]=>Your retainer is ready in next 3 days (2014-10-15) please come an pick it up at the clinic anytime [answer]=>Ok, thank you very much, [qDateTime]=>2014-10-12 09:15:22, [aDateTime]=>2014-10-13 08:00.28)]) | Array([  [[qid]=>13, [patientID]=>P002, [dentistID]=>D002, [question]=>Your retainer is ready in next 3 days (2014-10-15) please come an pick it up at the clinic anytime [answer]=>Ok, thank you very much, [qDateTime]=>2014-10-12 09:15:22, [aDateTime]=>2014-10-13 08:00.28 )]) | Pass |

### Unit Test Case 31 (UTC-31): testp\_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 |

### Unit Test Case 32 (UTC-32): testd\_get\_p\_db()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test view all patient list | Array([0] => stdClass Object [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])  [1] => stdClass Object [patientID] => P002 [password] => 1111 [f\_name] => Minnie [l\_name] => Mouse [age] => 80 [gender] => 2 [treatment] => Tooth braces,tooth zeplin [address] => New York,USA [tel] => 0120000000 [email]=> M.Nie@hotmail.com [submit] => Submit])  [2] => stdClass Object [[patientID] => P003 [password] => 5555 [f\_name] => Goofy [l\_name] => Goof [age] => 4 [gender] => 1 [treatment] => EF line [address] => California,USA [tel] => 0230000000 [email]=> GG@yahoo.com [submit] => Submit]) | Array([0] => stdClass Object [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])  [1] => stdClass Object [patientID] => P002 [password] => 1111 [f\_name] => Minnie [l\_name] => Mouse [age] => 80 [gender] => 2 [treatment] => Tooth braces,tooth zeplin [address] => New York,USA [tel] => 0120000000 [email]=> M.Nie@hotmail.com [submit] => Submit])  [2] => stdClass Object [[patientID] => P003 [password] => 5555 [f\_name] => Goofy [l\_name] => Goof [age] => 4 [gender] => 1 [treatment] => EF line [address] => California,USA [tel] => 0230000000 [email]=> GG@yahoo.com [submit] => Submit]) | Pass |

### Unit Test Case 33 (UTC-33): testd\_follow\_up()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test get patientID for asking follow up question | P001 | P001 | Pass |

### Unit Test Case 34 (UTC-34): testd\_follow\_up\_data()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to add a follow up question and save to the database | true | true | Pass |

### Unit Test Case 35 (UTC-35): testd\_getAllReply()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to get all follow up reply as a list with dentistID that are match to the logged-in dentistID | Array([  [qid]=>13, [patientID]=>P002, [dentistID]=>D002, [question]=>Your retainer is ready in next 3 days (2014-10-15) please come an pick it up at the clinic anytime [answer]=>Ok, thank you very much, [qDateTime]=>2014-10-12 09:15:22, [aDateTime]=>2014-10-13 08:00.28]) | Array([  [qid]=>13, [patientID]=>P002, [dentistID]=>D002, [question]=>Your retainer is ready in next 3 days (2014-10-15) please come an pick it up at the clinic anytime [answer]=>Ok, thank you very much, [qDateTime]=>2014-10-12 09:15:22, [aDateTime]=>2014-10-13 08:00.28]) | Pass |
| 2 | Test to get all follow up reply as a list with dentistID that are not match to the logged-in dentistID | null | null | Pass |

### Unit Test Case 36 (UTC-36): testo\_addDentalTreatment()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to add a dental treatment with do not exist tid | true | true | Pass |
| 2 | Test to add a dental treatment with do exist tid | false | false | Pass |

### Unit Test Case 37 (UTC-37): testo\_editDentalTreatment()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to call a dental treatment with existed tid | Array([  [tid]=>5, [tName]=>Extraction, [cost]=>800]) | Array([  [tid]=>5, [tName]=>Extraction, [cost]=>800]) | Pass |
| 2 | Test to call a dental treatment with not existed tid | null | null | Pass |

### Unit Test Case 38 (UTC-38): testo\_editDentalTreatment\_data()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to save the edited dental treatment to the database | true | true | Pass |

### Unit Test Case 39 (UTC-39): testo\_deleteDentalTreatment()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to delete a dental treatment by existed tid | treu | true | Pass |
| 2 | Test to delete a dental treatment by existed tid | false | false | Pass |

### Unit Test Case 40 (UTC-40): testo\_get\_treatment()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to get all dental treatment from database | Array([0]=> stdClass object  [tid]=>1, [tName]=>Full mouth checkup,  [cost]=>0  [1]=> stdClass objects  [tid]=>2, [tName]=>Composite filling,  [cost]=>1000  [2]=> stdClass object  [tid]=>3, [tName]=>Fluoride application, [cost]=>400  [3]=> stdClass objects  [tid]=>4, [tName]=>Consultation, [cost]=>0]) | Array([0]=> stdClass object  [tid]=>1, [tName]=>Full mouth checkup,  [cost]=>0  [1]=> stdClass objects  [tid]=>2, [tName]=>Composite filling,  [cost]=>1000  [2]=> stdClass object  [tid]=>3, [tName]=>Fluoride application, [cost]=>400  [3]=> stdClass objects  [tid]=>4, [tName]=>Consultation, [cost]=>0]) | Pass |

### Unit Test Case 41 (UTC-41): testo\_add\_information()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to add a promotion to the database | true | true | Pass |
| 2 | Test to add an information to the database | true | true | Pass |

### Unit Test Case 42 (UTC-42): testo\_edit\_info()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to call a promotion from specific infoID | Array( [0]=> stdClass Object ([infoID]=>4, [type]=>promo, [title]=>Buy one get one free, [details]=>Buy one fluoride application course now get one more course for free, [officerID]=>OF001) | Array( [0]=> stdClass Object ([infoID]=>4, [type]=>promo, [title]=>Buy one get one free, [details]=>Buy one fluoride application course now get one more course for free, [officerID]=>OF001) | Pass |
| 2 | Test to call an information from specific infoID | Array ( [0] => stdClass Object ([infoID]=>5, [type]=>info, [title]=>Why full mouth checkup is important?[details]=>To checkup full mouth is help you to reduce the bad helth of your mouth, [officerID]=>OF001) | Array ( [0] => stdClass Object ([infoID]=>5, [type]=>info, [title]=>Why full mouth checkup is important?[details]=>To checkup full mouth is help you to reduce the bad helth of your mouth, [officerID]=>OF001) | Pass |

### Unit Test Case 43 (UTC-43): testo\_edit\_info\_data()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to save edited data of a promotion to the database | true | true | Pass |
| 2 | Test to save edited data of an information to the database | true | true | Pass |

### Unit Test Case 44 (UTC-44): testo\_delete\_info()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to delete a promotion at infoID from database | true | true | Pass |
| 2 | Test to delete an information at infoID from database | true | true | Pass |
| 3 | Test to delete an information at infoID that not exist from database | false | false | Pass |

### Unit Test Case 45 (UTC-45): testo\_get\_information()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test gat all information and promotion from database | Array ( [0] => stdClass Object ( [infoID]=>1, [type]=>promo, [title]=>Free checkup, [details]=>Full mouth checkup for free at the clinic, [officerID]=>OF001  [1] => stdClass Object  [infoID]=>2, [type]=>information, [title]=>EF Line, [details]=>EF Line is tooth braces for children between 4-15 years old, [officerID]=>OF001  [2] =>stdClass Object[infoID]=>3, [type]=>promo, [title]=>Whitening 30% off, [details]=>End of the year sale, whitening treatment is noe 30% off, [officerID]=>OF002)) | Array ( [0] => stdClass Object ( [infoID]=>1, [type]=>promo, [title]=>Free checkup, [details]=>Full mouth checkup for free at the clinic, [officerID]=>OF001  [1] => stdClass Object  [infoID]=>2, [type]=>information, [title]=>EF Line, [details]=>EF Line is tooth braces for children between 4-15 years old, [officerID]=>OF001  [2] =>stdClass Object[infoID]=>3, [type]=>promo, [title]=>Whitening 30% off, [details]=>End of the year sale, whitening treatment is noe 30% off, [officerID]=>OF002)) | Pass |

### Unit Test Case 46 (UTC-46): testo\_check\_time()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test to check the appointment time with correct day and before appointment time | 10:00:00 | 10:00:00 | Pass |
| 2 | Test to check the appointment time with wrong day | “Not today” | “Not today” | Pass |
| 3 | Test to check the appointment time with no appointment | “No appointment” | “No appointment” | Pass |
| 4 | Test to check the appointment time with correct day but at late appointment time | “You missed” | “You missed” | Pass |

### 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 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test gat all dental treatment from database | Array([0] => stdClass Object [tid]=>1, [tName]=>Full mouth checkup, [cost]=>0])  [1] => stdClass Object [tid]=>2, [tName]=>Composite filling, [cost]=>1000])  [2] => stdClass Object [tid]=>3, [tName]=>Fluoride application, [cost]=>400])  [3] => stdClass Object [tid]=>4, [tName]=>Consultation, [cost]=>0]) | Array([0] => stdClass Object [tid]=>1, [tName]=>Full mouth checkup, [cost]=>0])  [1] => stdClass Object [tid]=>2, [tName]=>Composite filling, [cost]=>1000])  [2] => stdClass Object [tid]=>3, [tName]=>Fluoride application, [cost]=>400])  [3] => stdClass Object [tid]=>4, [tName]=>Consultation, [cost]=>0]) | Pass |

### Unit Test Case 49 (UTC-49): testpMobile\_getAllTreatment()

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

### Unit Test Case 50 (UTC-50): testpMobile\_calculate()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test calculate function that use to estimate the cost of dental treatment by input one dental treatment | 0 | 0 | Pass |
| 2 | Test calculate function that use to estimate the cost of dental treatment by input two dental treatment | 1400 | 1400 | Pass |
| 3 | Test calculate function that use to estimate the cost of dental treatment by not input any dental treatment | 0 | 0 | Pass |

### Unit Test Case 51 (UTC-51): testpMobile\_get\_information()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test gat all information and promotion from database | Array([0] => stdClass Object [infoID]=>1, [type]=>promo, [title]=>Free checkup, [details]=>Full mouth checkup for free at the clinic, [officerID]=>OF001])    [1] => stdClass Object [infoID]=>2, [type]=>information, [title]=>EF Line, [details]=>EF Line is tooth braces for children between 4-15 years old, [officerID]=>OF001])  [2] => stdClass Object infoID]=>3, [type]=>promo, [title]=>Whitening 30% off, [details]=>End of the year sale, whitening treatment is noe 30% off, [officerID]=>OF002  ]) | Array([0] => stdClass Object [infoID]=>1, [type]=>promo, [title]=>Free checkup, [details]=>Full mouth checkup for free at the clinic, [officerID]=>OF001])    [1] => stdClass Object [infoID]=>2, [type]=>information, [title]=>EF Line, [details]=>EF Line is tooth braces for children between 4-15 years old, [officerID]=>OF001])  [2] => stdClass Object infoID]=>3, [type]=>promo, [title]=>Whitening 30% off, [details]=>End of the year sale, whitening treatment is noe 30% off, [officerID]=>OF002  ]) | Pass |

### Unit Test Case 52 (UTC-52): testpMobile\_viewFollowUpByQid()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test get follow up question by qid by input already exist qid | Array([  [qid]=>14, [patientID]=>P001, [dentistID]=>D001, [question]=>How are your composite filling? Is that fine?, [answer]=>null, [qDateTime]=>2014-10-19 11:04:35, [aDateTime]=>null]) | Array([  [qid]=>14, [patientID]=>P001, [dentistID]=>D001, [question]=>How are your composite filling? Is that fine?, [answer]=>null, [qDateTime]=>2014-10-19 11:04:35, [aDateTime]=>null]) | Pass |
| 2 | Test get follow up question by qid by input not exist qid | null | null | Pass |

### Unit Test Case 53 (UTC-53): testpMobile\_answer\_data()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test answer a follow up question at not answered question | true | true | Pass |
| 2 | Test answer a follow up question at answered question | false | false | Pass |

### Unit Test Case 54 (UTC-54): testpMobile\_view\_follow\_up()

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test gat all follow up from database | Array([  [qid]=>13, [patientID]=>P002, [dentistID]=>D002, [question]=>Your retainer is ready in next 3 days (2014-10-15) please come an pick it up at the clinic anytime [answer]=>Ok, thank you very much, [qDateTime]=>2014-10-12 09:15:22, [aDateTime]=>2014-10-13 08:00.28)]) | Array([  [[qid]=>13, [patientID]=>P002, [dentistID]=>D002, [question]=>Your retainer is ready in next 3 days (2014-10-15) please come an pick it up at the clinic anytime [answer]=>Ok, thank you very much, [qDateTime]=>2014-10-12 09:15:22, [aDateTime]=>2014-10-13 08:00.28 )]) | 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:** 10/ 18/ 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 |

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

**Test date:** 10/ 18/ 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 |

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

**Test date:** 10/ 18/ 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:** 10/ 18/ 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 36(STC-36): Dentist can view him/her patient follow up message as a list

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test display patient follow up message by using dentistID | System shall display the patient follow up message of dentistID “D001” | System shall display the patient follow up message of dentistID “D001” | Pass |
| 2 | Test display patient follow up message by using dentistID but incorrect password | System shall not display the patient follow up message of dentistID “D001” | System shall not display the patient follow up message of dentistID “D001” | Pass |
| 3 | Test display patient follow up message without login | System shall not display the patient follow up message | System shall not display the patient follow up message | Pass |

### System Test Case 37(STC-37): Dentist can post question to follow up his/her patient

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test the dentist ‘s question is saved in the database | System shall display the dentist’s question and show the follow up status that show number “1” | System shall display the dentist’s question and show the follow up status that show number “1” | Pass |
| 2 | Test the dentist ‘s question is not saved in the database | System shall display the dentist’s question and show the follow up status that show number “0” | System shall display the dentist’s question and show the follow up status that show number “0” | Pass |
| 3 | Test the dentist ‘s question is not saved in the database if the field is empty | System shall alert the message “Please fill out this field” | System shall alert the message “Please fill out this field” | Pass |

### System Test Case 38(STC-38): Patient can view follow up massage that his/her dentist asked in the website as a list

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test display patient follow up message by using patientID | System shall display the dentist follow up message of patientID “P001” | System shall display the dentist follow up message of patientID “P001” | Pass |
| 2 | Test display patient follow up message by using patientID but incorrect password | System shall not display the dentist follow up message of patientID “P001” | System shall not display the dentist follow up message of patientID “P001” | Pass |
| 3 | Test display patient follow up message without login | System shall not display the follow up message | System shall not display the follow up message | Pass |

### System Test Case 39(STC-39): Patient can answer follow up massage that his/her dentist asked in the website as a list

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test the patient ‘s question is saved in the database | System shall display the patient’s answer and show the follow up status that show number “1” | System shall display the patient’s answer and show the follow up status that show number “1” | Pass |
| 2 | Test the patient ‘s question is not saved in the database | System shall display the patient’s answer and show the follow up status that show number “0” | System shall display the patient’s answer and show the follow up status that show number “0” | Pass |

### 

### System Test Case 40(STC-40): Patient can view follow up massage that his/her dentist asked in mobile application as a list

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test display patient follow up message by using patientID | System shall display the dentist follow up message of patientID “P001” | System shall display the dentist follow up message of patientID “P001” | Pass |
| 2 | Test display patient follow up message by using patientID but incorrect password | System shall not display the dentist follow up message of patientID “P001” | System shall not display the dentist follow up message of patientID “P001” | Pass |
| 3 | Test display patient follow up message without login | System shall not display the follow up message | System shall not display the follow up message | Pass |

### System Test Case 41(STC-41): Patient can answer view follow up massage that his/her dentist asked in mobile application as a list

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test the patient ‘s answer is saved in the database | System shall display the patient’s answer and show the follow up status that show number “1” | System shall display the patient’s answer and show the follow up status that show number “1” | Pass |
| 2 | Test the patient ‘s answer is not saved in the database | System shall display the patient’s answer and show the follow up status that show number “0” | System shall display the patient’s answer and show the follow up status that show number “0” | Pass |

### 

### System Test Case 42(STC-42): Patient can view the dental clinic information and promotion in the website

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test the patient can view the detail of dental clinic information or promotion | System shall display the dental clinic information or promotion in index page | System shall display the dental clinic information or promotion in index page | Pass |
| 2 | Test the patient can view the detail of dental clinic information or promotion without internet | System shall not display the dental clinic information or promotion in index page | System shall not display the dental clinic information or promotion in index page | Pass |

### System Test Case 43(STC-43): Patient can view the dental clinic information and promotion in mobile application

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test the patient can view the detail of dental clinic information or promotion | System shall display the dental clinic information or promotion in index page | System shall display the dental clinic information or promotion in index page | Pass |
| 2 | Test the patient view the detail of dental clinic information or promotion without internet | System shall not display the dental clinic information or promotion in index page | System shall not display the dental clinic information or promotion in index page | Pass |

### System Test Case 44(STC-44): Officer can add the information to the database

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test officer input dental clinic information | System shall redirect to all information and promotion page. Display the dental clinic information of infoID “1” | System shall redirect to all information and promotion page. Display the dental clinic information of infoID “1” | Pass |
| 2 | Test officer input dental clinic promotion | System shall redirect to all information and promotion page. Display the dental clinic promotion of infoID “2” | System shall redirect to all information and promotion page. Display the dental clinic promotion of infoID “2” | Pass |
| 3 | Test officer input dental clinic information with empty field | System shall provide dialog blog “Please fill out this field” | System shall provide dialog blog “Please fill out this field” | Pass |
| 4 | Test officer input dental clinic promotion with empty field | System shall provide dialog blog “Please fill out this field” | System shall provide dialog blog “Please fill out this field” | Pass |

### System Test Case 45(STC-45): Officer can edit the dental clinic information in the database

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test officer input dental clinic information in description column from “xxxxx” to “yyyy” | System shall redirect to all information and promotion page. Display the dental clinic information of infoID “1” the column description should be “yyyyy” instead “xxxxx” | System shall redirect to all information and promotion page. Display the dental clinic information of infoID “1” the column description should be “yyyyy” instead “xxxxx” | Pass |
| 2 | Test officer input dental clinic information in description column from “xxxxx” to “yyyy” | System shall redirect to all information and promotion page. Display the dental clinic promotion of infoID “2” the column description should be “yyyyy” instead “xxxxx” | System shall redirect to all information and promotion page. Display the dental clinic promotion of infoID “2” the column description should be “yyyyy” instead “xxxxx” | Pass |
| 3 | Test officer input dental clinic information with empty field | System shall provide dialog blog “Please fill out this field” | System shall provide dialog blog “Please fill out this field” | Pass |
| 4 | Test officer input dental clinic promotion with empty field | System shall provide dialog blog “Please fill out this field” | System shall provide dialog blog “Please fill out this field” | Pass |

### System Test Case 46(STC-46): = Officer can delete the dental clinic information from the database

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test delete dental clinic information data | System shall provide the list of dental clinic information and promotion all information and promotion page without the infoID is “1” | System shall provide the list of dental clinic information and promotion all information and promotion page without the infoID is “1” | Pass |
| 2 | Test delete dental clinic promotion data | System shall provide the list of dental clinic information and promotion all information and promotion page without the infoID is “2” | System shall provide the list of dental clinic information and promotion all information and promotion page without the infoID is “2” | Pass |
| 3 | Test delete dental clinic information data | System shall provide the list of dental clinic information and promotion all information and promotion page without the infoID is “1” | System shall provide the list of dental clinic information and promotion all information and promotion page without the infoID is “1” | Pass |
| 4 | Test delete dental clinic promotion data | System shall provide the list of dental clinic information and promotion all information and promotion page without the infoID is “2” | System shall provide the list of dental clinic information and promotion all information and promotion page without the infoID is “2” | Pass |

### System Test Case 47(STC-47): Visitor can view the dental clinic information and promotion

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test the visitor can view the detail of dental clinic information or promotion | System shall display the dental clinic information or promotion in index page | System shall display the dental clinic information or promotion in index page | Pass |
| 2 | Test the visitor view the detail of dental clinic information or promotion without internet | System shall not display the dental clinic information or promotion in index page | System shall not display the dental clinic information or promotion in index page | Pass |

### System Test Case 48(STC-48): Patient can select the dental treatment to estimate the cost by him/herself

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test the patient can select the dental treatment to estimate the cost | System shall display the total price that patient selected and the total price should be “4000” | System shall display the total price that patient selected and the total price should be “4000” | Pass |
| 2 | Test the patient can select the dental treatment to estimate the cost with login of patientID “P001” | System shall display the total price that patient selected and the total price should be “4000” | System shall display the total price that patient selected and the total price should be “4000” | Pass |
| 3 | Test the patient select the dental treatment to estimate the cost without internet | System shall not display the total price that patient selected | System shall not display the total price that patient selected | Pass |

### System Test Case 49(STC-49): Patient can select the dental treatment to estimate the cost by him/herself in the mobile application

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test the patient can select the dental treatment to estimate the cost | System shall display the total price that patient selected and the total price should be “4000” | System shall display the total price that patient selected and the total price should be “4000” | Pass |
| 2 | Test the patient can select the dental treatment to estimate the cost with login of patientID “P001” | System shall display the total price that patient selected and the total price should be “4000” | System shall display the total price that patient selected and the total price should be “4000” | Pass |
| 3 | Test the patient select the dental treatment to estimate the cost without internet | System shall not display the total price that patient selected | System shall not display the total price that patient selected | Pass |

### System Test Case 50(STC-50): Visitor can select the dental treatment to estimate the cost by him/herself in the website

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test the visitor can select the dental treatment to estimate the cost | Test the visitor select the dental treatment to estimate the cost without internet | Test the visitor select the dental treatment to estimate the cost without internet | Pass |
| 2 | System shall display the total price that visitor selected and the total price should be “4000” | System shall not display the total price that patient selected | System shall not display the total price that patient selected | Pass |
| 3 | Test the visitor can select the dental treatment to estimate the cost | Test the visitor select the dental treatment to estimate the cost without internet | Test the visitor select the dental treatment to estimate the cost without internet | Pass |

### System Test Case 51(STC-51): Officer can add dental treatment information including the detail and cost into the database

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test officer input dental treatment detail | Test officer input dental treatment with empty field | Test officer input dental treatment with empty field | Pass |
| 2 | System shall redirect to all dental treatment page. Display the dental treatment of infoID “1” in the list. | System shall provide dialog blog “Please fill out this field” | System shall provide dialog blog “Please fill out this field” | Pass |

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### System Test Case 52(STC-52): Officer can edit dental treatment information including the detail and cost in the database

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test officer input dental treatment detail | Test officer input dental treatment with empty field | Test officer input dental treatment with empty field | Pass |
| 2 | System shall redirect to all dental treatment page. Display the dental treatment of infoID “1” in the list. | System shall provide dialog blog “Please fill out this field” | System shall provide dialog blog “Please fill out this field” | Pass |

### System Test Case 53(STC-53): Officer can delete dental treatment information including the detail and cost in the database

**Test date:** 10/ 18/ 2014 **Tested by: Kanokwan & Worapun**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Test delete dental treatment data | Test delete dental treatment data | Test delete dental treatment data | Pass |
| 2 | System shall provide the list of dental treatment and display all data without the tid number “1” | System shall provide the list of dental treatment and display all data without the tid number “1” | System shall provide the list of dental treatment and display all data without the tid number “1” | Pass |