**Dental Clinic Services System**

Test Plan

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**Test Plan**

**Revision Table**

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**Table of Content**

**Chapter One: Introduction**

**1.1 Objectives**

The objectives of the test plan of Dental clinic services system is to establish the bug or other defect that occur in the website and the mobile application and fixed. The test plan creates for guarantee that all the defect will found before release the program so, the program should be faultless. The unit testing is cover all implemented of Dental clinic services system and also testing the user requirement.

**1.2 Scope**

The test plan describes the black-box testing and white-box testing are condition to solve the defects in the system and describes the system testing activities for testing a completely integrated system to verify that it meets the user requirements.

**1.3 Acronyms and Definitions**

**1.3.1 Acronyms**

DCSS = Dental Clinic Services System

PMP = Project Management Plan

SDD = Software Design Document

SRS = Software Requirement Specification

SRS = Software Requirement Specification

UC = Use Case

UI = User Interface

UTC = Unit Test Case

STC = System Test Case

**1.3.2 Definitions**

Feature Transformation of input parameters to output parameters based on a specified algorithm. It describes the functionality of a produce in the language of the product. Used for requirements analysis, design, coding, testing or maintenance. [IEEE90]

Design The period of time in the software life cycle during which the designs for architecture, software component, interfaces and data are created, documented, and verified to satisfy requirements. [IEEE90]

IEEE Institute for Electrical and Electronics Engineers. Biggest global interest group for engineers of different branches and for computer scientists. [IEEE90]

Requirement (1) A condition or capability needed by a user to solve a problem or achieve an objective. (2) A condition or capability that must be met or processed by system or system component to satisfy a contract, standard, specification, or other formally imposed document. (3) A documented representation of a condition or capability as in definition (1) or (2). [IEEE90]

Specification Precise description of an activity or work product which serves as basis or input for further activities or work product. A specification can comprise requirements to a product and how they will be solved. Different parts of a specification (e.g. what is to be done, how it will be done) must not be mixed. [IEEE90]

White box testing Testing process that focus on internal structure. The tester should know the code inside the program and test it through the code and determines the appropriate outputs.

Black box testing Process, device or system that focus on input, output and transfer characteristics without knowledge about it internal structure.

Unit Testing A level of the software testing process where individual units/components of a software/system are tested. The purpose is to validate that each unit of the performs as designed.

System testing A level of the software testing process where a complete, integrated system/software is tested. The purpose of this test is to evaluate the system's compliance with the specified requirements.

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

**2.1 Test Objectives**

The objectives of testing Dental clinic services system in web application and in Mobile application project are:

1. All bugs or defects are detected.
2. Those bugs or defects are fixed.
3. Meet user's requirements.
4. All functionalities and features must be there.

**2.2 Scope**

Dental clinic services system will test by white-box testing and black-box testing techniques that are unit testing and system testing and record the test result in the test record.

**2.3 Test Duration**

|  |  |
| --- | --- |
| **Progress** | **Date and Duration** |
| **Progress one report** | Perform date: 16th May 2013 - 18th May 2013(Unit test, System test) Duration: 3 days |

**2.4 Test Responsibility**

|  |  |
| --- | --- |
| **Item** | **Responsibility** |
| Unit test of web application |  |
| Unit test of ios mobile application |  |
| Record unit test of web application |  |
| Record unit test of ios mobile application |  |
| System test of web application |  |
| System test of ios mobile application |  |
| Record system test of web application |  |
| Record system test of ios mobile application |  |

**2.5 Test Strategy**

Dental clinic services system test strategy will be follow by:

1. Design test case for each feature.
2. Prepare test data for each feature.
3. Determine expected results.
4. Perform testing on individual feature.
5. Result testing will be record.

10. All test files will be store in the project repository.

**2.6 Result of Testing**

In the test record the test result will separate into two parts, which are:

1. Actual output: The actual outputs that are performed by each test case.

2. Pass/Fail criteria:

2.1 Pass: the result of actual result is same like expected result.

2.2 Fail: the result if actual result is not same like expected result.

**2.7 Test Environment**

**2.7.1 Hardware**

* **Computer**
* **Dell Inspiron N4110**

**Processor:** Intel(R) Core(TM) i3-2310M CPU@ 2.10GHz, 2.10 GHz

**Memory:** 6.00 GB

**Operating system:** Window 7 Ultimate

* **Sony VAIO SVE14118FHB**

**Processor:** Intel(R) Core(TM) i7-3612QM CPU@ 2.10GHz, 2.10 GHz

**Memory:** 8.00 GB

**Operating system:** Windows 7 Home Premium

* **MacBook Pro**

**Processor:** 2.5 GHz Intel Core i5

**Memory:** 4 GB 1600 MHz DDR38.00 GB

**Operating system:** W OS X 10.9.2 (13C1021)

**2.7.2 Software**

* Google Chrome Version 19.0 or later
* HTML version 5
* PHP editor Version 5
* Xcode version 5.1.1
* Codeigniter framework version 2.1.4
* Phonegap version 3.0
* Ios operating system version ios7
* Adobe Dreamweaver CC
* Zxing qr code generater

**Chapter Three | Unit Testing of LCR Web Application**

Class UsersController

 Unit Test Case 01 (UTC-01): login() Description

Test the login() method to see that it can login and can't redirect to login page if using a wrong URL.

Test Cases

Unit Test Case 02 (UTC-02): logout() Description

Test the logout() method to see that it can logout and redirect to login page.

Test Cases

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ID |  |  | Description |  |  | Input |  |  | Expected Result |  |
| 1 | | | This method can redirect to .../users/login and login to web application | | | ".../users/login" | | | Pass | | |
| 2 | | | This method can't redirect to users/login by using a wrong URL: .../user/login | | | ".../user/login" | | | Fail | | |
|  | ID |  |  | Description |  |  | Input |  |  | Expected Result |  |
| 1 | | | This method can logout and redirect to login page. | | |  | | |  | | |