**Test Plan: Quick Fix Dental Practice Test Plan**

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# TABLE OF CONTENTS

1.0 INTRODUCTION

2.0 OBJECTIVES AND TASKS

2.1 Objectives

2.2 Tasks

3.0 SCOPE

4.0 Testing Strategy

4.1 Unit Testing

4.2 Regression Testing

**1.0 INTRODUCTION**

Dental Practice desktop application for managing the NHS services offered to the patients registered with the dental practice. The core functionalities include the staff registration to the system, Patient registration to the system, Login authentication for both staffs and patients, Maintenance of the medical history and treatment plan for the patients, booking and changing of appointments.

**2.0 OBJECTIVES AND TASKS**

# 2.1 Objectives

Test cases will be identified and documented. Functional testing and unit testing will be carried out based on the test cases. Failed cases will be regression tested once fixed.

**2.2 Tasks**

Tasks identified are writing the test cases for business logic, test cases. Failed and Passed cases to be documented. Retest to be carried out after fixing the first round of failed cases. This process will be repeated until all the cases passed.

**3.0 SCOPE**

The testing scope for this product is the sub system and not the whole system. The sub system identified for this product to be implemented is Patient Registration, Viewing the registered patients, adding Medical History to the patients.

# 4.0 TESTING STRATEGY

The Business requirements will be identified and documented. Identified business requirements will be split into sub systems for each timebox. Code coverage for each requirement will be identified and the test cases for each requirement will be identified and documented.

Test cases for each requirement will be unit tested and the output will be recorded. If the test case fails, bug fixing will be carried out and the regression testing will be carried out.

Failed cases will be again tested until the test case pass and the test closure will be done.

The logical functionalities identified were

1. Staff registration,
2. Patient Registration,
3. Staff Login,
4. Patient Login,
5. Adding Patient through Staff login,
6. Listing the patients through Staff Login,
7. Viewing and updating the Patient profile through Staff Login,
8. Adding and Updating Medical History of Patient through Staff Login
9. Booking/Cancel Appointment through Staff Login
10. Adding Treatment Plan through Staff (Dentist) Login
11. Adding and Updating MedicalHistory through patient Login.
12. View /Cancel Appointment through patient Login.

From the above functionalities, it was decided to implement only the subset of the features as below.

1. Adding Patient through Staff login,
2. Listing the patients through Staff Login,
3. Viewing and updating the Patient profile through Staff Login,
4. Viewing, Adding and Updating Medical History of Patient through Staff Login.

|  |  |  |
| --- | --- | --- |
| S. No | Business Requirement | Code Coverage |
| 1. | Login to System through Staff Login | Code to show login form.  Code to authenticate the staff login details. |
| 2. | Listing the Existing Patients | Code to list the patients already stored in database. |
| 3. | Adding new patient | Code to show patient registration form when click on Add patient.  Code to add the patient to the database when click on submit in patient registration form. |
| 4. | Viewing the patient profile. | Code to get the patient details from the database when double click the patient info from the patient list. |
| 5. | Updating the patient profile. | Code to update the edited details of the patient to the database upon submit. |
| 6. | Viewing the Medical History of the patient. | Code to display the medical history of the selected patient ID. |
| 7. | Adding the medical history. | Code to add the medical history of the selected patient upon click on next in the patient profile page. |
| 8. | Updating the medical history. | Code to update the medical history of the selected patient upon click submit in the medical history page. |

Unit Testing:

Test Cases:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Id | Purpose | Precondition | Data | Expected Result | Pass/Fail |
| 1 | Login to System through Staff Login. | Login credentials to be given for staff. | Login Credentials: username: Subha  Pwd: Subha | Authentication success. | Pass |
| 2. | Listing the Existing Patients | Logged in successfully to the system. |  | Patients list. | Pass |
| 3. | Adding new patient. | Logged in successfully to the system. |  | Patient successfully listed in the list. | pass |
| 4. | Updating the patient profile. | Logged in successfully to the system. |  | Edit the patient name and check if it is reflected in the list. | pass |
| 5. | Viewing the medical history. | Logged in successfully to the system. |  | Goto patient profile and click next should open the medical history page. | pass |
| 6. | Updating the medical history. | Logged in successfully to the system.  Open the medical history page of the selected patient. |  | Update the Alergic to information and click on submit.  Updated information should get reflected when reopen the page again. | Fail |

Regression Testing:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Id | Purpose | Precondition | Data | Expected Result | Pass/Fail |
| 1. | Viewing the Medical History. | Logged in successfully to the system. |  | Goto patient profile and click next should open the medical history page. | Pass |
| 2. | Updating the medical history. | Logged in successfully to the system.  Open the medical history page of the selected patient. |  | Update the Alergic to information and click on submit.  Updated information should get reflected when reopen the page again. | Pass |

Test Closure:

The subset of the chosen business requirements was tested, and the failed cases were fixed and retested. The retested cases were passed, and the test closure is done for all the cases covered in the subset of the business requirements.