

Product Name: Electronic Medical Record System Application

Client: Health and Education for All (HAEFA)

TEST PLAN: ELECTRONIC MEDICAL RECORD SYSTEM APPLICATION

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Overview

As part of the project, testing team will test user side functionalities of HAEFA electronic medical record system web application.

This document serves test planning document with details on the scope of the project, test strategy, test schedule and resource requirements, test deliverables and schedule.

Scope

The scope of the project includes testing, the following features of HAEFA medical record system desktop application

Inclusions

- Doctor's Login functionality
- Home Page functionality
- Patient Registration functionality
- Doctor's Logout functionality
- Doctor's Profile functionality
- Search Patient functionality
- Station 1 - Height/Weight
- Station 2 - Vital Statistic
- Station 3 - Glucose & Hemoglobin
- Station 4 - Physician, Obs & Gynae
- Station 4B functionality
- Station 4C functionality
- Station 4D - (Cardiovascular risk - Non-Lab Based)
- Station 4D - (Cardiovascular risk - Lab Based)

From our understanding, we believe above functional areas need to be tested.

Test Environments

Operating System:

- Windows 10
- TAB

Browsers:

- Google Chrome
- Mozilla Firefox
- Internet Explorer

Exclusions

- All the features except that are mentioned under “Inclusions”
- Any third-party features or payment gateway
- Test Automation

Test Strategy

Testing team will perform Functional Testing of all the functionalities mentioned in the above Scope section.

As part of Functional testing, we will follow the below approach for testing:

Step#1 - Creation of Test Scenarios and Test cases for the different features in scope.

- We will apply several test Designing techniques while creating Test Cases
 - Equivalence Class Partition
 - Boundary Value Analysis
 - System integration testing
 - Decision Table Testing
 - State Transition Testing
 - Use Case Testing
- We also use our expertise in creating Test Cases by applying the below:
 - Error Guessing
 - Exploratory Testing
- We priorities the Test Cases

Step#2 - Our Testing process, when we get an Application for Testing:

- Firstly, we will perform Smoke Testing to check whether the different and important functionalities of the application are working.
- We reject the build, if the Smoke Testing fails and will start for the stable build before performing in depth testing of the application functionalities.
- Once we receive a stable build, which passes Smoke Testing, we perform in depth testing using the test case created.
- Multiple Test Resources will be testing the same Application on Multiple Supported Environments simultaneously.
- We then report the bugs by the email or Skype.
- As part of the Testing, we will perform the below types of Testing:
 - Smoke Testing and Sanity Testing
 - Functional and non-Functional Testing
 - Regression Testing and Retesting
 - Usability Testing, Functionality testing
- We repeat Test Cycles until we get the quality product.

Step#3 - We will follow the below best practices to make our Testing better:

- Context Driven Testing - We will be performing Testing as per the context of the given application.
- Exploratory Testing - Using our expertise we will perform Exploratory Testing, apart from the normal execution of the Test cases.
- End to End Flow Testing - We will test end to end scenario which involve multiple functionalities to simulate the end user flows.

Defect Reporting Procedure:

During the test execution -

- Any deviation from expected behavior by the application will be noted, If It can't be reported as a defect, it'd be reported as an observation/issue or posed as a question.
- Any usability issues will also be reported.
- After discovery of a defect, it will be retested to verify reproducibility of the defect. Screenshots with steps to reproduce are documented.
- Every day, at the end of the test execution, defects will be sent along with the observations.

Note:

- Defects will be documented in a excel (spreadsheet).
- Test scenarios and Test cases will be documented in an excel document.

Project Roles & Responsibilities

Name	Role	Responsibilities
Rashed Zahan	SQA Engineer (TL)	<ul style="list-style-type: none"> ✓ Create the test plan ✓ Test design and execution ✓ Test env. setup ✓ Report defects ✓ Verify validity of the defects being reported. ✓ Submit daily issue updates ✓ Attend QA meeting ✓ Interact with the application
Mustafa Tanim	Jr. QA Engineer	<ul style="list-style-type: none"> ✓ Smoke testing ✓ Test case writing ✓ Test execution ✓ Bug reporting ✓ Daily test report update

Test Schedule

Following is the test schedule planned for the project:

Task	Time Duration
▪ Creating test plan	26 Sep 2023 to 4 Oct 2023
▪ Test Case Creation (Functional test)	04 Oct 2023 to 19 Oct 2023
▪ Test Case Creation (Database Testing)	17 Oct 2023 to 24 Oct 2023
▪ Test Execution & Defect Report	10 Oct 2023 to 29 Nov 2023
▪ Summary Reports Submission	03 Dec 2023

Test Deliverable

The following are to be delivered:

Deliverables	Description	Target Completion Date
Test Plan	Details on the scope of the project, test strategy, test schedule, resource requirements, test deliverables and schedule	04 Oct 2023
Functional Test Cases	Test Cases created for the scope defined	20 Oct 2023
Defect Reports	The defects identified along with screenshots	31 Oct 2023

Entry and Exit Criteria

There are five Entry and Exit Criteria for every phase of Software Testing Life Cycle:

Requirement Analysis

Entry Criteria:

- Once the testing team received requirements Documents or Details about the project.

Exit Criteria:

- List of requirements are explored and understood by the Testing team
- Doubts are cleared

Test Planning

Entry Criteria:

- Testable requirements derived from the given Requirements Documents or project details
- Doubts are cleared

Exit Criteria:

-
- Test plan document (Includes Test Strategy) is approved

Test Designing

Entry Criteria:

- Test plan document is approved

Exit Criteria:

- Test Scenarios and Test Cases Documents are approved

Test Execution

Entry Criteria:

- Test scenarios and Test Cases Documents are approved
- Application is ready for testing

Exit Criteria:

- Test Case reports, Defect Report are ready

Test Closure

Entry Criteria:

- Test Case reports, Defect Report are ready

Exit Criteria:

- Test summary reports

Suspension and Resumption Criteria

Based on decision, we will suspend and resume the project.

Tools

The following are the list of tools we will use in this Project:

- Mind mapping tools
- Snipping tools for screenshot
- Word and Excel documents

Risks and Mitigations

The following are the list of risk possible and the ways to mitigate them:

Risk: Non-Availability of a Resource

Mitigation: Backup Resource Planning

Risk: Build URL is not working

Mitigation: Resource will work on other tasks

Risk: Less time and manpower for Testing

Mitigation: Ramp up the resources based on needs dynamically

Approvals

Team will send different types of documents for Approval like below:

- Test Plan
- Test Scenarios
- Test Cases
- Reports

Testing will only continue to the next steps once these approvals are done.