**Team 38 - Patient and Insurance Management System – Check Application**

**Software Test Plan**

**CSCI-P465/565 (Software Engineering I)**

**Project Team**

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**1. Overview**

This section provides an overview of the testing approach used to verify the software product.

**1.1 Test Objectives**

1. To make sure the user is able to create an account through sign up page.

2. User should be able to login back based on the role they selected.

3. Patient, doctor and insurer views are to be accessible based on the role selected.

4. Backend functions for user account creation and logging in password verification are working as expected.

5. Make sure the CRUD operations for user account information in backend are properly working, by verifying the data updates in user related tables of database.

**1.2 Test Environment**

The various test environments are:

1. Chrome

2. Firefox

3. Safari

The basic specifications needed to perform the tests are as follows:

1. 8GB of memory

2. Processors in the clock range of 1.6Ghz to 3.2Ghz

**1.3 Test Personnel**

Backend testing: Rishi Sanjaykumar Patil, Zane Snider Ellis

Frontend and UI testing: Harshitha Nooli

Database testing: Sri Rashmitha Boya

There is no user involvement required for the testing process.

**1.4 Acceptance Criteria**

* The product needs to satisfy all the user requirements as an effective patient and insurance management system.
* If any of the required features or its sub features are malfunctioning or not working as expected such that they can potentially hinder the further testing process, then they are to be corrected to start the process all over again.
* Regression testing is also to be done after fixing the malfunctioned features if found any.

**1.5 Noted Omissions**

The minimal glitches or alignments in the user interface transition are not included in the tests, and are considered as negligible as long as it holds the intended functionality

**2. Test Cases**  
  
**Number:**                **1**  
**Name:**                   User account creation  
**Description:**          The test case verifies if user is able to create an account in the system  
**Initial Conditions:** None   
**Input Data:**  Custom username, password and email  
**Specifications:**

1. System must save user data upon creating an account and redirect user back to sign in page.

2. Error message to be shown upon entering any invalid data in the specified fields on screen.

**Procedure:**

1. Navigate to the sign up page and enter user credentials.

2. Verify that system is showing success message upon account creation and user view is redirected to sign in page

3. Check if error message is shown for invalid data entered.  
  
**Number:**                **2**  
**Name:**                   User login  
**Description:**          The test case verifies if user is able to login to the system  
**Initial Conditions:**  User account already created for successful login attempt verification  
**Input Data:**  Custom username, password and email  
**Specifications:**

1. Successful login attempt leads to the individual roles landing page.

2. Incorrect login credentials must show error message.

3. When login details are not found, the system displays a message to create a new account  
**Procedure:**

1. Navigate to the login page and enter custom login credentials.

2. Repeat step 1 with three sets of custom credentials, covering all three specifications.

3. Verify that the system returns the expected results for all the above cases.  
  
**Number:**                **3**  
**Name:**                   Forgot password  
**Description:**          The test case verifies the password recovery method in the case of user forgetting the password.  
**Initial Conditions:**  User account already created  
**Input Data:**  Email address  
**Specifications:**

1. Checking if the entered email address exists in the database, else an error message is displayed.

2. Allowing password resetting in case the user forgets their password.   
**Procedure:**

1. Navigate to the Forgot Password page from the Login page upon clicking forgot password link.

2. Enter a registered user email address, where a link for resetting password would be sent to user registered email address to set up new password.

3. Enter a wrong email address to check if user not found error message is displayed

**Revision History**

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| --- | --- | --- |
| **Revision** | **Date** | **Change Description** |
| User account creation and authentication tests | 02 October 2023 | Tests have been verified |