

# Test Plan

## A. Identification and classification

Test Case 001

System: Server/Client Communication

Database setup and connection

Severity: 1

## B. Instructions

Launch the executable

## C. Expected Result

Upon successful database setup and connection, user will see the login page.

## A. Identification and classification

Test Case 002

System: Client startup check with correct Login

Successful login

Severity: 1

## B. Instructions

Launch the executable and click on login. Enter a valid username with correct password

## C. Expected Result

You will be redirected to the main page of doctor if you are a doctor, main page of patient if you are a patient

## A. Identification and classification

Test Case 003

System: Client startup check with incorrect login

Unsuccessful login with incorrect password

Severity: 1

## B. Instructions

Launch the executable and click on login user. Enter your username with an incorrect password

## C. Expected Result

You will be redirected to the unsuccessful login page

## A. Identification and classification

Test Case 004

System: Client startup check with incorrect login

Login with non-existent user

Severity: 1

## B. Instructions

Launch the executable and click on login user. Enter a username that is not in the system, i.e. 'fake123'

### **C. Expected Result**

You will be redirected to the unsuccessful login page

### **A. Identification and classification**

Test Case 005

System: Account creation

Create account successfully

Severity: 1

### **B. Instructions**

Launch the executable and click the create account button. User will select the type of account (patient or doctor). The system will generate a new entry in the account credential table for the patient or doctor respectively.

### **C. Expected Result**

User will get a prompt saying that account has been successfully created.

### **A. Identification and classification**

Test Case 006

System: Database functionality

Inserting information in a textbox (apply for both doctor and patient)

Severity: 1

### **B. Instructions**

Launch the executable and click on login user. Log in with a patient's or doctor's username and password. Insert text in textbox. Save, logout, and log back in.

### **C. Expected Result**

The system should inform user that the latest info has been successfully saved. Verify the changes you made is up to date. (Verify that the system does not display any unwanted data by doing SQL injection).

### **A. Identification and classification**

Test Case 007

System: Database functionality

Modifying information in textbox

Severity: 1

### **B. Instructions**

Launch the executable and click on login user. Log in with a patient's or doctor's username and password. Edit info, modify one of the fields, click save, logout, and log back in.

### **C. Expected Result**

The system should inform user that the latest info has been successfully saved. Verify the changes you made is up to date.

### **A. Identification and classification**

#### Test Case 008

System: Account creation

Create account failure - Username already exists

Severity: 2

##### B. Instructions

Launch the executable and click the create account button. User will select the type of account (patient or doctor). User will provide an existing username, and the system will validate if similar username already exists.

##### C. Expected Result

User will get a prompt saying that account with username already exists.

#### A. Identification and classification

##### Test Case 009

System: Add Doctor

Add a doctor to look at patients info

Severity: 2

##### B. Instructions

Launch the executable and click on login user. Log in with a patient's username and password. Click on search for doctor. Type in a valid doctor's name. Add that doctor. Check the patient's doctor list. Launch another executable and Login as the doctor. Check the doctor's patient list.

##### C. Expected Result

The doctor should show up on the patients doctor list, and the patient should show up on the doctors patient list.

#### A. Identification and classification

##### Test Case 010

System: Server/Client Communication

Patient adds doctor and change is reflected for doctor

Severity: 2

##### B. Instructions

Launch the executable and click on login user. Log in with a patient's username and password. In the 'My Doctors' tab add the username of a doctor. Sign out and log back in with a doctor's username and password. Go to the 'My Patients' tab. Confirm that the patient's username is present in the list.

##### C. Expected Result

You will be able to successfully login as a user and upon entering the doctor to your list you will get a confirmation message. Upon successfully logging in as a doctor, you will see that the patient's username is in your patient list and you will be able to see their profile.

#### A. Identification and classification

##### Test Case 011

System: Logout

Make sure that log out works correctly

Severity: 2

## **B. Instructions**

Launch the executable and log in with the correct username and password. Then log out.

## **C. Expected Result**

You should be taken back to the login screen and the username and password textboxes should be blank.

## **A. Identification and classification**

Test Case 012

System: Password Quality

Password too short

Severity: 2

## **B. Instructions**

Launch the executable and create a profile with a valid username and a password of 7 or less characters

## **C. Expected Result**

There should be an invalid password error, and notify the user that only passwords of character length 8 to 15 are valid.

## **A. Identification and classification**

Test Case 013

System: Password Quality

Password boundary lengths

Severity: 2

## **B. Instructions**

Launch the executable and create a profile with a valid username and a password consisting of 8 characters. Launch the executable again and create a profile with a valid username and a password consisting of 15 characters.

## **C. Expected Result**

Two new accounts should be created.

## **A. Identification and classification**

Test Case 014

System: Password Quality

Password too long

Severity: 2

## **B. Instructions**

Launch the executable and create a profile with a valid username and a password of 16 or more characters

## **C. Expected Result**

There should be an invalid password error, and notify the user that only passwords of character length 8 to 15 are valid.

## **A. Identification and classification**

Test Case 015

System: Username Quality

Username too short

Severity: 2

## **B. Instructions**

Launch the executable and create a profile with username consisting of 4 or less characters and a valid password.

## **C. Expected Result**

There should be an invalid username error, and notify the user that only usernames of character length 5 to 12.

## **A. Identification and classification**

Test Case 016

System: Username Quality

Username too long

Severity: 2

## **B. Instructions**

Launch the executable and create a profile with username consisting of 13 or more characters and a valid password.

## **C. Expected Result**

There should be an invalid username error, and notify the user that only usernames of character length 5 to 12.

## **A. Identification and classification**

Test Case 017

System: Username Quality

Username boundary lengths

Severity: 2

## **B. Instructions**

Launch the executable and create a profile with username consisting of 5 characters and a valid password. Restart the executable and create another profile with a username consisting of 12 characters and a valid password.

## **C. Expected Result**

Two new accounts should be created successfully.

## **A. Identification and classification**

Test Case 018

System: Doctor Search

Search for a valid doctor

Severity: 2

## **B. Instructions**

Launch the executable and click on login user. Log in with a patient's username and password. Click on search for doctor. Type in a valid doctor's name.

### C. Expected Result

The doctors info should show up on the list, and should be the correct info

### A. Identification and classification

Test Case 019

System: Doctor Search

Search for an invalid doctor

Severity: 3

### B. Instructions

Launch the executable and click on login user. Log in with a patient's username and password. Click on search for doctor. Type in an invalid doctor's name.

### C. Expected Result

The list should come up empty

### A. Identification and classification

Test Case 020

System: Checking date of birth

Insert a valid date of birth

Severity: 3

### B. Instructions

Launch the executable and click on login user. Log in with a patient's username and password. Edit patient's information. Insert a valid date of birth and click the 'update' button.

### C. Expected Result

The system should inform the user that the information has been saved successfully.

### A. Identification and classification

Test Case 021

System: Checking date of birth

Insert an invalid date of birth

Severity: 3

### B. Instructions

Launch the executable and click on login user. Log in with a patient's username and password. Edit patient's information. Insert an invalid date of birth and click the 'update' button. An invalid date of birth can consist of the following  
inappropriate month (month>12 or month<0)  
inappropriate date (29 days max in February with the leap year, 30 days in January, 31 days in August, etc.)  
inappropriate year (year > current year or year < 0)

### C. Expected Result

The system should inform the user that the information is not saved because the date is invalid.

### A. Identification and classification

Test Case 022

System: Checking contact number (both patient and doctor)

Insert 10 digit number

Severity: 3

### **B. Instructions**

Launch the executable and click on login user. Log in with a patient's or doctor's username and password. Edit info, insert 10 digit phone number

### **C. Expected Result**

The system should inform the user that the information has been saved successfully.

### **A. Identification and classification**

Test Case 023

System: Login

Ensure a profile cannot be logged into by two people at the same time.

Severity: 3

### **B. Instructions**

Launch the executable twice and sign in as the same patient.

### **C. Expected Result**

The first instance should sign in as expected, the second should get an 'User already signed in' error.

### **A. Identification and classification**

Test Case 024

System: Checking contact number (both patient and doctor)

Insert an invalid contact number (the length of contact number not equal to 10)

Severity: 3

### **B. Instructions**

Launch the executable and click on login user. Log in with a patient's or doctor's username and password. Edit info, insert an invalid phone number. Click save

### **C. Expected Result**

The system should inform the user that the information is not saved due to invalid phone number.