Test Plan Document

CareAway Treatment Planner

**Date**: 12/7/2017

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# Revision History

|  |  |  |
| --- | --- | --- |
| **Version** | **Date** | **Description of Change** |
| 1 | 10/5/2017 | Preliminary draft of Test Plan Document |
| 2 | 12/7/2017 |  |

# **Introduction**

## **Purpose**

This test plan describes the testing approach and overall framework that will drive the testing of the CareAway Treatment Planner. The document introduces:

* Scenarios: illustrates different situations each component of our system may face during deployment
* Test Strategy: rules the test will be based on, including the givens of the project (e.g.:start/end dates, objectives, assumptions); description of the process to set up a valid test (e.g.: entry/exit criteria, creation of test cases, specific tasks to perform, scheduling, data strategy)

## **Project Overview**

The CareAway Treatment Planner is a communication, scheduling, and medical care tool allowing medical professionals to create online treatment plans which will be accessible by their patient in the comfort of their homes. The goal of this application will be to address the lack of communication between medical professionals and their patients. The CareAway Treatment Planner solves this problem by allowing a means of communication between patient and medical professional. From their homes, patients will have the ability to send feedback regarding the current treatment plan.

## **Audience**

The document is intended for the following audience:

Members of Team Tangent will be split into two groups, where one group will focus solely on development and the other will focus solely on quality assurance. Quality assurance will be overseen by the team’s designated QA Manager.

* The Development team will be utilizing the test plan in order to ensure that the components are made in line with design and client specifications. They will be responsible to undergo these test throughout the development of the system.
* The Quality Assurance team will ensure that each component/ service in our system meets the end user needs. They will carry out different test scenarios and record their satisfaction with each service they test.

## **Scope**

This document covers testing scenarios for the components of the CareAway Treatment Planner, which will be developed by the members of Team Tangent. The CareAway Treatment Planner is a single view application that will be tested on the following desktop browser(s):

Google Chrome v62.0.3202.94 (Current Version) as of 11/22/2017

Our team chose this browser as it is currently one of the most commonly used browsers and provides a multitude of debugging tools. Through each test scenario, we will analyze the components of the CareAway Treatment Planner on the newest released version of Google Chrome to ensure the functionality of the system.

In addition, our team will be testing the following CORE and Content business requirements:

**CORE Requirements**

* + Registration
  + Security
  + Authentication / Session Termination
  + User Access Control
  + Data Access
  + Error Handling
  + User Management
  + Network Communication

**Content Requirement**

* + Treatment Plan Creation/Revision
  + Interacting with Treatment Plan
  + Appointment Scheduling
  + Data Analysis Reports

Our team will provide the following tests to the corresponding CORE and Content business requirements:

* **End to End and Validation Testing**- to test if the component successfully fulfills the business requirement (refer to the Business Requirement Document for each requirement for further information), and to test if the component functions correctly from beginning to end under different scenarios. Our team will be testing the following requirements with this type of testing:

**Registration Scenarios**:

* Registering a Medical Professional
* Registering a Patient
* Invalid Registration inputs

**Authentication/Session Termination Scenarios**:

* Medical Professional, Patient and System Administrator Login/Log out
* Resetting Credentials
* Invalid Login Credentials
* Invalid Reset Credentials input

**Treatment Plan Creation/Revision Scenarios:**

* Setting Patient Diagnosis
* Creating/Editing a valid Checklist Widget
* Creating/Editing a valid Meter Widget
* Attempting to create an Invalid Treatment

**Interacting with Treatment Plan Scenarios:**

* Completing a task on a check list widget
* Complete the Meter Widget
* Attempt to change a value that’s not on the current date

**Appointment Scheduling Scenarios**

* Patient/Medical Professional creating an appointment
* Patient/Medical Professional attempting to create an invalid appointment
* Patient/Medical Professional accepting/declining an appointment

**Data Analysis Reports Scenarios**

* Generate Data Analysis Report with Patient Data
* Generate Data Analysis Report with no Patient Data
* **Unit Testing** - to test the functionalities of the system’s server side components in isolation. Each single component will be tested in isolation from other components, but after executing these tests, we expect each component to be able to integrate well with others in the system as a whole. Our team will be testing the following requirements under this test:

**Data Access Scenarios:**

* Medical Professional’s data
* Patient’s data

**User Management Scenarios:**

* Creating Medical Professional/Patients
* Editing their Credentials (Password)
* Creating/Terminating User Sessions

**Security Scenarios:**

* Sending Breach Notification Reports

**User Access Control Scenarios:**

* Medical Professional Access their functionalities (patient data, creating appointments, creating treatments)
* Patient Access to their functionalities (Completing their treatment plan, creating appointments)

**Error Handling Scenarios:**

* Inserting invalid data during Registration
* Inserting invalid data during Login
* Inserting invalid data during treatment creation
* Inserting invalid data for appointment request
* **Regression Testing** - Define each test case for a component if the component underwent a change during development. The component will be tested to see if it still functions from start to end as it is defined in the Business Requirement Document. The Regression Testing will use End to End Testing and may refer to end-to-end test(s) defined in the *End-to-End and Validation Testing* if the requirement was already defined there. Our team will be testing the following requirements under this test:

**Registration Scenarios**:

* Registering a Medical Professional
* Registering a Patient
* Invalid Registration inputs

**Authentication/Session Termination Scenarios**:

* Medical Professional, Patient and System Login/ Log out
* Resetting Credentials
* Invalid Login Credentials
* Invalid Reset Credentials input

**Treatment Plan Creation/Revision Scenarios:**

* Setting Patient Diagnosis
* Creating/Editing a valid Checklist Widget
* Creating/Editing a valid Meter Widget
* Attempting to create an Invalid Treatment

**Interacting with Treatment Plan Scenarios:**

* Completing a task on a check list widget
* Complete the Meter Widget
* Attempt to change a value that’s not on the current date

**Appointment Scheduling Scenarios:**

* Patient/Medical Professional creating an appointment
* Patient/Medical Professional attempting to create an invalid appointment
* Patient/Medical Professional accepting/declining an appointment

**Data Analysis Reports Scenarios:**

* Generate Data Analysis Report with Patient Data
* Generate Data Analysis Report with no Patient Data

**Data Access Scenarios:**

* Medical Professional’s data
* Patient’s data

**User Management Scenarios:**

* Creating Medical Professional/Patients
* Editing their Credentials (Password)
* Creating/Terminating User Sessions

**Security Scenarios:**

* Sending Breach Notification Reports

**User Access Control Scenarios:**

* Medical Professional Access their functionalities (patient data, creating appointments, creating treatments)
* Patient Access to their functionalities (Completing their treatment plan, creating appointments)

**Error Handling Scenarios:**

* Inserting invalid data during Registration
* Inserting invalid data during Login
* Inserting invalid data during treatment creation
* Inserting invalid data for appointment request

**Network Communication Scenarios:**

* Connecting to the CareAway application
* **Smoke Testing** - Smoke tests are a minimal set of tests run after each new build or code change. Smoke tests ensure that important features work or still work and there are no showstoppers in the build during testing. Our team will be testing the following requirements under this test:
* Medical Professional Registration and Login
* Patient Registration and Login
* Medical Professional Treatment Plan Creation and Appointment Scheduling Request
* Patient Treatment Plan Interaction and Appointment Scheduling Approval
* Medical Professional Data Analysis Report Generation

Though the construction and implementation of the system, our team will be conducting certain tests in order to ensure proper functionalities of each service. During the system construction, developers will follow *End-to-End and Validation Testing* to ensure that each test case scenario is properly addressed in code. *Unit Testing* will be used after *End-to-End and Validation Testing*. *Regression Testing* will be used if the component that has been integrated into the system receives a change due to some circumstance during the development of another component. *Smoke Testing* will be used after deployment for a quick sanity check to ensure we all components are functioning.

Our team will be limiting the amount of data we will be testing with due to time constraints. Our data pool will consist of:

* 1 System Administrator account
* 4 Medical Professional accounts
* 8 Patients accounts
* 7 Treatment Plans (Specified in each Test)
* 10 Appointments (Specified in each Test)

We will be limiting our accounts to a total of 13 user accounts in our system allowing our team to work with a variety of different accounts with different information. In addition, we will create 5 treatment plans and 5 appointments to test with in total for the system.

## **Test Data**

As stated above we will be limiting the amount of data we will be using for testing to the following data pool:

**1 System Administrator:**

* Username: TheChosenOne12
* Password: 777Lazer777

**4 Medical Professionals:**

***Note:*** The instances of the Medical Professional Code can be found on the Medical Professional’s account view and should be referred to when the Medical Professional Code is needed.

1. This Medical Professional is created during end to end testing and will persist throughout the rest of the test

* First Name: Jim
* Last Name: Raynor
* Username: C@reawayM24
* Password: Treatment$2017
* Security Question 1: Who was the company you first worked for?
* Answer 1: CareAway
* Security Question 2: What is your favorite song?
* Answer: Wake me up inside
* Security Question 3: What was the name of your first crush?
* Answer: Crystible
* Medical Professional Code: Randomly Generated (referred to as Jim Raynor’s MP Code)

2) This Medical Professional is created in unit testing and will persist during the rest of the testing phase

* First Name: Mediana
* Last Name: Maz
* Username: DoctorRemedy20
* Password: SpecialRemedy12
* Security Question 1: Who was the company you first worked for?
* Answer 1: Salvation Clinic
* Security Question 2: What is your favorite song?
* Answer: Party Rock
* Security Question 3: What was the name of your first crush?
* Answer: Poison
* Medical Professional Code: Randomly Generated (referred to as Mediana Maz’s MP Code)

3) This Medical Professional is created in Regression Testing and will persist during the rest of the test

* First Name: Tae
* Last Name: Takuro
* Username: ThePlague2017
* Password: Languid6Treatment5
* Security Question 1: Who was the company you first worked for?
* Answer 1: Yongen-Jaya Clinc
* Security Question 2: What is your favorite song?
* Answer: All Stars
* Security Question 3: What was the name of your first crush?
* Answer: Morgana
* Medical Professional Code: Randomly Generated (referred to as Tae Takuro’s MP Code)

4)This Medical Professional is created in smoke testing and will persist during the rest of the testing phase

* First Name: William
* Last Name: Wadswurth
* Username: IcareYoucare23
* Password: BeingCareful12
* Security Question 1: Who was the company you first worked for?
* Answer 1: LiveWell Care Clinic
* Security Question 2: What is your favorite song?
* Answer: Happy
* Security Question 3: What was the name of your first crush?
* Answer: Mediana
* Medical Professional Code: Randomly Generated (referred to as William Wadswurth’s MP Code)

**8 Patients:**

**Note: Patients 1 + 2 will be used in End to End and Validation Testing**

1. This patient is created during end to end testing and will persist throughout the rest of the test

* First Name: Tom
* Last Name: Nook
* Username: C@reawayP24
* Password: Treatment4Life
* Diagnostic: Diabetes
* Security Question 1: Who was the company you first worked for?
* Answer 1: Cemetery
* Security Question 2: What is your favorite song?
* Answer: Story of my life
* Security Question 3: What was the name of your first crush?
* Answer: Someone
* Medical Professional Code: Jim Raynor’s MP Code

2) This patient will be created after the Medical Professional Jim Raynor is created.

* First Name: Jerry
* Last Name: Seinfeld
* Username: CocoaCom87
* Password: speakermark1
* Diagnostic: Asthma
* Security Question 1: Who was the company you first worked for?
* Answer 1: Comedy Central
* Security Question 2: What is your favorite song?
* Answer: Falling Stars
* Security Question 3: What was the name of your first crush?
* Answer: Elaine
* Medical Professional Code: Jim Raynor’s MP Code

**Note: Patients 3 + 4 will be used in Unit Testing**

3)

* First Name: Garrett
* Last Name: Pauley
* Username: surferdude34
* Password: hang10bruh
* Diagnostic: Social Anxiety Disorder
* Security Question 1: Who was the company you first worked for?
* Answer 1: Island’s Burgers
* Security Question 2: What is your favorite song?
* Answer: Mahalo
* Security Question 3: What was the name of your first crush?
* Answer: Mekayla
* Medical Professional Code: Mediana Maz’s MP Code

4)

* First Name: Susan
* Last Name: Wang
* Username: pharamapro9226
* Password: all4one1forall
* Diagnostic: Generalized Anxiety Disorder
* Security Question 1: Who was the company you first worked for?
* Answer 1: CVS
* Security Question 2: What is your favorite song?
* Answer: Wildest Dreams
* Security Question 3: What was the name of your first crush?
* Answer: Abel
* Medical Professional Code: Mediana Maz’s MP Code

**Note: Patients 5 + 6 will be used in Regression Testing**

5)

* First Name: Cliff
* Last Name: Paul
* Username: StateFarmAgent1
* Password: lobcity3allday
* Diagnostic: High Blood Pressure
* Security Question 1: Who was the company you first worked for?
* Answer 1: State Farm
* Security Question 2: What is your favorite song?
* Answer: Love Story
* Security Question 3: What was the name of your first crush?
* Answer: Wendy
* Medical Professional Code: Tae Takuro’s MP Code

6)

* First Name: Charles
* Last Name: Xavier
* Username: professorX8
* Password: mindcontrolvision13
* Diagnostic: Panic Disorder
* Security Question 1: Who was the company you first worked for?
* Answer 1: Stater Bros
* Security Question 2: What is your favorite song?
* Answer: Sexy and I know It
* Security Question 3: What was the name of your first crush?
* Answer: Raven
* Medical Professional Code: Tae Takuro’s MP Code

**Note: Patients 7 + 8 will be used in Smoke Testing**

7)

* First Name: Perry
* Last Name: Arbuckle
* Username: perrybuckle86
* Password: Prerunner4Runner
* Diagnostic: Diabetes
* Security Question 1: Who was the company you first worked for?
* Answer 1: Toyota
* Security Question 2: What is your favorite song?
* Answer: Knocks You Down
* Security Question 3: What was the name of your first crush?
* Answer: Charlotte
* Medical Professional Code: William Wadswurth’s MP Code

8)

* First Name: Leanna
* Last Name: Perez
* Username: macncheese77
* Password: iloveshoes1
* Diagnostic: Asthma
* Security Question 1: Who was the company you first worked for?
* Answer 1: Old Navy
* Security Question 2: What is your favorite song?
* Answer: The Chronic
* Security Question 3: What was the name of your first crush?
* Answer: Marcus
* Medical Professional Code: William Wadswurth’s MP Code

# 

# 

# **End to End and Validation Testing**

The team will be conducting *End-to-End and Validation Testing* for Registration, Authentication/Session Termination, Treatment Plan Creation, Interacting with Treatment Plan, Appointment Scheduling and Data Analysis Reports. The purpose of end-to-end testing is to test the flow of our web application, from start to finish, and ensure that the integrated components of our application function within our expectations. In addition, the team will be conducting validation testing in order to ensure that our business rules and client specification are met for each of our application’s components.

## **Test Data**

The Medical Professional will be created during the Registration End-to-End Testing

Medical Professional 1) (will be created during the registration end to end testing)

* First Name: Jim
* Last Name: Raynor
* Username: C@reawayM24
* Password: Treatment$2017
* Security Question 1: Who was the company you first worked for?
* Answer 1: CareAway
* Security Question 2: What is your favorite song?
* Answer: Wake me up inside
* Security Question 3: What was the name of your first crush?
* Answer: Crystible
* Medical Professional Code: Randomly Generated (referred to as Jim Raynor’s MP Code)

The Patient will be created during the Registration End-to-End Testing

Patient 1)

* First Name: Tom
* Last Name: Nook
* Username: C@reawayP24
* Password: Treatment4Life
* Diagnostic: Diabetes
* Security Question 1: Who was the company you first worked for?
* Answer 1: Cemetery
* Security Question 2: What is your favorite song?
* Answer: Story of my life
* Security Question 3: What was the name of your first crush?
* Answer: Someone
* Medical Professional Code: Jim Raynor’s MP Code

Patient 2)

* First Name: Jerry
* Last Name: Seinfeld
* Username: CocoaCom87
* Password: speakermark1
* Diagnostic: Asthma
* Security Question 1: Who was the company you first worked for?
* Answer 1: Comedy Central
* Security Question 2: What is your favorite song?
* Answer: Falling Stars
* Security Question 3: What was the name of your first crush?
* Answer: Elaine
* Medical Professional Code: Jim Raynor’s MP Code

## **Test Case Definitions**

*Scenario* - This refers to the current scenario of the component the tester will be evaluating

*Execution Strategy* - This refers to the steps that the tester will have to go through to perform verification and validation of the component. These steps are meant to be followed in the order they are written.

*Test Entry Criteria* - This refers to any preconditions that will have to be setup before the tester performs any of the actions in the Execution Strategy.

*End to End Test Pass Criteria* - This refers to the benchmark by which the component will be tested against. The tester must see and be able to reproduce all of the items listed in this section while performing the Execution Strategy. Otherwise, the component will have failed and must be fixed.

*Validation Test Pass Criteria* - This refers to the benchmark by which the component will be tested against. The tester must see if the component meets the business rules and client specifications that were specified in the Business Requirement Document. Otherwise, the component will have failed and must be fixed.

*Test Exit Criteria* - This refers to the condition by which the test concludes. However, for the test to conclude, the tester must see and be able to reproduce all of the items listed in the Test Pass Criteria section.

*End to End* *Test Fail Criteria* - This refers to the condition by which the component will be deemed a failure for End to End testing. If the tester sees any of these conditions, the component will have failed and must be fixed.

*Validation* *Test Fail Criteria* - This refers to the condition by which the component will be deemed a failure for Validation testing. If the tester sees any of these conditions, the component will have failed and must be fixed.

## **Registration**

The following scenarios will begin in sequential order. All subsequent scenarios will be tested with the data that has been inputted from previous scenarios (if any were inputted).

Registration Scenario: In scenarios where invalid data is used, valid data for the other fields are input. Valid registration criteria can be found in the Registration business requirement description on view 19 - 20 of the Business Requirements Document.

SET A)

1. Medical Professional Registration - invalid First name
2. Medical Professional Registration- invalid Last name
3. Medical Professional Registration - invalid security answers
4. Medical Professional Registration - invalid password
5. Medical Professional Registration - invalid username
6. Medical Professional Registration - valid data for all fields
7. Medical Professional Registration - input the same username, password and security answers as test 6

SET B)

1. Patient - invalid First name
2. Patient - invalid Last name
3. Patient - invalid Medical Professional code
4. Patient - invalid security answers
5. Patient - invalid password
6. Patient - invalid username
7. Patient - did not check the authorization boxes
8. Patient - all valid data
9. Patient - input the same username, password, security answers and medical professional code as test 14

Data per Scenario:

**Scenario 1)** Empty database

**Scenario 2 , 3 , 4 , 5, 6)** Data for Medical Professional

* First Name: Jim
* Last Name: Raynor
* Username: C@reawayM24
* Password: Treatment$2017
* Security Question 1: Who was the company you first worked for?
* Answer 1: CareAway
* Security Question 2: What is your favorite song?
* Answer: Wake me up inside
* Security Question 3: What was the name of your first crush?
* Answer: Crystible
* Medical Professional Code: Randomly Generated (referred to as Jim Raynor’s MP Code)

**Scenario 7, 8 , 9 , 10 , 11)**

Starts with Medical Professional Data

First Name: Jim

Last Name: Raynor

Username- “C@reawayM24”

Password- “Treatment$2017”

Security Question 1: Who was the company you first worked for?

Answer 1: CareAway

Security Question 2: What’s your favorite song?

Answer 2: Wake me up inside

Security Question 3: What was the name of your first crush?

Answer 3: Crystible

Starts with Patient Data

* First Name: Tom
* Last Name: Nook
* Username: C@reawayP24
* Password: Treatment4Life
* Diagnostic: Diabetes
* Security Question 1: Who was the company you first worked for?
* Answer 1: Cemetery
* Security Question 2: What is your favorite song?
* Answer: Story of my life
* Security Question 3: What was the name of your first crush?
* Answer: Someone
* Medical Professional Code: Jim Raynor’s MP Code

Set A)

|  |  |
| --- | --- |
| Scenario: 1 | Medical Professional Registration- invalid First Name |
| Execution Strategy: | 1. Enter “Jim123123” in First Name Field 2. Enter “Raynor” in Last Name Field 3. Enter “C@reawayM24” in Username Field 4. Enter “Treatment$2017” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “CareAway” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Wake me up inside” as the answer for security question 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Crystible” as the answer for security question 3 11. Submit inputted data |
| Pre-  Condition | The database has a warm start. The system admin data has already been inputted into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter a valid First Name |
| Validation Test Pass Criteria | 1. Medical professional is not able to proceed with registration until they provide a valid First Name |
| Post-  Condition | The medical professional is returned to the registration form and prompted of invalid first name. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the account view 3. Medical Professional is not prompted to provide a valid First name |
| Validation Test Fail Criteria | 1. Medical professional gains credentials without having entered a valid First name. |

|  |  |
| --- | --- |
| Scenario: 2 | Medical Professional Registration- invalid Last name |
| Execution Strategy: | 1. Enter “Jim” in First Name Field 2. Enter “Raynor714” in Last Name Field 3. Enter “C@reawayM24” in Username Field 4. Enter “Treatment$2017” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “CareAway” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Wake me up inside” as the answer for security question 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Crystible” as the answer for security question 3 11. Submit inputted data |
| Pre-  Condition | The database has a warm start. The system admin data has already been inputted into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter a valid last name |
| Validation Test Pass Criteria | 1. Medical professional is not able to proceed with registration until they enter a valid last name. |
| Post-  Condition | The medical professional is returned to the registration form and prompted of invalid last name input. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the account view 3. Medical Professional is not prompted to provide a valid last name |
| Validation Test Fail Criteria | 1. Medical professional gains credentials without having entered a valid last name |

|  |  |
| --- | --- |
| Scenario: 3 | Medical Professional Registration- invalid security answers |
| Execution Strategy: | 1. Enter “Jim” in First Name Field 2. Enter “Raynor” in Last Name Field 3. Enter “C@reawayM24” in Username Field 4. Enter “Treatment$2017” in Password Field 5. Submit inputted data without answering security questions |
| Pre-  Condition | The database has a warm start. The system admin data has already been inputted into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter security answers |
| Validation Test Pass Criteria | 1. Medical professional is not able to proceed with registration until they answer security questions. |
| Post-  Condition | The medical professional is returned to the registration form and prompted of invalid security question answers. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the account view 3. Medical Professional is not prompted to fill out security questions |
| Validation Test Fail Criteria | 1. Medical professional gains credentials without having entered security questions. |

|  |  |
| --- | --- |
| Scenario: 4 | Medical Professional Registration - invalid password |
| Execution Strategy: | 1. Enter “Jim” in First Name Field 2. Enter “Raynor” in Last Name Field 3. Enter “C@reawayM24” in Username Field 4. Enter “Treatment” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “CareAway” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Wake me up inside” as the answer for security 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter Crystible as the answer for security question 3 11. Submit inputted data |
| Pre-  Condition | The database has a warm start. The system admin data has already been inputted into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter a different password that meets the criteria for a valid password |
| Validation Test Pass Criteria | 1. Medical professional is not able to proceed with registration until they enter a valid password. |
| Post-  Condition | The medical professional is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the account view 3. Medical Professional is not prompted to enter a different password |
| Validation Test Fail Criteria | 1. Medical professional gains credentials without having entered a valid password. |

|  |  |
| --- | --- |
| Scenario: 5 | Medical Professional Registration - invalid username |
| Execution Strategy: | 1. Enter “Jim” in First Name Field 2. Enter “Ray” in Last Name Field 3. Enter “C@reawayM” in Username Field 4. Enter “Treatment$2017” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “Allscripts” as the answer for security 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Wake me up inside” as the answer for security question 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Crystible” as the answer for security 3 11. Submit inputted data |
| Pre-  Condition | The database has a warm start. The system admin data has already been inputted into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter a different username that meets the criteria for a valid username |
| Validation Test Pass Criteria | 1. Medical professional is not able to proceed with registration until they enter a valid username. |
| Post-  Condition | The medical professional is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the account view 3. Medical Professional is not prompted to enter a different username |
| Validation Test Pass Criteria | 1. Medical professional gains credentials without having entered a valid username. |

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| Scenario: 6 | Medical Professional Registration - valid data for all fields |
| Execution Strategy: | 1. Enter “Jim” in First Name Field 2. Enter “Raynor” in Last Name Field 3. Enter “C@reawayM24” in Username Field 4. Enter “Treatment$2017” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “CareAway” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Wake me up inside” as the answer for security question 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Crystible” as the answer for security question 3 11. Submit inputted data |
| Pre-  Condition | The database has a warm start. The system admin data has already been inputted into the system |
| End to End Test Pass Criteria | 1. All submitted data is saved onto the Medical Professional database 2. Medical Professional prompted they have been registered 3. Medical Professional is redirected to their account view |
| Validation Test Pass Criteria | 1. Medical professional now has valid credentials they can use in order to access their account |
| Post-  Condition | The medical professional is redirected to their account view |
| End to End Test Fail Criteria | 1. Database saved incorrect information/no information 2. Medical Professional is not prompted that they have been registered 3. Medical Professional is redirected to a view other than their account view/not redirected at all. |
| Validation Test Fail Criteria | 1. Medical professional does not gain any valid credentials to access account with. |

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| Scenario: 7 | Medical Professional Registration - input the same username, password and security answers as test 6 |
| Execution Strategy: | 1. Enter “Jim” in First Name Field 2. Enter “Raynor” in Last Name Field 3. Enter “C@reawayM24” in Username Field 4. Enter “Treatment$2017” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “CareAway” as the answer for security 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Wake me up inside” as the answer for security 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Crystible” as the answer for security 3 11. Submit inputted data |
| Pre-  Condition | The Medical Professional database has a warm start (request has been sent) and the Medical Professional Jim Raynor has been registered into the system. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter a different username as the one he entered is already taken |
| Validation Test Pass Criteria | 1. Medical professional is not able to proceed with registration until they enter a unique username. |
| Post-  Condition | The medical professional is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the account view 3. Medical Professional is not prompted to enter a different username |
| Validation Fail Pass Criteria | 1. Medical professional gains credentials to access the system |

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| Scenario: 8 | Patient - invalid First name |
| Execution Strategy: | 1. Enter “Tom69” in First Name Field 2. Enter “Nook” in Last Name Field 3. Enter “C@reawayP24” in Username Field 4. Enter “Treatment4Life” in Password Field 5. Enter *Jim Raynor’s MP Code* in Medical Professional code Field 6. Pick “Who was the company you first worked for?” for security question 1 7. Enter “Cemetery” as the answer for security question 1 8. Pick “What’s your favorite song?” for security question 2 9. Enter “Story of my life” as the answer for security question 2 10. Pick “What was the name of your first crush?” For security question 3 11. Enter “Someone” as the answer for security question 3 12. Submit inputted data |
| Pre-  Condition | The database has a warm start and the Medical Professional Jim Raynor has been registered into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a valid First Name |
| Validation Test Pass Criteria | 1. Patient is not able to proceed with registration until they enter a valid First Name. |
| Post-  Condition | The patient is returned to the registration form |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to enter a different first name |
| Validation Test Fail Criteria | 1. Patient gains credentials without having entered a valid first name. |

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| Scenario: 9 | Patient - invalid Last name |
| Execution Strategy: | 1. Enter “Tom” in First Name Field 2. Enter “Nook456” in Last Name Field 3. Enter “C@reawayP24” in Username Field 4. Enter “Treatment4Life” in Password Field 5. Enter *Jim Raynor’s MP Code* in Medical Professional code Field 6. Pick “Who was the company you first worked for?” for security question 1 7. Enter “Cemetery” as the answer for security 1 8. Pick “What’s your favorite song?” for security question 2 9. Enter “Story of my life” as the answer for security 2 10. Pick “What was the name of your first crush?” for security question 3 11. Enter “Someone” as the answer for security question 3 12. Submit inputted data |
| Pre-  Condition | The database has a warm start and the Medical Professional Jim Raynor has been registered into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a different last name that fits the criteria for a valid last name |
| Validation Test Pass Criteria | 1. Patient is not able to proceed with registration until they enter a valid last name. |
| Post-  Condition | The patient is returned to the registration form |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to enter a different last name |
| Validation Test Fail Criteria | 1. Patient gains credentials without having entered a valid last name. |

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| Scenario: 10 | Patient - invalid Medical Professional code |
| Execution Strategy: | 1. Enter “Tom” in First Name Field 2. Enter “Nook” in Last Name Field 3. Enter “C@reawayP24” in Username Field 4. Enter “Treatment4Life” in Password Field 5. Enter *0000000000000* in Medical Professional code Field 6. Pick “Who was the company you first worked for?” for security question 1 7. Enter “Cemetery” as the answer for security question 1 8. Pick “What’s your favorite song?” for security question 2 9. Enter “Story of my life” as the answer for security question 2 10. Pick “What was the name of your first crush?” For security question 3 11. Enter “Someone” as the answer for security question 3 12. Submit inputted data |
| Pre-  Condition | The database has a warm start and the Medical Professional Jim Raynor has been registered into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted their Medical Professional code is invalid |
| Validation Test Pass Criteria | 1. Patient is not able to proceed with registration until they enter a valid Medical Professional code. |
| Post-  Condition | The Patient is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is not prompted their Medical Professional code is invalid 3. Patient is redirected to the account view |
| Validation Test Fail Criteria | 1. Patient gains credentials without having entered a valid Medical Professional code. |

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| Scenario: 11 | Patient - invalid security answers |
| Execution Strategy: | 1. Enter “Tom69” in First Name Field 2. Enter “Nook” in Last Name Field 3. Enter “C@reawayP24” in Username Field 4. Enter “Treatment4Life” in Password Field 5. Enter *Jim Raynor’s MP Code* in Medical Professional code Field 6. Submit inputted data without answering security questions |
| Pre-  Condition | The database has a warm start and the Medical Professional Jim Raynor has been registered into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter security answers |
| Validation Test Pass Criteria | 1. Patient is not able to proceed with registration until they answer security questions. |
| Post-  Condition | The Patient is returned to the registration form |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to fill out security questions |
| Validation Test Fail Criteria | 1. Patient gains credentials without having answered the security questions. |

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| Scenario: 12 | Patient - invalid password |
| Execution Strategy: | 1. Enter “Tom” in First Name Field 2. Enter “Nook” in Last Name Field 3. Enter “C@reawayP24” in Username Field 4. Enter “0987987” in Password Field 5. Enter *Jim Raynor’s MP Code* in Medical Professional code Field 6. Pick “Who was the company you first worked for?” for security question 1 7. Enter “Cemetery” as the answer for security question 1 8. Pick “What’s your favorite song?” for security question 2 9. Enter “Story of my life” as the answer for security question 2 10. Pick “What was the name of your first crush?” For security question 3 11. Enter “Someone” as the answer for security question 3 12. Submit inputted data |
| Pre-  Condition | The database has a warm start and the Medical Professional Jim Raynor has been registered into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a different password that fits the criteria for a valid password |
| Validation Test Pass Criteria | 1. Patient is not able to proceed with registration until they enter a valid password. |
| Post-  Condition | The Patient is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to enter a different password |
| Validation Test Pass Criteria | 1. Patient gains credentials without having entered a valid password. |

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| Scenario: 13 | Patient - invalid username |
| Execution Strategy: | 1. Enter “Tom” in First Name Field 2. Enter “Nook” in Last Name Field 3. Enter “4” in Username Field 4. Enter “Treatment4Life” in Password Field 5. Enter *Jim Raynor’s MP Code* in Medical Professional code Field 6. Pick “Who was the company you first worked for?” for security question 1 7. Enter “Cemetery” as the answer for security question 1 8. Pick “What’s your favorite song?” for security question 2 9. Enter “Story of my life” as the answer for security question 2 10. Pick “What was the name of your first crush?” For security question 3 11. Enter “Someone” as the answer for security question 3 12. Submit inputted data |
| Pre-  Condition | The database has a warm start and the Medical Professional Jim Raynor has been registered into the system |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a different username that fits the criteria for a valid username |
| Validation Test Pass Criteria | 1. Patient is not able to proceed with registration until they enter a valid username. |
| Post-  Condition | The patient is returned to the registration form |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to enter a different username |
| Validation Test Fail Criteria | 1. Patient gains credentials without having entered a valid username. |

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| Scenario: 14 | Patient - all valid data |
| Execution Strategy: | 1. Enter “Tom” in First Name Field 2. Enter “Nook” in Last Name Field 3. Enter “C@reawayP24” in Username Field 4. Enter “Treatment4Life” in Password Field 5. Enter *Jim Raynor’s MP Code* in Medical Professional code Field 6. Pick “Who was the company you first worked for?” for security question 1 7. Enter “Cemetery” as the answer for security question 1 8. Pick “What’s your favorite song?” for security question 2 9. Enter “Story of my life” as the answer for security question 2 10. Pick “What was the name of your first crush?” For security question 3 11. Enter “Someone” as the answer for security question 3 12. Submit inputted data |
| Pre-  Condition | The database has a warm start and the Medical Professional Jim Raynor has been registered into the system |
| End to End Test Pass Criteria | 1. All submitted Data is saved onto the database 2. Patient prompted they have been registered 3. Patient is redirected to their account view |
| Validation Test Pass Criteria | 1. Patient now has valid credentials they can use in order to access their data. |
| Post-  Condition | The Patient is redirected to their account view |
| End to End Test Fail Criteria | 1. Database saved incorrect information/no information 2. Patient is not prompted that they have been registered 3. Patient is not redirected to their account view |
| Validation Test Fail Criteria | 1. Patient does not gain any valid credentials to access data with. |

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| Scenario: 15 | Patient - input the same username, password, security answers and medical professional code as test 14 |
| Execution Strategy: | 1. Enter “Tom” in First Name Field 2. Enter “Nook” in Last Name Field 3. Enter “C@reawayP24” in Username Field 4. Enter “Treatment4Life” in Password Field 5. Enter *Jim Raynor’s MP Code* in Medical Professional code Field 6. Pick “Who was the company you first worked for?” for security question 1 7. Enter “Cemetery” as the answer for security question 1 8. Pick “What’s your favorite song?” for security question 2 9. Enter “Story of my life” as the answer for security question 2 10. Pick “What was the name of your first crush?” For security question 3 11. Enter “Someone” as the answer for security question 3 12. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent) and the patient Tom Nook and the medical professional Jim Raynor has been registered. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a different username |
| Validation Test Pass Criteria | 1. Patient is not able to proceed with registration until they enter a unique username. |
| Post-  Condition | The patient is returned to the registration form |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to enter a different username |
| Validation Test Fail Criteria | 1. Patient gains credentials without having entered a unique username. |

## **Authentication/Session Termination**

The following scenarios will begin in sequential order. All subsequent scenarios will be tested with the data that has been inputted from previous scenarios (if any were inputted).

Authentication/Session Termination Scenario:

Set A)

1. Medical Professional - Successful Authentication
2. Medical Professional - valid username, invalid password
3. Medical Professional - invalid username

Set B)

1. Patient - Successful Authentication
2. Patient - valid username, wrong password
3. Patient - invalid username

Set C)

1. System Admin - Successful Authentication
2. System Admin valid username, wrong password
3. System Admin - invalid username

Set D)

1. User on "Forgot Password view" : input invalid username
2. User on "Forgot Password view" : input valid username, invalid security questions
3. User can access "Forgot Password view" : input valid username, and valid security question
4. "Forgot Password view" : passwords don't match
5. "Forgot Password view" : passwords match

Set E)

1. User selects "Logout"
2. User inactive for 15 minutes, prompt displays for 2 minutes
3. User inactive for 15 minutes, prompt displays for less than 2 minutes.

Data per Scenario:

**Scenario 1,2,3)**

Starts with Medical Professional Data in Medical Professional Database:

First Name: Jim

Last Name: Raynor

Username: C@reawayM24

Password: Treatment$2017

Security Question 1: Who was the company you first worked for?

Answer 1: CareAway

Security Question 2: What is your favorite song?

Answer: Wake me up Inside

Security Question 3: What was the name of your first crush?

Answer: Crystible

Medical Professional Code: Randomly Generated (referred to as Jim Raynor’s MP Code)

**Scenario 4,5,6)**

Starts with Patient Data in the Patient Database

First name- Tom

Last name- Nook

Username- “C@reawayP24”

Password- “Treatment4Life”

Medical Professional Code- Jim Raynor’s MP code

Security Question 1: Who was the company you first worked for?

Answer 1: Cemetery

Security Question 2: Who was the company you first worked for?

Answer 2: Story of my life

Security Question 3: What was the name of your first crush?

Answer 3: Someone

**Scenario 7,8,9)**

Starts with System Admin Data in the System Admin Database

Username- “TheChosenOne”

Password- “777Lazer777”

**Scenario 10,11,12,13,14,15,16,17)**

Starts with Medical Professional Data

First Name: Jim

Last Name: Raynor

Username: C@reawayM24

Password: Treatment$2017

Security Question 1: Who was the company you first worked for?

Answer 1: CareAway

Security Question 2: What is your favorite song?

Answer: Wake me up Inside

Security Question 3: What was the name of your first crush?

Answer: Crystible

Medical Professional Code: Randomly Generated (referred to as Jim Raynor’s MP Code)

Starts with Patient Data

First Name- Tom

Last Name- Nook

Username- “C@reawayP24”

Password- “Treatment4Life”

Medical Professional Code: Jim Raynor’s MP Code

Security Question 1: Who was the company you first worked for?

Answer 1: Cemetary

Security Question 2: Who was the company you first worked for?

Answer 2: Story of my life

Security Question 3: What was the name of your first crush?

Answer 3: Someone

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| Scenario: 1 | Medical Professional Successful Authentication |
| Execution Strategy: | 1. Enter “C@reawayM24” in Username Field 2. Enter “Treatment$2017” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start and the medical professional Jim Raynor, and Patient Tom Nook have been registered into the system. |
| End to End Test Pass Criteria | 1. Medical Professional is redirected to their account view |
| Validation Test Pass Criteria | 1. Medical Professional is on their account view. 2. Medical Professional has access to the system. |
| Post-  Condition | The Medical Professional is redirected to their account view. |
| End to End Test Fail Criteria | 1. Medical Professional was not redirected to their account view |
| Validation Test Fail Criteria | 1. Medical Professional is not on their account view. 2. Medical Professional did not gain access to the system. |

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| Scenario: 2 | Medical Professional - valid username, wrong password |
| Execution Strategy: | 1. Enter “C@reawayM24” in Username Field 2. Enter “Treatment$$$$” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start and the medical professional Jim Raynor, and Patient Tom Nook have been registered into the system. |
| End to End Test Pass Criteria | 1. Medical Professional is prompted they inputted incorrect information |
| Validation Test Pass Criteria | 1. Medical Professional did not proceed through authentication. 2. Medical Professional did not gain access to the system. |
| Post-  Condition | The Medical Professional stays on the authentication form. |
| End to End Test Fail Criteria | 1. Medical Professional was redirected to their account view 2. Medical Professional was not prompted they put incorrect information |
| Validation Test Fail Criteria | 1. Medical Professional was successfully authenticated. 2. Medical Professional gained access to the system. |

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| Scenario: 3 | Medical Professional - invalid username |
| Execution Strategy: | 1. Enter “C@reaway4life” in Username Field 2. Enter “Treatment$2017” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start and the medical professional Jim Raynor, and Patient Tom Nook have been registered into the system. |
| End to End Test Pass Criteria | 1. Medical Professional is prompted they inputted incorrect information |
| Validation Test Pass Criteria | 1. Medical Professional did not proceed through authentication. 2. Medical Professional did not gain access to the system. |
| Post-  Condition | The Medical Professional stays on the authentication form. |
| End to End Test Fail Criteria | 1. Medical Professional was redirected to their account view 2. Medical Professional was not prompted they put incorrect information |
| Validation Test Fail Criteria | 1. Medical Professional was successfully authenticated. 2. Medical Professional gained access to the system. |

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| Scenario: 4 | Patient Successful Authentication |
| Execution Strategy: | 1. Enter” C@reawayP24” in Username Field 2. Enter “Treatment4Life” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start and the medical professional Jim Raynor, and Patient Tom Nook have been registered into the system. |
| End to End Test Pass Criteria | 1. Patient is redirected to their account view |
| Validation Test Pass Criteria | 1. Patient is on their account view. 2. Patient has access to the system. |
| Post-  Condition | The Patient is redirected to their account view |
| End to End Test Fail Criteria | 1. Patient was not redirected to their account view |
| Validation Test Fail Criteria | 1. Patient is not on their account view. 2. Patient did not gain access to the system. |

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| Scenario: 5 | Patient- valid username, wrong password |
| Execution Strategy: | 1. Enter “C@reawayP24” in Username Field 2. Enter “4” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start and the medical professional Jim Raynor, and Patient Tom Nook have been registered into the system. |
| End to End Test Pass Criteria | 1. Patient is prompted they inputted incorrect information |
| Validation Test Pass Criteria | 1. Patient did not proceed through authentication. 2. Patient did not gain access to the system. |
| Post-  Condition | The Patient stays on the authentication form. |
| End to End Test Fail Criteria | 1. Patient was redirected to their account view 2. Patient was not prompted they put incorrect information |
| Validation Test Fail Criteria | 1. Patient was successfully authenticated. 2. Patient gained access to the system. |

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| Scenario: 6 | Patient - invalid username |
| Execution Strategy: | 1. Enter “Jerry” in Username Field 2. Enter “Treatment4Life” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start and the medical professional Jim Raynor, and Patient Tom Nook have been registered into the system. |
| End to End Test Pass Criteria | 1. Patient is prompted they inputted incorrect information |
| Validation Test Pass Criteria | 1. Patient did not proceed through authentication. 2. Patient did not gain access to the system. |
| Post-  Condition | The Patient stays on the authentication form |
| End to End Test Fail Criteria | 1. Patient was redirected to their account view 2. Patient was not prompted they put incorrect information |
| Validation Test Fail Criteria | 1. Patient was successfully authenticated. 2. Patient gained access to the system. |

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| Scenario: 7 | System Admin Successful Authentication |
| Execution Strategy: | 1. Enter “TheChosenOne12” in Username Field 2. Enter “777Lazer777” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start and the system administrator have been registered into the system. |
| End to End Test Pass Criteria | 1. System Admin is redirected to their account view |
| Validation Test Pass Criteria | 1. System Admin is on their account view. 2. System Admin has access to the system. |
| Post-  Condition | The System Admin is redirected to their account view. |
| End to End Test Fail Criteria | 1. System admin was not redirected to their account view |
| Validation Test Fail Criteria | 1. System Admin is not on their account view. 2. System Admin did not gain access to the system. |

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| Scenario: 8 | System Admin - valid username, wrong password |
| Execution Strategy: | 1. Enter “TheChosenOne12” in Username Field 2. Enter “treat4me” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start and the system administrator have been registered into the system. |
| End to End Test Pass Criteria | 1. System Admin is prompted they inputted incorrect information |
| Validation Test Pass Criteria | 1. System Admin did not proceed through authentication. 2. System Admin did not gain access to the system. |
| Post-  Condition | The System Admin stays on the authentication form. |
| End to End Test Fail Criteria | 1. System Admin was redirected to their account view 2. System Admin was not prompted they put incorrect information |
| Validation Test Fail Criteria | 1. System Admin was successfully authenticated. 2. System Admin gained access to the system. |

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| Scenario: 9 | System Admin - invalid username |
| Execution Strategy: | 1. Enter “C@reawaySA24” in Username Field 2. Enter “Treatment4Life” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start and the system administrator have been registered into the system. |
| End to End Test Pass Criteria | 1. System Admin is prompted they inputted incorrect information |
| Validation Test Pass Criteria | 1. System Admin did not proceed through authentication. 2. System Admin did not gain access to the system. |
| Post-  Condition | The System Admin stays on the authentication form |
| End to End Test Fail Criteria | 1. System Admin was redirected to their account view 2. System Admin was not prompted they put incorrect information |
| Validation Test Fail Criteria | 1. System Admin was successfully authenticated. 2. System Admin gained access to the system. |

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| Scenario: 10 | Forgot Password view - invalid username |
| Execution Strategy: | 1. Go to Forgot Password view 2. Enter “Eminem” in Username Field 3. Submit inputted data |
| Pre-  Condition | The accounts for Jim Raynor and Tom Nook have already been created. |
| End to End Test Pass Criteria | 1. User is prompted they input an invalid username and cannot proceed. |
| Validation Test Pass Criteria | 1. User is prompted they provided an invalid username and are redirected to input their username again. |
| Post-  Condition | User stays on the Enter Username view. |
| End to End Test Fail Criteria | 1. User is not prompted to enter a new password |
| Validation Test Fail Criteria | 1. Username is recognized as verified and moves to enter in security questions despite invalid username. |

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| Scenario: 11 | Forgot Password view - valid username, invalid security questions answers |
| Execution Strategy: | 1. Go to “Forgot Password view” 2. Enter “C@reawayM24” in Username Field 3. Enter“Molina Healthcare” as the answer for security question (What was the first company you worked for?) 4. Enter “Wake me up inside again” as the answer for security question (What is your favorite song?) 5. Enter “Jeff” as the answer for security question (What was the name of your first crush?) 6. Submit inputted data |
| Pre-  Condition | The accounts for Jim Raynor and Tom Nook have already been created. |
| End to End Test Pass Criteria | 1. User is prompted that the security question answers are invalid |
| Validation Test Pass Criteria | 1. User does not proceed through the Enter Security Question view. 2. User is notified that their security question answers are wrong |
| Post-  Condition | User stays on the Enter Security Question view. |
| End to End Test Fail Criteria | 1. User is shown the fields to enter a new password |
| Validation Test Fail Criteria | 1. User proceeds through the Enter new password view with these invalid credentials. |

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| Scenario: 12 | Forgot Password view - valid username, valid security questions |
| Execution Strategy: | 1. Go to “Forgot Password view” 2. Enter “C@reawayM24” in Username Field 3. Enter “CareAway” as the answer for security question (What was the first company you worked for?) 4. Enter “Wake me up inside” as the answer for security question (What is your favorite song?) 5. Enter “Crystible” as the answer for security question (What was the name of your first crush?) 6. Submit inputted data |
| Pre-  Condition | The accounts for Jim Raynor and Tom Nook have already been created. |
| End to End Test Pass Criteria | 1. User is shown the fields to enter a new password |
| Validation Test Pass Criteria | 1. User is redirected to input a new password |
| Post-  Condition | User redirected to input a new password. |
| End to End Test Fail Criteria | 1. User is not redirected to input a new password 2. User was prompted that their credentials were invalid |
| Validation Test Pass Criteria | 1. User is not redirected to input a new password 2. User was prompted that their credentials were invalid |

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| Scenario: 13 | Forgot Password view - passwords don’t match |
| Execution Strategy: | 1. Enter “New@pass42” in New Password Field 2. Enter “ohno74” in Enter Password Again Field 3. Submit inputted data |
| Pre-  Condition | The accounts for Jim Raynor and Tom Nook have already been created. The Medical Professional has successfully input correct information to verify himself for Forgot My Password. |
| End to End Test Pass Criteria | 1. User is prompted that the passwords don’t match |
| Validation Test Pass Criteria | 1. User’s password is not reset. 2. User does not proceed through authentication form. |
| Post-  Condition | User stays on the Reset Password view. |
| End to End Test Fail Criteria | 1. Database is changed despite invalid data 2. User is redirected to the authentication form 3. User is not prompted that the passwords don’t match |
| Validation Test Fail Criteria | 1. User’s password resets. 2. User proceeds through authentication form. |

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| Scenario: 14 | Forgot Password view - passwords match |
| Execution Strategy: | 1. Enter “New@pass42” in New Password Field 2. Enter “New@pass42” in Enter Password Again Field 3. Submit inputted data |
| Pre-  Condition | The accounts for Jim Raynor and Tom Nook have already been created. The Medical Professional has successfully input correct information to verify himself for Forgot My Password. view. |
| End to End Test Pass Criteria | 1. User’s password is changed and saved on the database 2. User is redirected to the authentication form 3. User is prompted that their password has successfully changed |
| Validation Test Pass Criteria | 1. User has successfully reset their password. |
| Post-  Condition | User is redirected to the authentication form. |
| End to End Test Fail Criteria | 1. Password was not changed in the database 2. User is not redirected to the authentication form 3. User is not prompted that their password has changed |
| Validation Test Fail Criteria | 1. User’s password has not been reset. |

Set E)

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| Scenario: 15 | User selects “Logout” |
| Execution Strategy: | 1. Select “Logout” |
| Pre-  Condition | User is logged in to the system. |
| End to End Test Pass Criteria | 1. Session is terminated 2. User is redirected to the Authentication View |
| Validation Test Pass Criteria | 1. User’s session is terminated. 2. User cannot access the system again unless they provide their credentials again. |
| Post-  Condition | User is redirected to the authentication view. |
| End to End Test Fail Criteria | 1. Session is not terminated 2. User is not redirected to the authentication view |
| Validation Test Fail Criteria | 1. User’s session doesn’t terminate. 2. User still has access to the system without needing to re-provide credentials. |

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| Scenario: 16 | User inactive for 15 minutes, prompt displays for 2 minutes |
| Execution Strategy: | 1. Don’t make any inputs for 17 minutes. |
| Pre-  Condition | User is logged in to the system. |
| End to End Test Pass Criteria | 1. Message appears prompting the user if they are still active on the screen 2. Session is terminated 3. User is redirected to the Authentication View |
| Validation Test Pass Criteria | 1. User’s session is terminated from inactivity. 2. User cannot access the system again unless they provide their credentials again. |
| Post-  Condition | User is redirected to the Authentication View. |
| End to End Test Fail Criteria | 1. Message does not appear 2. Session is not terminated 3. User is not redirected to the Authentication View. |
| Validation Test Fail Criteria | 1. User’s session doesn’t terminate. 2. User still has access to the system without needing to re-provide credentials. |

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| Scenario: 17 | User inactive for 15 minutes, prompt displays for less than 2 minutes |
| Execution Strategy: | 1. Don’t make any inputs for 16 minutes. 2. Click on the message that should have appeared on the screen |
| Pre-  Condition | User is logged in to the system. |
| End to End Test Pass Criteria | 1. Message appears prompting the user if they are still active on the screen 2. Message disappears 3. Session is not terminated 4. User stays on the view they were originally on |
| Validation Test Pass Criteria | 1. The system alerts the user that their session will be terminated automatically. 2. Inputs from the user allow their session to continue. |
| Post-  Condition | User stays on the view they were originally on. |
| End to End Test Fail Criteria | 1. Message does not appear 2. Message does not disappear after clicking on it 3. Session is terminated 4. User is redirected to the authentication view |
| Validation Test Fail Criteria | 1. The system does not alert the user about their session. 2. The session terminates despite input from the user. |

## **Treatment Plan Creation and Revision**

The following Scenarios will begin in sequential order and only the first scenario will start with an empty data in the database. All subsequent scenarios will be tested with the data that has been inputted from previous scenarios (if any were inputted).

Treatment Plan Creation and Revision Scenarios:

Set A)

1. Set/Edit a diagnosis for a patient

Set B)

1. Add a Checklist Widget on a valid date
2. Add a Checklist Widget with no task
3. Add a Checklist Widget 7 days before the current date

Set C)

1. Add a Meter Widget on a valid date
2. Add Meter Widget 7 days before the current date

Set D)

1. Remove Meter widget from test 6
2. Remove task 2 in the Checklist from test 2
3. Add task in the Checklist from test 2
4. Edit task 1 from Checklist from test 1
5. Add same widget type on the same day

Starts with Medical Professional Data:

First Name: Jim

Last Name: Raynor

Username: C@reawayM24

Password: Treatment$2017

Security Question 1: Who was the company you first worked for?

Answer 1: CareAway

Security Question 2: What is your favorite song?

Answer: Wake me up Inside

Security Question 3: What was the name of your first crush?

Answer: Crystible

Medical Professional Code: Randomly Generated (referred to as Jim Raynor’s MP Code)

Starts with Patient Data

Patient 1)

First Name- Tom

Last Name- Nook

Username- “C@reawayP24”

Password- “Treatment4Life”

Medical Professional Code: Jim Raynor’s MP Code

Security Question 1: Who was the company you first worked for?

Answer 1: Cemetary

Security Question 2: Who was the company you first worked for?

Answer 2: Story of my life

Security Question 3: What was the name of your first crush?

Answer 3: Someone

Pateint 2)

First Name- Jerry

Last Name- Seinfeld

Username- CocoaCorn87

Password- speakermark1

Medical Professional Code: Jim Raynor’s MP Code

Security Question 1: Who was the company you first worked for?

Answer 1: Comedy Central

Security Question 2: Who was the company you first worked for?

Answer 2: Falling Stars

Security Question 3: What was the name of your first crush?

Answer 3: Elaine

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| Scenario: 1 | Set a diagnosis for a patient |
| Execution Strategy: | 1. On the Appointment View, select the patient “Tom Nook” from the patient drop down list. 2. On the Treatment Plan Creation View, navigate to the diagnosis placeholder. Select “High Blood Pressure” |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and is currently on their Appointment View |
| End to End Test Pass Criteria | 1. The diagnosis persists on the medical professional’s treatment plan for Tom Nook. 2. The diagnosis is viewable on the Tom Nook’s treatment plan. |
| Validation Test Pass Criteria | The Medical Professional can edit the value in diagnosis placeholder. |
| Post-  Condition | Tom Nook’s diagnosis should be set to “High Blood Pressure”. |
| End to End Test Fail Criteria | 1. The diagnosis does not persist. 2. The diagnosis does not show up for the patient. 3. “High Blood Pressure” does not show up as the diagnosis for Tom Nook. 4. Medical Professional Jim Raynor cannot access the Treatment Plan View. |
| Validation Test Fail Criteria | The placeholder to set the patient diagnosis is missing. |

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| Scenario: 2 | Add a Checklist Widget on a valid date. |
| Execution Strategy: | 1. The Medical Professional (Jim Raynor) select a checklist widget from the menu. 2. The Medical Professional drags the checklist widget to *\*The next day of current date of test plan\** 3. Add criteria/ task 1“Take medication A” 4. Add criteria/ task 1“Take Medication B”. 5. Saves the widget to the Treatment Plan. |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has navigated to Tom Nook’s treatment plan. Tom Nook has currently no treatment plans under his name. |
| End to End Test Pass Criteria | 1. The Checklist Widget is persists on the Treatment Plan Creation page. 2. The Checklist Widget is viewable on Tom Nook’s treatment plan. |
| Validation Test Pass Criteria | The Medical Professional can create a Checklist Widget. |
| Post-  Condition | Checklist Widget is created with the criteria “Take medication A” and “Take Medication B”. |
| End to End Test Fail Criteria | 1. The Checklist Widget does not persist. 2. The Checklist Widget does not show up for the patient. 3. “Take medication A” and “Take Medication B” does not show up as the Checklist Widget criteria for Tom Nook. 4. Medical Professional Jim Raynor cannot access the Treatment Plan View |
| Validation Test Fail Criteria | Checklist Widget is missing or incorrect. |

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| Scenario: 3 | Add a Checklist Widget without a task. |
| Execution Strategy: | 1. The Medical Professional (Jim Raynor) select a checklist widget from the menu. 2. The Medical Professional drags the checklist widget to *\*The next day of current date of test plan\** 3. Saves the widget to the Treatment Plan. |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has navigated to Tom Nook’s treatment plan. Tom Nook has currently has the checklist treatment plans under his name. |
| End to End Test Pass Criteria | 1. Notification appears to Medical Professional Jim Raynor informing him that a minimum of one checklist criteria must be added before the widget is saved. |
| Validation Test Pass Criteria | Checklist Widget cannot be saved with missing required fields |
| Post-  Condition | Checklist Widget is not saved and a message notifies the Jim Raynor that he is missing required fields. |
| End to End Test Fail Criteria | 1. Message does not appear 2. Checklist Widget is saved without criteria 3. Medical Professional cannot navigate to the Treatment Plan Creation View. |
| Validation Test Fail Criteria | Checklist Widget is saved without required fields. |

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| Scenario: 4 | Add a Checklist Widget on a date 7 days before the current date. |
| Execution Strategy: | 1. The Medical Professional (Jim Raynor) select a checklist widget from the menu. 2. Set a date for the checklist widget to be completed by the patient 7 days before the current date. 3. Add checklist item, such as “5 min breathing exercises”. 4. Saves the widget to the Treatment Plan. |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has navigated to Tom Nook’s treatment plan. Tom Nook has currently has the checklist treatment plans under his name. |
| End to End Test Pass Criteria | 1. Notification appears to Medical Professional Jim Raynor informing him that a widget cannot be saved on a date that has already past. |
| Validation Test Pass Criteria | Checklist Widget cannot be saved on a date that has already past. |
| Post-  Condition | Checklist Widget is not saved and a message notifies the Jim Raynor that a new date needs to be chosen. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Checklist Widget is saved on a date that has already past. 3. Medical Professional cannot navigate to the Treatment Plan Creation View. |
| Validation Test Fail Criteria | Checklist Widget is saved on a date that has already past. |

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| Scenario: 5 | Add a Meter Widget on a valid date. |
| Execution Strategy: | 1. The Medical Professional (Jim Raynor) select a checklist widget from the menu. 2. The Medical Professional drags the meter widget to *\*The next day of current date of test plan\** 3. Saves the widget to the Treatment Plan. |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has navigated to Tom Nook’s treatment plan. Tom Nook has currently has the checklist treatment plans under his name. |
| End to End Test Pass Criteria | 1. The Meter Widget is viewable on the Tom Nook’s treatment plan. 2. Message notifies Medical Professional Jim Raynor the Meter Widget has been saved. |
| Validation Test Pass Criteria | Meter Widget is created. |
| Post-  Condition | Meter Widget persists on page reload. |
| End to End Test Fail Criteria | 1. The Meter Widget does not persist. 2. The Meter Widget does not show up for the patient. 3. Medical Professional Jim Raynor cannot access the Treatment Plan View |
| Validation Test Fail Criteria | Meter Widget is missing or incorrect on view reload. |

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| Scenario: 6 | Add a Meter Widget on a date 7 days before the current date. |
| Execution Strategy: | 1. The Medical Professional (Jim Raynor) select a checklist widget from the menu. 2. Set a date for the Meter Widget to be completed by the patient 7 days before the current date. 3. Save the widget to the Treatment Plan. |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has navigated to Tom Nook’s treatment plan. Tom Nook has currently has the checklist and meter treatment plans under his name. |
| End to End Test Pass Criteria | 1. Notification that the date requested has already passed and that the Medical Professional Jim Raynor should select a different date. |
| Validation Test Pass Criteria | Meter Widget will not be saved until the Medical Professional Jim Raynor selects an acceptable date. |
| Post-  Condition | Meter Widget is not saved and message is displayed. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Checklist Widget is saved on a date that has already past. 3. Medical Professional cannot navigate to the Treatment Plan Creation View. |
| Validation Test Fail Criteria | Meter Widget is created on a date that has already past. |

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| Scenario: 7 | Remove Meter Widget from test 6 |
| Execution Strategy: | 1. The Medical Professional (Jim Raynor) select a Meter Widget that was created in test 6 for Tom Nook. 2. Deletes the Meter Widget. 3. Save the deletion. |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has navigated to Tom Nook’s treatment plan. Tom Nook has currently has the checklist and meter treatment plans under his name. |
| End to End Test Pass Criteria | 1. Notification appears to notify the Medical Professional Jim Raynor that the Meter Widget has been deleted |
| Validation Test Pass Criteria | Notification appears and Meter Widget is deleted. |
| Post-  Condition | Meter widget remains deleted on page reload. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Meter Widget is not deleted. 3. Medical Professional cannot navigate to the Treatment Plan Creation View. |
| Validation Test Fail Criteria | Meter Widget is not deleted. |

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| Scenario: 8 | Remove task 2 in the Checklist Widget from test 2. |
| Execution Strategy: | 1. The Medical Professional (Jim Raynor) select a checklist widget from the menu select a Checklist Widget that was created in test 2 for Tom Nook. 2. Delete the task “Take Medication B” on the Checklist Widget. 3. Save update to the Checklist Widget. |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has navigated to Tom Nook’s treatment plan. Tom Nook has currently has the checklist treatment plans under his name. |
| End to End Test Pass Criteria | 1. Notification appears to show that updates have been saved. |
| Validation Test Pass Criteria | Notification appears and Checklist Widget is updated. |
| Post-  Condition | Updates to Checklist Widget persist on page reload. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Checklist Widget is not updated. 3. Medical Professional cannot navigate to the Treatment Plan Creation View. |
| Validation Test Fail Criteria | Checklist Widget is not updated. |

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| Scenario: 9 | Add task in the Checklist Widget from test 2 |
| Execution Strategy: | 1. The Medical Professional (Jim Raynor) select the Checklist Widget that was created in test 2. 2. Add a task to the Checklist Widget, such as “Take Medication C”. 3. Save update. |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has navigated to Tom Nook’s treatment plan. Tom Nook has currently has the checklist treatment plans under his name. |
| End to End Test Pass Criteria | 1. Notification appears to show the updates have been saved. |
| Validation Test Pass Criteria | Notification appears and Checklist Widget is updated. |
| Post-  Condition | Updates to the Checklist Widget persists on page reload. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Checklist Widget is not deleted. 3. Medical Professional cannot navigate to the Treatment Plan Creation View. |
| Validation Test Fail Criteria | Checklist Widget is not updated. |

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| Scenario: 10 | Edit task 1 from Checklist from test 2 |
| Execution Strategy: | 1. The Medical Professional (Jim Raynor) select the Checklist Widget that was created in test 2. 2. Makes changes to task 1 in the Checklist Widget, such changing “Take Medication A” to “Take 1 tablet from Medication A”. 3. Save update. |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has navigated to Tom Nook’s treatment plan. Tom Nook has currently has the checklist treatment plans under his name. |
| End to End Test Pass Criteria | 1. Notification appears to that the update has been saved. |
| Validation Test Pass Criteria | Notification appears and Checklist Widget is updated. |
| Post-  Condition | Updates to the Checklist Widget persists on page reload. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Checklist Widget is not deleted. 3. Medical Professional cannot navigate to the Treatment Plan Creation View. |
| Validation Test Fail Criteria | Checklist Widget is not updated. |

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| Scenario: 11 | Add the same widget type on the same day. |
| Execution Strategy: | 1. The Medical Professional (Jim Raynor) select a second Checklist Widget on the same date as test 2. |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has navigated to Tom Nook’s treatment plan. Tom Nook has currently has the checklist treatment plans under his name. |
| End to End Test Pass Criteria | 1. Notification appears to notify the Medical Professional Jim Raynor that only one widget of that type is allowed per day. |
| Validation Test Pass Criteria | Notification appears and Checklist Widget is not available to be created. |
| Post-  Condition | Checklist Widget is not created. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Checklist Widget is created. 3. Medical Professional cannot navigate to the Treatment Plan Creation View. |
| Validation Test Fail Criteria | Checklist Widget is created. |

## **Treatment Plan Interaction**

The following Scenarios will begin in sequential order and only the first scenario will start with an empty data in the database. All subsequent scenarios will be tested with the data that has been inputted from previous scenarios (if any were inputted).

Treatment Plan Creation and Revision Scenarios:

Set A)

1. Mark task 1 on Checklist widget as completed
2. Unmark task 1 on Checklist widget
3. Attempt to change a task ahead of time

Set B)

1. Save response on Meter Widget
2. Change Meter Widget response and save it
3. Change Meter widget on a different date

Scenarios 1-6) Starts with the following data

Starts with Medical Professional Data

First Name: Jim

Last Name: Raynor

Username: C@reawayM24

Password: Treatment$2017

Security Question 1: Who was the company you first worked for?

Answer 1: CareAway

Security Question 2: What is your favorite song?

Answer: Wake me up Inside

Security Question 3: What was the name of your first crush?

Answer: Crystible

Medical Professional Code: Randomly Generated (referred to as Jim Raynor’s MP Code)

Starts with Patient Data

Patient 1)

First Name- Tom

Last Name- Nook

Username- “C@reawayP24”

Password- “Treatment4Life”

Medical Professional Code: Jim Raynor’s MP Code

Diagnosis: Diabetes

Security Question 1: Who was the company you first worked for?

Answer 1: Cemetary

Security Question 2: Who was the company you first worked for?

Answer 2: Story of my life

Security Question 3: What was the name of your first crush?

Answer 3: Someone

Pateint 2)

First Name- Jerry

Last Name- Seinfeld

Username- CocoaCorn87

Password- speakermark1

Medical Professional Code: Jim Raynor’s MP Code

Diagnosis: Asthma

Security Question 1: Who was the company you first worked for?

Answer 1: Comedy Central

Security Question 2: Who was the company you first worked for?

Answer 2: Falling Stars

Security Question 3: What was the name of your first crush?

Answer 3: Elaine

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| Scenario: 1 | Mark task 1 on Checklist as completed |
| Execution Strategy: | 1. The Patient (Tom Nook) select a Checklist Widget on the calendar. 2. Mark task 1 off as completed. 3. Save changes to the Checklist widget. |
| Pre-  Condition | Tom Nook is logged in to the system and on the Patient Treatment Plan View. Tom Nook also has the Meter and CheckList Widget (*made in Treatment Plan Creation*) in his treatment plan that is on the \**current date of test plan*. |
| End to End Test Pass Criteria | 1. Notification appears to show the user that their progress has been saved. 2. Checklist Widget is updated on the Medical Professional View. |
| Validation Test Pass Criteria | Checklist Widget item is saved as complete |
| Post-  Condition | Checklist Widget progress persists on page reload. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Checklist Widget item is not saved. 3. Tom Nook is not able to navigate to the Patient Treatment Plan View. |
| Validation Test Fail Criteria | Checklist Widget is missing or incorrect. |

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| Scenario: 2 | Unmark task 1 on Checklist as completed |
| Execution Strategy: | 1. The patient (Tom Nook), select a Checklist Widget on the calendar. 2. Unmark task 1 off as completed. 3. Save changes to the Checklist widget. |
| Pre-  Condition | Tom Nook is logged in to the system and on the Patient Treatment Plan View. Tom Nook also has the Meter and CheckList Widget (*made in Treatment Plan Creation*) in his treatment plan that is on the \**current date of test plan*. |
| End to End Test Pass Criteria | 1. Notification appears to show the user that their progress has been saved, 2. Checklist Widget is updated on the Medical Professional View. |
| Validation Test Pass Criteria | Checklist Widget item is saved as complete |
| Post-  Condition | Checklist Widget progress persists on page reload. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Checklist Widget item is not saved. 3. Tom Nook is not able to navigate to the Patient Treatment Plan View. |
| Validation Test Fail Criteria | Checklist Widget is missing or incorrect. |

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| --- | --- |
| Scenario: 3 | Attempt to change a task ahead of time |
| Execution Strategy: | 1. The Patient (Tom Nook) select the Checklist Widget that is \**2 days away from the current date of test plan* 2. Mark task 1 as completed. 3. Submits Data |
| Pre-  Condition | Tom Nook is logged in to the system and on the Patient Treatment Plan View. Tom Nook also has the Meter and CheckList Widget (*made in Treatment Plan Creation*) in his treatment plan that is on the \*2 days away from *current date of test plan*. |
| End to End Test Pass Criteria | 1. Notification appears showing that the task cannot be completed on for a future date. 2. Checklist Widget is updated on the Medical Professional View. |
| Validation Test Pass Criteria | Notification appears and the data is not saved |
| Post-  Condition | Interaction with widget does not get saved. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Checklist Widget item is saved for the future date. 3. Tom Nook is not able to navigate to the Patient Treatment Plan View. |
| Validation Test Fail Criteria | Checklist Widget is saved on a future date. |

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| Scenario: 4 | Save response on Meter Widget |
| Execution Strategy: | 1. Patient select a Meter Widget on the \**current date of the test plan* 2. Set the Pain meter to the value of “10” 3. Submit response. |
| Pre-  Condition | Tom Nook is logged in to the system and on the Patient Treatment Plan View. Tom Nook also has the Meter and CheckList Widget (*made in Treatment Plan Creation*) in his treatment plan that is on the \**current date of test plan*. |
| End to End Test Pass Criteria | 1. Notification appears showing that the response to the Meter Widget is saved. 2. Meter Widget is updated on the Medical Professional View. |
| Validation Test Pass Criteria | Notification appears and Meter Widget response is saved as complete. |
| Post-  Condition | Meter Widget response persists on page reload. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Meter Widget response is not saved. 3. Tom Nook is not able to navigate to the Patient Treatment Plan View. |
| Validation Test Fail Criteria | Meter Widget response is missing or incorrect. |

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| Scenario: 5 | Change Meter Widget response and save it |
| Execution Strategy: | 1. The Patient (Tom Nook) select the Meter Widget from Scenario 4 2. Set Pain Level to “7” 3. Save response. |
| Pre-  Condition | Tom Nook is logged in to the system and on the Patient Treatment Plan View. Tom Nook also has the Meter and CheckList Widget (*made in Treatment Plan Creation*) in his treatment plan that is on the \**current date of test plan*. |
| End to End Test Pass Criteria | 1. Notification appears showing that the response to the Meter Widget has been updated. 2. Meter Widget is updated on the Medical Professional View. |
| Validation Test Pass Criteria | Notification appears and Meter Widget response is saved as complete. |
| Post-  Condition | Meter Widget response persists on page reload. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Meter Widget response is not saved. 3. Tom Nook is not able to navigate to the Patient Treatment Plan View. |
| Validation Test Fail Criteria | Meter Widget response is missing or incorrect. |

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| Scenario: 6 | Change Meter widget on a different date |
| Execution Strategy: | 1. The Patient (Tom Nook), select a Meter Widget \*2 days away from *current date of test plan*. 2. Set Pain Level to “10” 3. Submit Data. |
| Pre-  Condition | Tom Nook is logged in to the system and on the Patient Treatment Plan View. Tom Nook also has the Meter and CheckList Widget (*made in Treatment Plan Creation*) in his treatment plan that is on the \*2 days away from *current date of test plan*. |
| End to End Test Pass Criteria | 1. Notification appears showing that the scale cannot be set on for a Meter Widget on a future date. 2. Meter Widget is updated on the Medical Professional View. |
| Validation Test Pass Criteria | Notification appears and the data is not saved |
| Post-  Condition | Interaction with widget does not get saved. |
| End to End Test Fail Criteria | 1. Message does not appear. 2. Meter Widget scale is saved for the future date. 3. Tom Nook is not able to navigate to the Patient Treatment Plan View. |
| Validation Test Fail Criteria | Meter Widget is saved on a future date. |

## **Appointment Scheduling**

The following scenarios will begin in sequential order. All subsequent scenarios will be tested with the data that has been inputted from previous scenarios (if any were inputted).

Set A)

1. Patient requests appointment - empty slot
2. Patient requests appointment - slot that already has an appointment
3. Patient requests appointment - slot that is before the current time and date

Set B)

1. Medical Professional requests appointment - empty slot
2. Medical Professional requests appointment - slot that already has an appointment
3. Medical Professional requests appointment - slot that is before the current time and date

Set C)

1. Patient accepts appointment
2. Patient declines appointment
3. Medical Professional accepts appointment
4. Medical Professional declines appointment

Set D)

1. Patient cancels appointment 24 hours before the scheduled date and time
2. Patient cancels appointment within 24 hours of the scheduled date and time
3. Medical Professional cancels appointment 24 hours before the scheduled date and time
4. Medical Professional cancels appointment within 24 hours of the scheduled date and time

Data per scenario:

**Scenario 8)**

Start with Appointment Data in the Appointment Database:

Date: 5 days after current date

Time: 2:00 PM

**Scenario 10)**

Start with Appointment Data in the Appointment Database:

Date: 3 days after current date

Time: 2:00 PM

**Scenario 12)**

Start with Appointment Data in the Appointment Database:

Date: Current date

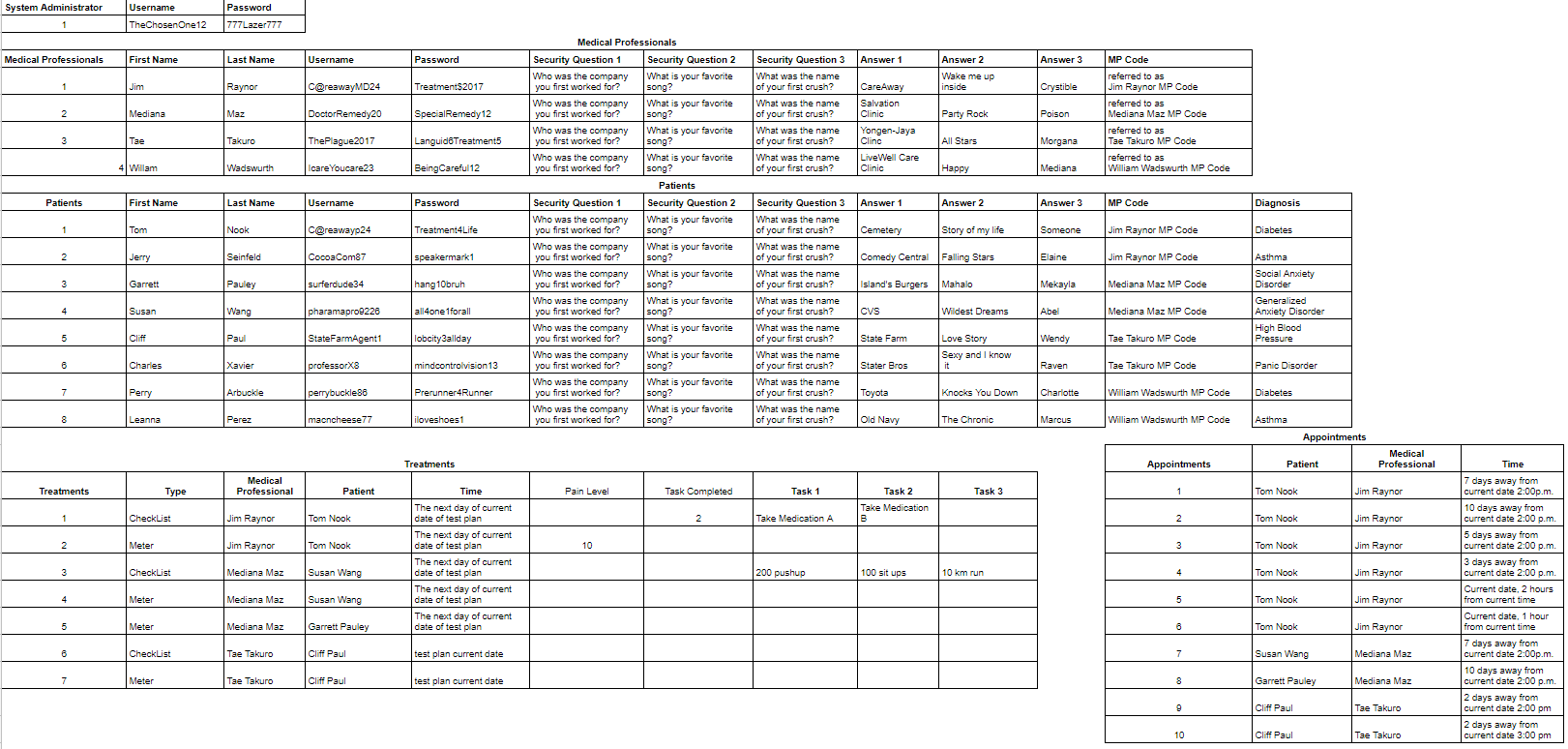
Time: 2 hours after current time

**Scenario 14)**

Start with Appointment Data in the Appointment Database:

Date: Current date

Time: 1 hour after current time



Set A)

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| --- | --- |
| Scenario: 1 | Patient requests appointment - empty slot |
| Execution Strategy: | 1. Request appointment 2. Choose the date that is one week after the current date 3. Choose 2:00 PM as the time 4. Submit request |
| Pre-  Condition | Patient Tom Nook is logged in to the system and is currently on their Appointment View. No appointment is set at the date one week after the current date at 2:00 PM. |
| End to End Test Pass Criteria | 1. Patient is prompted that request has been sent. 2. Appointment is saved in the database. 3. Medical Professional Jim Raynor was sent the request and is notified of the request. |
| Validation Test Pass Criteria | Appointment request has been sent to Medical Professional Jim Raynor. |
| Post-  Condition | Tom Nook stays on the Appointment View. |
| End to End Test Fail Criteria | 1. Patient is not prompted the request was sent. 2. Appointment is not saved in the database. 3. Medical Professional was not notified of the request. |
| Validation Test Fail Criteria | Appointment request was not sent to the Medical Professional. |

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| Scenario: 2 | Patient requests appointment - slot that already has an appointment |
| Execution Strategy: | 1. Request appointment 2. Choose the same date that was chosen in Scenario 1 3. Choose 2:00 PM as the time 4. Submit request |
| Pre-  Condition | Patient Tom Nook is logged in to the system and is currently on their Appointment View. Scenario 1 has already been executed and the appointment was requested. |
| End to End Test Pass Criteria | 1. Patient is prompted an appointment was already requested at that time. 2. Appointment is not saved in the database. |
| Validation Test Pass Criteria | An appointment was not made. |
| Post-  Condition | Tom Nook stays on the Appointment View. |
| End to End Test Fail Criteria | 1. Patient was not prompted that the request failed. 2. Patient is prompted the request was sent. 3. Appointment is saved in the database. |
| Validation Test Fail Criteria | Appointment request was made. |

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| --- | --- |
| Scenario: 3 | Patient requests appointment - slot that is before the current time and date |
| Execution Strategy: | 1. Request appointment 2. Choose the date that is one day before the current date 3. Choose 2:00 PM as the time 4. Submit request |
| Pre-  Condition | Patient Tom Nook is logged in to the system and is currently on their Appointment View. |
| End to End Test Pass Criteria | 1. Patient is prompted that the date and time are invalid. 2. Appointment is not saved in the database. |
| Validation Test Pass Criteria | An appointment was not made. |
| Post-  Condition | Tom Nook stays on the Appointment View. |
| End to End Test Fail Criteria | 1. Patient was not prompted that the request failed. 2. Patient is prompted the request was sent. 3. Appointment is saved in the database. |
| Validation Test Fail Criteria | Appointment request was made. |

|  |  |
| --- | --- |
| Scenario: 4 | Medical Professional requests appointment - empty slot |
| Execution Strategy: | 1. Request appointment 2. Select “Tom Nook as the Patient 3. Choose the date that is 10 days after the current date 4. Choose 2:00 PM as the time 5. Submit request |
| Pre-  Condition | Medical professional Jim Raynor is logged in to the system and is currently on their Appointment View. No appointment is set at the date 10 days after the current date at 2:00 PM. |
| End to End Test Pass Criteria | 1. Medical Professional is prompted that request has been sent. 2. Appointment is saved in the database. 3. Patient Tom Nook is sent the request and is notified of the request. |
| Validation Test Pass Criteria | Appointment request has been sent to Patient Tom Nook. |
| Post-  Condition | Jim Raynor stays on the Appointment View |
| End to End Test Fail Criteria | 1. Medical Professional is not prompted the request was sent. 2. Appointment is not saved in the database. 3. Patient did not get notified of the request. |
| Validation Test Fail Criteria | Appointment request was not sent to Patient. |

|  |  |
| --- | --- |
| Scenario: 5 | Medical Professional requests appointment - slot that already has an appointment |
| Execution Strategy: | 1. Request appointment 2. Select “Jerry Seinfeld” 3. Choose the same date that was chosen in Scenario 1 4. Choose 2:00 PM as the time 5. Submit request |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system and has the patient Tom Nook and Jerry Seinfeld under his name. The Medical Professional is located on their appointment page. Scenario 4 has already been executed and the appointment was requested. |
| End to End Test Pass Criteria | 1. Medical Professional is prompted an appointment was already requested at that time. 2. Appointment is not saved in the database. |
| Validation Test Pass Criteria | An appointment was not made. |
| Post-  Condition | Jim Raynor stays on the Appointment View |
| End to End Test Fail Criteria | 1. Medical Professional was not prompted that the request failed. 2. Medical Professional is prompted the request was sent. 3. Appointment is saved in the database. |
| Validation Test Fail Criteria | Appointment request was made. |

|  |  |
| --- | --- |
| Scenario: 6 | Medical Professional requests appointment - slot that is before the current time and date |
| Execution Strategy: | 1. Request appointment 2. Selects “Tom Nook” as the patient 3. Choose the date that is one day before the current date 4. Choose 2:00 PM as the time 5. Submit request |
| Pre-  Condition | Medical Professional Jim Raynor is logged into the system. |
| End to End Test Pass Criteria | 1. Medical Professional is prompted that the date and time are invalid. 2. Appointment is not saved in the database. |
| Validation Test Pass Criteria | An appointment was not made. |
| Post-  Condition | Jim Raynor stays on the Appointment View |
| End to End Test Fail Criteria | 1. Medical Professional was not prompted that the request failed. 2. Medical Professional is prompted the request was sent. 3. Appointment is saved in the database. |
| Validation Test Fail Criteria | Appointment request was made. |

|  |  |
| --- | --- |
| Scenario: 7 | Patient accepts appointment |
| Execution Strategy: | 1. Click on request 2. Accept appointment request |
| Pre-  Condition | Patient Tom Nook is logged in to the system. Scenario 4 has already been executed and the appointment was requested. Patient is notified of request. |
| End to End Test Pass Criteria | 1. Appointment is updated in the database as official and not pending. 2. Appointment shows up on the treatment plan for both Medical Professional Jim Raynor and Patient Tom Nook. 3. Appointment request disappears. |
| Validation Test Pass Criteria | The appointment was accepted and shows up on the treatment plan. |
| Post-  Condition | Tom Nook stays on the view they were originally on. |
| End to End Test Fail Criteria | 1. Appointment is not updated in the database. 2. Appointment does not show up on either treatment plan. 3. Appointment request does not disappear. |
| Validation Test Fail Criteria | The appointment was not accepted. |

|  |  |
| --- | --- |
| Scenario: 8 | Patient declines appointment |
| Execution Strategy: | 1. Click on request 2. Decline appointment request |
| Pre-  Condition | Patient Tom Nook is logged in to the system. The database has a warm start with a pending appointment request 5 days after the current date at 2PM made by Medical Professional Jim Raynor. Patient is notified of request. |
| End to End Test Pass Criteria | 1. Appointment is updated in the database as declined. 2. Appointment does not show up for either Medical Professional Jim Raynor or the Patient Tom Nook. 3. Appointment request disappears. |
| Validation Test Pass Criteria | The appointment was declined. |
| Post-  Condition | Tom Nook stays on the view they were originally on. |
| End to End Test Fail Criteria | 1. Appointment is not updated in the database. 2. Appointment is updated as not pending and official. 3. Appointment shows up on either treatment plan. 4. Appointment request does not disappear. |
| Validation Test Fail Criteria | The appointment was accepted or not declined. |

|  |  |
| --- | --- |
| Scenario: 9 | Medical Professional accepts appointment |
| Execution Strategy: | 1. Click on request 2. Accept appointment request |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system. Scenario 1 has already been executed and the appointment was requested. Medical Professional is notified of request. |
| End to End Test Pass Criteria | 1. Appointment is updated in the database as official and not pending. 2. Appointment shows up on the treatment plan for both Medical Professional and Patient. 3. Appointment request disappears. |
| Validation Test Pass Criteria | The appointment was accepted and shows up on the treatment plan. |
| Post-  Condition | Jim Raynor stays on the view they were originally on. |
| End to End Test Fail Criteria | 1. Appointment is not updated in the database. 2. Appointment does not show up on either treatment plan. 3. Appointment request does not disappear. |
| Validation Test Fail Criteria | The appointment was not accepted. |

|  |  |
| --- | --- |
| Scenario: 10 | Medical Professional declines appointment |
| Execution Strategy: | 1. Click on request 2. Decline appointment request |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system. The database has a warm start with a pending appointment request 3 days after the current date at 2:00PM from the patient Tom Nook. Medical Professional is notified of request. |
| End to End Test Pass Criteria | 1. Appointment is updated in the database as declined. 2. Appointment does not show up for either Medical Professional or Patient. 3. Appointment request disappears. |
| Validation Test Pass Criteria | The appointment was declined. |
| Post-  Condition | Jim Raynor stays on the view they were originally on. |
| End to End Test Fail Criteria | 1. Appointment is not updated in the database. 2. Appointment is updated as not pending and official. 3. Appointment shows up on either treatment plan. 4. Appointment request does not disappear. |
| Validation Test Fail Criteria | The appointment was accepted or not declined. |

|  |  |
| --- | --- |
| Scenario: 11 | Patient cancels appointment 24 hours before the scheduled date and time |
| Execution Strategy: | 1. Click on the appointment that was approved in Scenario 7 2. Cancel appointment |
| Pre-  Condition | Patient Tom Nook is logged in to the system. Scenario 7 has already been executed and the appointment was approved. This scenario must be done 24 hours before the time and date of the approved appointment. |
| End to End Test Pass Criteria | 1. Appointment is updated in the database as cancelled. 2. Appointment disappears for both Medical Professional and Patient. |
| Validation Test Pass Criteria | The appointment was cancelled. |
| Post-  Condition | Tom Nook stays on the view they were originally on. |
| End to End Test Fail Criteria | 1. Appointment is not updated in the database as cancelled. 2. Appointment does not disappear for either Medical Professional or Patient. |
| Validation Test Fail Criteria | The appointment was not cancelled. |

|  |  |
| --- | --- |
| Scenario: 12 | Patient cancels appointment within 24 hours of the scheduled date and time |
| Execution Strategy: | 1. Click on the appointment that was approved in Scenario 7 2. Cancel appointment |
| Pre-  Condition | Patient Tom Nook is logged in to the system. The database has a warm start with an accepted appointment between Tom Nook and Jim Raynor that is on the current date and 2 hours from the current time. This scenario must be done within 24 hours of the time and date of the approved appointment. |
| End to End Test Pass Criteria | 1. Patient is prompted that they cannot cancel the appointment. 2. Appointment is not changed in the database. |
| Validation Test Pass Criteria | The appointment was not cancelled. |
| Post-  Condition | Tom Nook stays on the view they were originally on. |
| End to End Test Fail Criteria | 1. Patient is not prompted that they cannot cancel the appointment. 2. Appointment is updated in the database. 3. Appointment disappears for either Medical Professional or Patient. |
| Validation Test Fail Criteria | The appointment was cancelled. |

|  |  |
| --- | --- |
| Scenario: 13 | Medical Professional cancels appointment 24 hours before the scheduled date and time |
| Execution Strategy: | 1. Click on the appointment that was approved in Scenario 9 2. Cancel appointment |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system. Scenario 9 has already been executed and the appointment was approved. This scenario must be done 24 hours before the time and date of the approved appointment. |
| End to End Test Pass Criteria | 1. Appointment is updated in the database as cancelled. 2. Appointment disappears for both Medical Professional and Patient. |
| Validation Test Pass Criteria | The appointment was cancelled. |
| Post-  Condition | Jim raynor stays on the view they were originally on. |
| End to End Test Fail Criteria | 1. Appointment is not updated in the database as cancelled. 2. Appointment does not disappear for either Medical Professional or Patient. |
| Validation Test Fail Criteria | The appointment was not cancelled. |

|  |  |
| --- | --- |
| Scenario: 14 | Medical Professional cancels appointment within 24 hours of the scheduled date and time |
| Execution Strategy: | 1. Click on the appointment that was approved in Scenario 9 2. Cancel appointment |
| Pre-  Condition | Medical Professional Jim Raynor is logged in to the system. The database has a warm start with a confirmed appointment existing between Jim Raynor and Tom Nook that is on the current date and 1 hour after the current time. This scenario must be done within 24 hours of the time and date of the approved appointment. |
| End to End Test Pass Criteria | 1. Medical Professional is prompted that they cannot cancel the appointment. 2. Appointment is not changed in the database. |
| Validation Test Pass Criteria | The appointment was not cancelled. |
| Post-  Condition | Jim Raynor stays on the view they were originally on. |
| End to End Test Fail Criteria | 1. Medical Professional is not prompted that they cannot cancel the appointment. 2. Appointment is updated in the database. 3. Appointment disappears for either Medical Professional or Patient. |
| Validation Test Fail Criteria | The appointment was cancelled. |

## 

## **Data Analysis Report**

The following scenarios will begin in sequential order.

Data Analysis Report scenarios:

Set A)

1. Generate Data Analysis Report with Patient Data
2. Generate Data Analysis Reports New Patient (no treatment plan)

Data per scenario:

**Scenario 1)**

Starts with Treatment Data in the Treatment Database:

Type: Checklist

Medical Professional: Jim Raynor

Patient: Tom Nook

Time: current date

Pain level: 10

Task Completed: 2

Task 1: Take Medication A

Task 2: Take Medication B

2)

Type: Meter

Medical Professional: Jim Raynor

Patient: Tom Nook

Time: current date

Pain level: 10

|  |  |
| --- | --- |
| Scenario: 1 | Generate Data Analysis Report with Patient Data |
| Execution Strategy: | 1. Medical Professional lands on the Data Analysis Report view from the patient’s treatment plan. |
| Pre-  Condition | Medical Professional is logged in to the system with Tom Nook and Jerry Seinfeld as the patients and has navigated to a patient's Tom Nook’s treatment plan. Medical Professional has selected the option to generate a data analysis report from the patient’s treatment plan page. |
| End to End Test Pass Criteria | 1. The patient’s data is aggregated and shown to the Medical Professional as graphical representations. 2. 3 graphs should show up for the patient - Task Completion Percentage, Reported Wellness, and Task Completion for Patients with the same Condition. |
| Validation Test Pass Criteria | The Medical Professional can see graphical representations of the patient’s data. |
| Post-  Condition | Medical Professional is on the Data Analysis Report view. |
| End to End Test Fail Criteria | 1. Patient’s data was not aggregated or shown to the Medical Professional as graphical representations. |
| Validation Test Fail Criteria | The Medical Professional cannot see graphical representations of the patient’s data. |

|  |  |
| --- | --- |
| Scenario: 2 | Generate Data Analysis Reports New Patient |
| Execution Strategy: | 1. Medical Professional lands on the Data Analysis Report view from the patient’s treatment plan. |
| Pre-  Condition | Medical Professional is logged in to the system with Tom Nook and Jerry Seinfeld as the patients and has navigated to a patient's Tom Nook’s treatment plan. Medical Professional has selected the option to generate a data analysis report from the patient’s treatment plan page. |
| End to End Test Pass Criteria | 1. Data Analysis Report shows up empty due to lack of data for that patient. |
| Validation Test Pass Criteria | The Medical Professional cannot see a valid Data Analysis Report of a patient without sufficient data. |
| Post-  Condition | Medical Professional is on the Data Analysis Report view. |
| End to End Test Fail Criteria | 1. Data Analysis Report does not show up empty. |
| Validation Test Fail Criteria | The Medical Professional sees graphical representations of data despite the selected patient not having sufficient data. |

# **Unit Testing**

The team will be conducting Unit Testing on the following components - Data Access, User Management, Security, User Access Control, Error Handling, Network Communication. Our team will be executing unit tests in order to test each individual behavior of a module in our application. Each Unit Test will specify how each module should act based on the criterias inputted.

## **Test Case Definitions**

*Scenario* - The specific module that is currently being tested

*Input Values -* The input values used in that specific module case

*Expected Value* - Either Pass or Fail, which denotes that the expected outcome should either be processed or return an error.

## **Test Cases**

The following are the Test case scenario for Unit Testing

**Data Access Scenarios:**

* Medical Professional’s data
* Patient’s data

**User Management Scenarios:**

* Creating Medical Professional/Patients
* Editing their Credentials (Password)
* Creating/Terminating User Sessions

**Security Scenarios:**

* Sending Breach Notification Reports

**User Access Control Scenarios:**

* Medical Professional Access their functionalities (patient data, creating appointments, creating treatments)
* Patient Access to their functionalities (Completing their treatment plan, creating appointments)

**Error Handling Scenarios:**

* Inserting invalid data during Registration
* Inserting invalid data during Login
* Inserting invalid data during treatment creation
* Inserting invalid data for appointment request

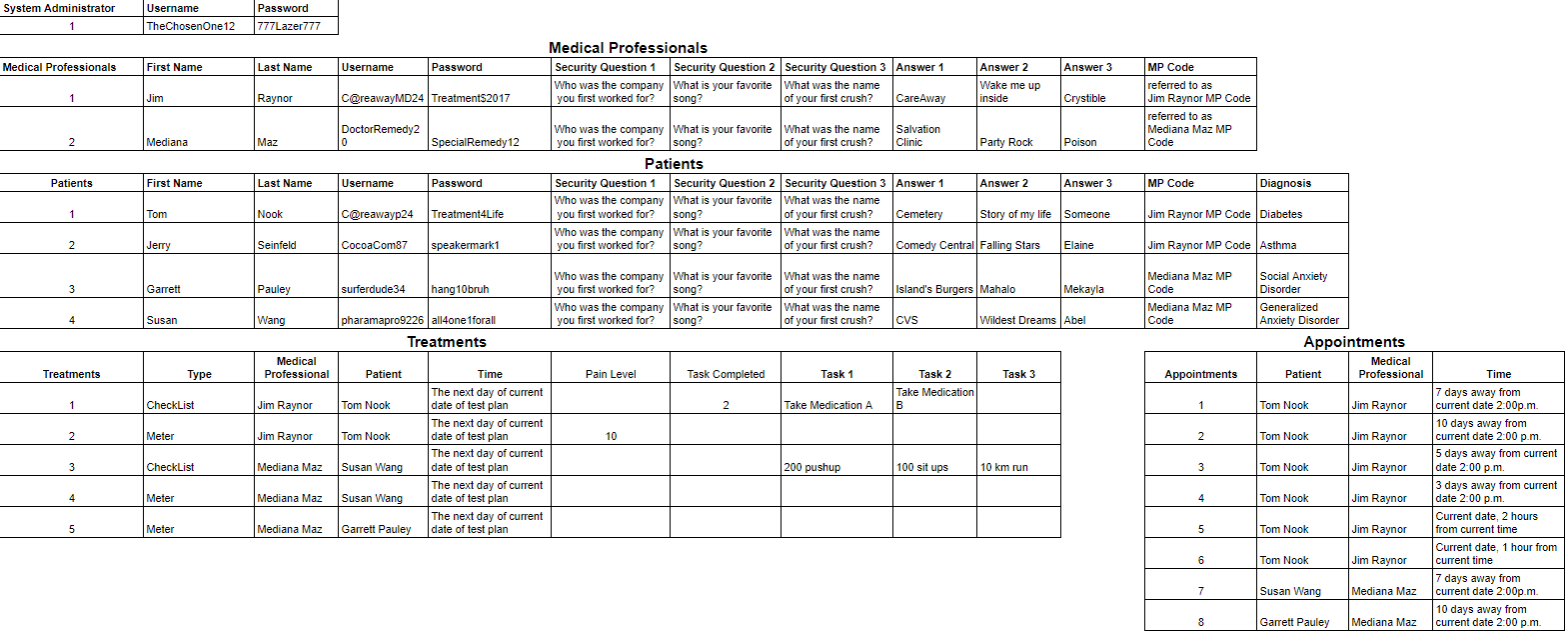
## **Test Data**

For each test case, throughout each test case scenario each test case will specify the data that will be created or already created in the introduction of each test case. For all test cases in Unit Testing, all data from End to End and Validation Testing will already be provided in the database and may be used throughout the test case scenarios throughout Unit Testing. The following data from End to End and Validation Testing are

* System Administrator 1
* Medical Professional 1
* Patient 1 and 2
* Treatment Plans 1 and 2
* Appointments 1 2 3 4 5 6

*\*Please refer to the Data Table on the next page to find the appropriate association for each data*

In addition, the Data Table includes all data that will be utilized throughout Unit Testing. Many data on the data table such as Medical Professional 2 and Patient 3 and 4 will be created in User Management Test Case Scenario, and other data as followed. Please refer to each Test Case to find further explanation of the data utilized throughout each test case scenario.



## **Data Access**

The following Unit Test will encompass the following scenarios and will begin in sequential order. All subsequent scenarios will have pre-made data as specified below for each scenario case. Each Test input will refer back to the Business Requirement Document for the required criteria for each individual data:

Criteria for a username will be as follows:

* Must be unique. Cannot be an already existing identifier
* 8 - 120 characters [A - Z or a - z]
* Must contain at least 1 numeric digit [0-9]
* No Spaces or special characters with the exception of the @ symbol and . symbol

Criteria for a password will be as follows:

* + 8 - 120 characters [A - Z or a-z]
  + Must contain at least 1 numeric digit [0 - 9]
  + Special characters allowed: ! @ # @ $ % &
  + Cannot be solely numbers or solely letters
  + No Spaces

Criteria for security question answers will be as follows:

* + 1 - 100 characters [ A-Z, a -z, 0 - 9]
  + Special characters and spaces will be allowed

The following are the set of scenarios that are going to be tested for *Data Access Unit Testing*, which are medical professional data access and patient data access. For the following cases, the team will be limiting the test case scenarios to the specified action (e.g. read/edit actions) in the *Business Requirement Document*. Furthermore, the team will ***NOT*** be testing for all create, read, update, delete functionality for every single data in our system due to time constraints. The following scenario cases are:

Set A) *Unit Test Scenarios for Medical Professional Data Access*

1. Medical Professional creating an account
2. Medical Professional editing Password
3. Medical Professional reading their Patient Data
4. Medical Professional creating, reading, updating, deleting Treatment Data
5. Medical Professional create, read, update Their Patients’ Medical Condition
6. Medical Professional create, read, update, delete Appointment Time

*Set B) Patient have data access to the following data:*

1. Patient creating an account
2. Patient editing their password
3. Patient create, read, update, delete Treatment Data
4. Patient create, read, update, delete Their specific medical condition
5. Patient create, read, update, delete Appointment Time

The following are the set of data that will be used throughout the testing for Data Access in Unit Testing. In addition there will be already data from *End-to-End and Validation Testing* that will already be existing in the database which are:

* System Administrator 1
* Medical Professional 1
* Patient 1 and 2
* Treatment Plans 1 and 2
* Appointments 1 2 3 4 5 6

This data is represented in the table below. Furthermore, Medical Professional 2 will be created in Data Access Scenario 1 and Patient 4 will arbitrary be made after Scenario 1 and persist throughout testing. Patient 3 will be created in Data Access Scenario 7.

For Scenario 1

* Medical Professional 1
* Patient 1 and 2
* Treatment Plans 1 and 2
* Appointments 1 and 2

For Scenario 2,3

* Medical Professional 1 and 2
* Patient 1, 2, 4
* Treatment Plans 1, 2, 4
* Appointments 1 and 2

For Scenario 4

* Medical Professional 1 and 2
* Patient 1 and 2
* Treatment Plans 1, 2, 3,4
* Appointments 1 and 2

For Scenario 5

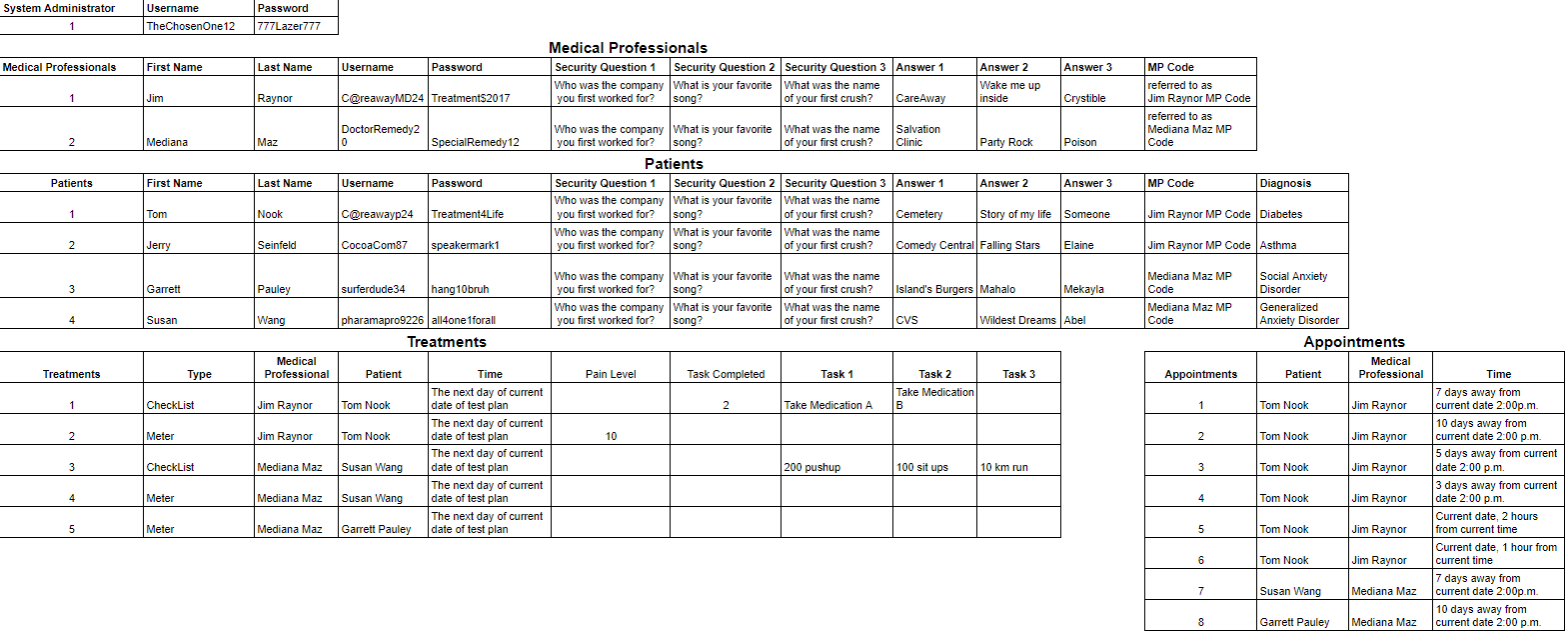
* Medical Professional 1 and 2
* Patient 1, 2,3
* Treatment Plans 1, 2, 3,4, 5
* Appointments 1, 2, 3

For Scenario 7,8,9,10

* Medical Professional 1 and 2
* Patient 1, 2,3 ,4
* Treatment Plans 1, 2, 3,4, 5
* Appointments 1, 2, 3

For Scenario 11

* Medical Professional 1 and 2
* Patient 1, 2,3 ,4
* Treatment Plans 1, 2, 3,4, 5
* Appointments 1, 2, 3, 4 , 5 6



Set A) Unit Test Scenarios for Medical Professional Data Access:

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U001 | Medical Professional creating an account | First Name: “Mediana”  Last Name: “Maz”  Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Salvation Clinic”  Security Question 2: “What is your favorite song?”  Answer 2: “Party Rock”  Security Question 3: “What was the name of your first crush?”  Answer 3: “Poison” | Pass |
| U002 | Medical Professional editing Password | Username: “DoctorRemedy20”  Answer 1: “Salvation Clinic”  Answer 2: “Party Rock”  Answer 3: “Poison”  New Password: “SpecialRemedy12” | Pass |
| U003 | Medical Professional reading their Patient Data | Username: “DoctorRemedy20”  Password: “SpecialRemedy123” | Pass |
| U004 | Medical Professional create Treatment Plan | Treatment Info:  Medical Professional: “Mediana Maz”  Patient: “Susan Wang”  Time: *\*The next day of current date of test plan*  Type: CheckList Widget  Task 1: “100 push up”  Task 2: “100 sit up”  Task 3: “10 km run” | Pass |
| U004 | Medical Professional read Treatment Plan | Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Patient: “Susan Wang” | Pass |
| U004 | Medical Professional update Treatment Plan | Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Patient: “Susan Wang”  *Note \*checklist widget of current scenario\**  Task 1: “200 push up” | Pass |
| U004 | Medical Professional delete Treatment Plan | Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Patient: “Susan Wang”  Note \*Delete Susan’s Meter Widget\* | Pass |
| U005 | Medical Professional create Patients’ Medical Condition  Medical Professional read Patients’ Medical Condition  Medical Professional update Patients’ Medical Condition  Medical Professional delete Patients’ Medical Condition | Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Patient: “Susan Wang”  Diagnostic: Panic Disorder  Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Patient: “Susan Wang”  Diagnostic: Social Anxiety Disorder  Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Patient: “Susan Wang” | Pass  Pass  Pass  Fail |
| U006 | Medical Professional create Appointment Time  Medical Professional read Appointment Time  Medical Professional update Appointment Time  Medical Professional delete Appointment Time | Medical Professional: “Mediana Maz”  Patient: “Susan Wang”  Appointment Time: *\*The next 10 day of current date of test 2:00 p.m.*  Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Patient: “Susan Wang”  Medical Professional: “Mediana Maz”  Patient: “Susan Wang”  Appointment Time: *\*The next 14 day of current date of test plan 2:00 p.m.*  Medical Professional: “Mediana Maz”  Patient: “Susan Wang”  Appointment Time: *\*The next 10 day of current date of test plan 2:00 p.m.* | Pass  Pass  Fail  Pass |

Set B) Patient have data access to the following data:

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U007 | Patient creating an account | First Name: “Garrett”  Last Name: “Pauley”  Username: “surferdude34”  Password: “hang10bruhar”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Island’s Burgers”  Security Question 2: “What is your favorite song?  Answer: “Mahalo”  Security Question 3: “What was the name of your first crush?”  Answer: “Mekayla”  Medical Professional Code: Mediana Maz’s MP Code | Pass |
| U008 | Patient editing their password | Username: “surferdude34”  Answer 1: “Island’s Burgers”  Answer: “Mahalo”  Answer: “Mekayla”  New password: “hang10bruh” | Pass |
| U009 | Patient create Treatment Plan  Patient read Treatment Plan  Patient update Treatment Plan  Patient delete Treatment Plan | Treatment Info:  Medical Professional: “Mediana Maz”  Patient: “Garrett Pauley”  Type: “Meter Widget”  Time: *\*The current date of test plan*  Username: “surferdude34”  Password: “hang10bruhar”  Treatment Info:  Time: *\*The current date of test plan*  Type: Meter Widget  Info: 7  Treatment Info:  Time: *\*The current date of test plan*  Type: Meter Widget | Fail  Pass  Pass  Fail |
| U0010 | Patient create Patients’ Medical Condition  Patient read Patients’ Medical Condition  Patient update Patients’ Medical Condition  Patient delete Patients’ Medical Condition | Medical Professional: “Mediana Maz”  Patient: “Garrett Pauley”  Diagnosis: “Panic Disorder”  Username: “surferdude34”  Password: “hang10bruhar”  Medical Professional: “Mediana Maz”  Patient: “Garrett Pauley”  Diagnosis: “Social Anxiety Disorder”  Medical Professional: “Mediana Maz”  Patient: “Garrett Pauley”  Diagnosis: “Social Anxiety Disorder” | Fail  Pass  Fail  Fail |
| U0011 | Patient create Appointment Time  Patient read Appointment Time  Patient update Appointment Time  Patient delete Appointment Time | Patient: “Garrett Pauley”  Medical Professional: “Mediana Maz”  Appointment Time: *\*The next 7 day of current date of test 2:00 p.m.*  Username: “surferdude34”  Password: “hang10bruhar”  Patient: “Garrett Pauley”  Medical Professional: “Mediana Maz”  Appointment Time: *\*The next 14 day of current date of test 2:00 p.m.*  Patient: “Garrett Pauley”  Medical Professional: “Mediana Maz”  Appointment Time: *\*The next 7 day of current date of test 2:00 p.m.* | Pass  Pass  Fail  Pass |

## 

## 

## **User Management**

The following Unit Test will encompass the following scenarios for *User Management*: creating medical professional/patients, editing their credentials (Password), creating and terminating user sessions. Through the following *User Management Unit Tests*, the team has decided to only test the individual functionalities in *User Management* and will not test incorrect inputs for each test case scenario as those scenarios are addressed in *Error Handling Unit Testing*. The following test case scenarios are:

Set A) *Creating medical professional/patients*

1. Registering a Medical Professional
2. Registering a Patient

Set C) *Creating and terminating user sessions*

1. Create Medical Professional User Session
2. Terminate Medical Professional User Session
3. Create Patient User Session
4. Terminate Patient User Session

Set D) *Editing credentials (Password)*

1. Medical Professional editing Credentials
2. Patient editing Credentials

The following are the set of data that will be used throughout the testing for Data Access in Unit Testing. In addition there will be already data from *End-to-End and Validation Testing* that will already be existing in the database which are:

* System Administrator 1
* Medical Professional 1
* Patient 1 and 2
* Treatment Plans 1 and 2
* Appointments 1 and 2

This data is represented in the table below. Furthermore, for these test case scenarios it will be assumed that Medical Professional 2 hasn’t been made until the completion of Scenario 1 and Patient 3 hasn’t been made until Scenario 2.

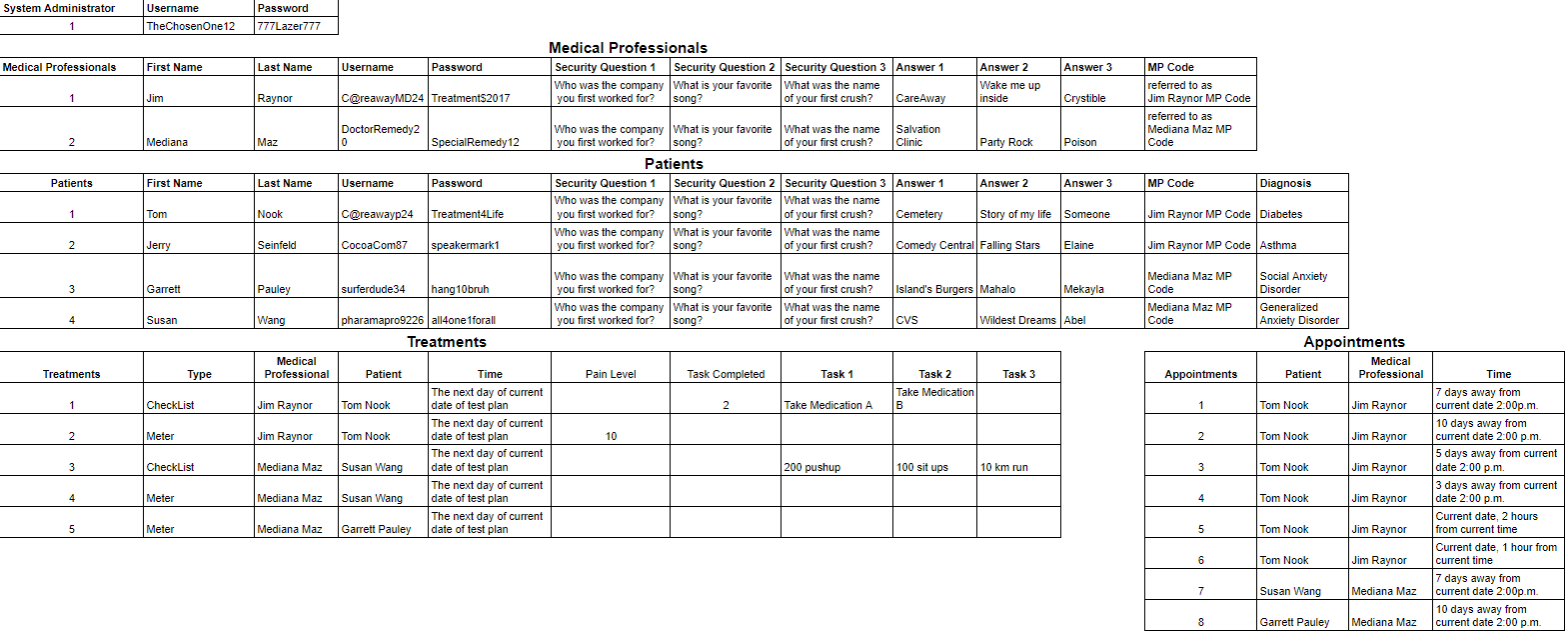
The data per scenario will be

Scenario 1 and 2)

* System Administrator 1
* Medical Professional 1
* Patient 1 and 2
* Treatment Plans 1 and 2
* Appointments 1 and 2

Scenario 3-8)

* Medical Professional 1 and 2
* Patient 1, 2,3 ,4
* Treatment Plans 1, 2, 3,4, 5
* Appointments 1, 2, 3, 4



Set A) *Creating medical professional/patients*

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U001 | Registering a Medical Professional | First Name: “Mediana”  Last Name: “Maz”  Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Salvation Clinic”  Security Question 2: “What is your favorite song?”  Answer 2: “Party Rock”  Security Question 3: “What was the name of your first crush?”  Answer 3: “Poison” | Pass |
| U002 | Registering a Patient | First Name: “Garrett”  Last Name: “Pauley”  Username: “surferdude34”  Password: “hang10bruhar”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Island’s Burgers”  Security Question 2: “What is your favorite song?  Answer: “Mahalo”  Security Question 3: “What was the name of your first crush?”  Answer: “Mekayla”  Medical Professional Code: Mediana Maz’s MP Code | Pass |

Set B) *Creating and terminating user sessions*

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U003 | Create Medical Professional User Session | Medical Professional Credentials:  Username: “DoctorRemedy20”  Password: “SpecialRemedy123” | Pass |
| U004 | Terminate Medical Professional User Session | Log out  Username: “DoctorRemedy20” | Pass |
| U005 | Create Patient User Session | Patient Credentials  Username: “surferdude34”  Password: “hang10bruhar” | Pass |
| U006 | Terminate Patient User Session | Log out  Username: “surferdude34” | Pass |

Set C) Medical Professional access to their functionalities

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U007 | Medical Professional editing Credentials | Username: “DoctorRemedy20”  Answer 1: “Salvation Clinic”  Answer 2: “Party Rock”  Answer 3: “Poison”  New Password: “SpecialRemedy12” | Pass |
| U008 | Patient editing Credentials | Username: “surferdude34”  Answer 1: “Island’s Burgers”  Answer: “Mahalo”  Answer: “Mekayla”  New password: “hang10bruh” | Pass |

Set D) Patient access their functionalities

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U0022 | Patient interacting with their treatment plan | Patient Info:   * First Name: Susan * Last Name: Wang   Treatment Plan:   * Type: CheckList Widget * Task 1: Incomplete (change to complete) | Pass |
| U0023 | Patient creating a treatment plan | Patient Info:   * First Name: Susan * Last Name: Wang   Treatment Info:   * Type: CheckList Widget * Task 1: Listen to soothing music * Task 2: Fall Asleep | Fail |
| U004 | Patient creating an appointment with their medical professional | Patient Info:   * First Name: Susan * Last Name: Wang   Medical Professional Info:   * First Name: Mediana Maz * Last Name: Maz * Medical Professional Code:   Appointment Time:   * Time: March 31, 2018 | Pass |

## **Security**

The following Unit Test will encompass the following scenarios and will begin in sequential order. All subsequent scenarios will have pre made data as specified below for each scenario case. We have addressed other security components such as authentication access, session termination, and registration under *User Management Unit Testing* and will refer to those unit test for security components. The scenario cases that will be tested under security is:

1. System Administrator sends breach notification

Test cases for authentication access, session termination, and registration will refer to these *User Management Unit Testing* U001- U006

The following are the set of data that will be used throughout the testing for Data Access in Unit Testing. In addition there will be already data from *End-to-End and Validation Testing* that will already be existing in the database in addition to the currently existing data made in *Data Access Unit Testing*

For Security Unit Testing the team will focus mainly on this data set:

System Administrator:

* Username: TheChosenOne12
* Password: 777Lazer777

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U001 | Send Breach notification reports | Username: “TheChosenOne12”  Password: “777Lazer777” | Pass |

## **User Access Control**

The following Unit Test will encompass the testing of individual functionalities in the *User Access Control* requirement. The main scenarios to test *User Access Control* are medical professional access their functionalities (patient data, creating appointments, creating treatments) and patient access to their functionalities (Completing their treatment plan, creating appointments). For the checking of invalid method access or functionalities, the team has decided not to provide testings for those individual components due to the limitation of time and as it is not part of our scope. Furthermore, all error checking is addressed in the Unit Testing for *Error Handling* so those test scenarios can be found in that section of the Unit Testing and will not be addressed in this Unit Test. In addition, the test case for Medical Professional and Patient requesting an appointment have been addressed in *Data Access Unit Testing* so the test case scenario will refer back to that Unit Test Case. The following scenario cases are:

Set A) *Medical Professional User Access Control*

1. Medical professional can edit their own account data.
2. Medical professional has access to their own appointments.
3. Medical professional is able to revise treatment plans
4. Medical professional request an appointment with their patient. (Refer to Data Access)

Set B) *Patient User Access Control*

1. Patient can edit their own account data.
2. Patient has access to their own appointments.
3. Patient can access their treatment
4. Patients can request an appointment. (Refer to Data Access)

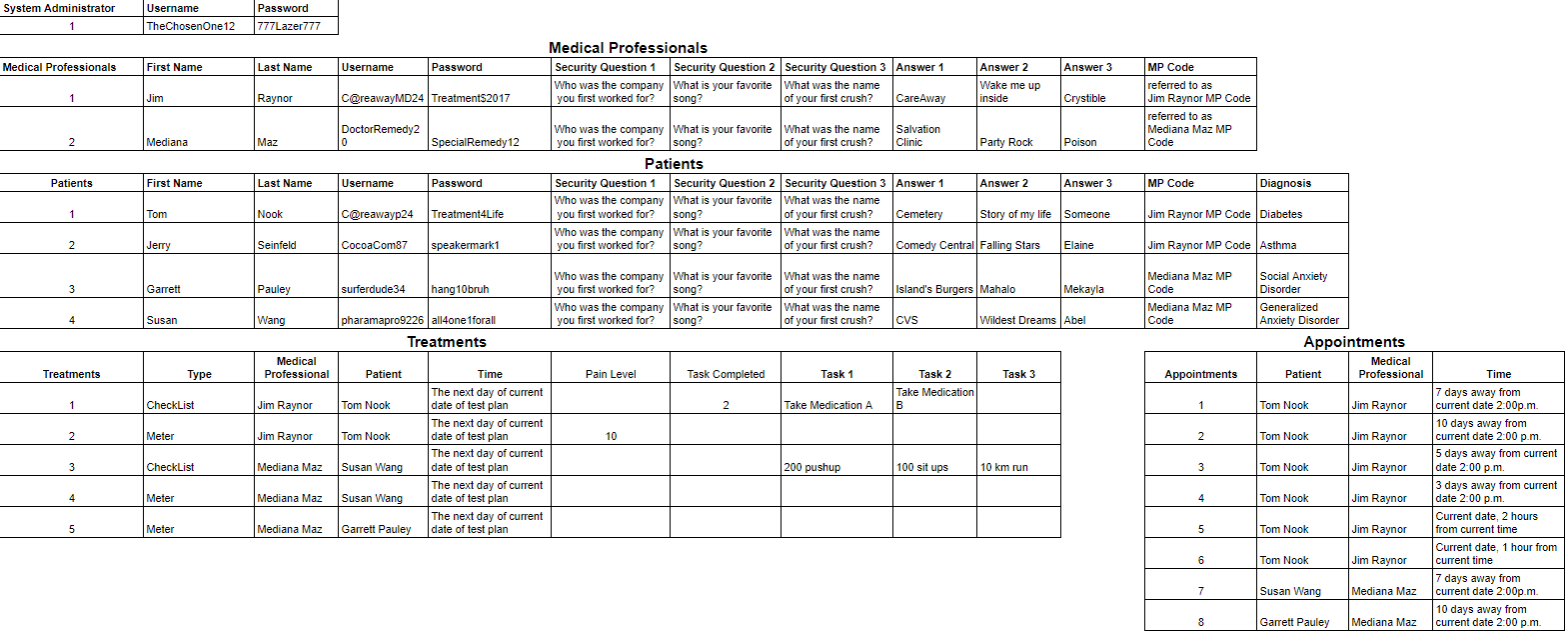
The following are the set of data that will be used throughout the testing for Data Access in Unit Testing. In addition there will be already data from *End-to-End and Validation Testing* that will already be existing in the database which are:

* System Administrator 1
* Medical Professional 1
* Patient 1 and 2
* Treatment Plans 1 and 2
* Appointments 1 and 2

This data is represented in the table below. Furthermore, all data on the table should be inserted into the database already and is readily avaliable throughout the testing of each case scenarios for *User Access Control*.

Scenario 1-8)

* System Administrator 1
* Medical Professional 1 and 2
* Patient 1, 2,3 ,4
* Treatment Plans 1, 2, 3,4, 5
* Appointments 1, 2, 3, 4



Set A) *Medical Professional User Access Control*

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U001 | Medical professional can edit their own account data. (Password) | Medical Professional Info:   * Username: “DoctorRemedy20” * Security Question Answer 1: “Salvation Clinic” * Security Question Answer 2: “Party Rock” * Security Question Answer 3: “Poison”   New Password: “SpecialRemedy123” | Pass |
| U002 | Medical professional has access to their own appointments. | Medical Professional Info:   * Username: IcareYoucare23 * Password: BeingCareful12 | Pass |
| U003 | Medical professional is able to revise treatment plans | Medical Professional Info:   * Username: IcareYoucare23 * Password: BeingCareful12   Patient : “Susan Wang”  Treatment Plan Data:   * Time: *\*The next day of current date of test plan* * Add Task 4: “walk for 3 hours” | Pass |

*\*Note: Please refer back to Data Access Unit Testing for U004 Accessing Appointments which is under test case 6 in Data Access*

*\*After U001 Reset the Password again back to “*SpecialRemedy12*”*

Set B)*Patient User Access Control*

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U005 | Patient can view and edit their own password | Patient Request Info:   * Username: “pharamapro9226” * Security Question Answer 1: “CVS” * Security Question Answer 2: “Wildest Dreams” * Security Question Answer 3: “Abel”   New Password: “all4one1forallfour” | Pass |
| U006 | Patient has access to their own medical data (treatment plan). | Username: “pharamapro9226”  Password: *“all4one1forall”* | Pass |
| U007 | Patient can access their treatment | Username: “pharamapro9226”  Password: *“all4one1forall”* | Pass |

*\*Note: Please refer back to Data Access Unit Testing for U0011 Accessing Appointments which is under test case 6 in Data Access*

*\*After U004 Reset the Password again back to “all4one1forall”*

## 

## 

## 

## 

## **Error Handling**

The following Unit Test will encompass the following scenarios for *Error Handling* which encompasses Inserting invalid data during Registration, Inserting invalid data during Login, Inserting invalid data during treatment creation, Inserting invalid data for appointment request. The following Test Case Scenarios for Error Handling are:

Set A) Invalid Patient Registration Data

1. Insert incorrect Username during creation of a Patient
2. Insert incorrect Password during creation of a Patient
3. Insert incorrect First Name during creation of a Patient
4. Insert incorrect Last Name during creation of a Patient
5. Insert incorrect Security Question Answer during creation of a Patient
6. Insert incorrect Medical Professional code into Patient accounts
7. Insert pre-existing Patient

Set B) Invalid Patient Registration Data

1. Insert incorrect Username during creation of a Medical Professional
2. Insert incorrect Password during creation of a Medical Professional
3. Insert incorrect First Name during creation of a Medical Professional
4. Insert incorrect Last Name during creation of a Medical Professional
5. Insert incorrect Security Question Answer during creation of a Medical Professional
6. Insert pre-existing Medical Professional

Set B)

1. Create User session with invalid username
2. Create User session with invalid password

Set C)

1. Create a checklist widget that already exist
2. Creating a empty checklist widget
3. Create a meter widget that already exist

Set D)

1. Creating an appointment in the past
2. Accepting a appointment when time is already occupied
3. Approving an appointment 24 hours before appointed date

Set E)

1. Insert invalid username in “Forgot Password” view
2. Insert invalid Security Question Answers
3. Insert mismatched passwords

The following are the set of data that will be used throughout the testing for Data Access in Unit Testing. In addition there will be already data from *End-to-End and Validation Testing* that will already be existing in the database which are:

* System Administrator 1
* Medical Professional 1
* Patient 1 and 2
* Treatment Plans 1 and 2
* Appointments 1 and 2

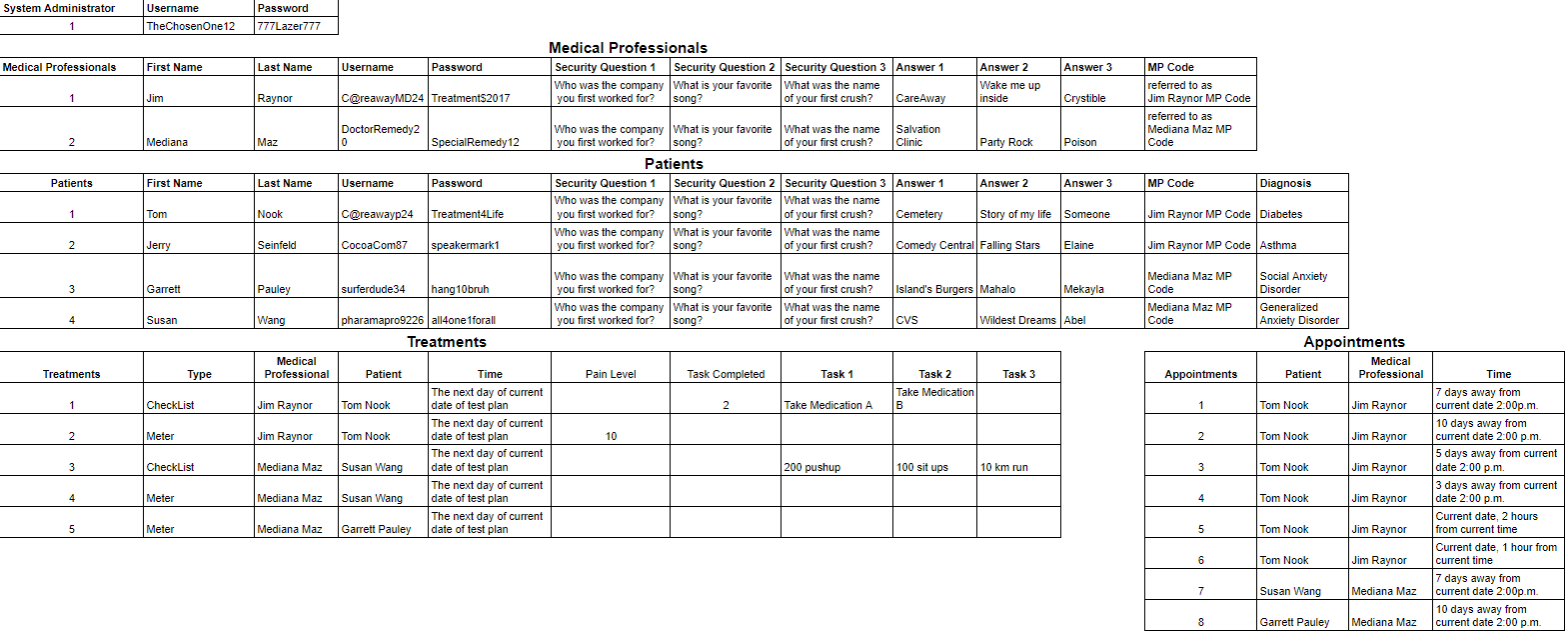
This data is represented in the table below. Furthermore, for these test case scenarios it will be assumed that Medical Professional 2 and Patient 3 and 4 have not been made until the start of scenario 14 in the *Error Handling Unit Testing*

Scenario 1-14)

* System Administrator 1
* Medical Professional 1
* Patient 1 and 2
* Treatment Plans 1 and 2
* Appointments 1 and 2

Scenario 15-24)

* Medical Professional 1 and 2
* Patient 1, 2,3 ,4
* Treatment Plans 1, 2, 3,4, 5
* Appointments 1, 2, 3, 4



Set A) *Invalid Patient Registration Data*

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U001 | Insert incorrect Username during creation of a Patient | First Name: “Garrett”  Last Name: “Pauley”  Username: “s”  Password: “hang10bruhar”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Island’s Burgers”  Security Question 2: “What is your favorite song?  Answer: “Mahalo”  Security Question 3: “What was the name of your first crush?”  Answer: “Mekayla”  Medical Professional Code: Mediana Maz’s MP Code | Fail |
| U002 | Insert incorrect Password during creation of a Patient | First Name: “Garrett”  Last Name: “Pauley”  Username: “surferdude34”  Password: “h”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Island’s Burgers”  Security Question 2: “What is your favorite song?  Answer: “Mahalo”  Security Question 3: “What was the name of your first crush?”  Answer: “Mekayla”  Medical Professional Code: Mediana Maz’s MP Code | Fail |
| U003 | Insert incorrect First Name during creation of a Patient | First Name: “Garrett123”  Last Name: “Pauley”  Username: “surferdude34”  Password: “hang10bruhar”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Island’s Burgers”  Security Question 2: “What is your favorite song?  Answer: “Mahalo”  Security Question 3: “What was the name of your first crush?”  Answer: “Mekayla”  Medical Professional Code: Mediana Maz’s MP Code | Fail |
| U004 | Insert incorrect Last Name during creation of a Patient | First Name: “Garrett”  Last Name: “Pauley123”  Username: “surferdude34”  Password: “hang10bruhar”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Island’s Burgers”  Security Question 2: “What is your favorite song?  Answer: “Mahalo”  Security Question 3: “What was the name of your first crush?”  Answer: “Mekayla”  Medical Professional Code: Mediana Maz’s MP Code | Fail |
| U005 | Insert incorrect Security Question Answer during creation of a Patient | First Name: “Garrett”  Last Name: “Pauley”  Username: “surferdude34”  Password: “hang10bruhar”  Security Question 1: “Who was the company you first worked for?”  Answer 1: \*blank/undefined  Security Question 2: “What is your favorite song?  Answer: \*blank/undefined  Security Question 3: “What was the name of your first crush?”  Answer: \*blank/undefined  Medical Professional Code: Mediana Maz’s MP Code | Fail |
| U006 | Insert incorrect Medical Professional code into Patient accounts | First Name: “Garrett”  Last Name: “Pauley”  Username: “surferdude34”  Password: “hang10bruhar”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Island’s Burgers”  Security Question 2: “What is your favorite song?  Answer: “Mahalo”  Security Question 3: “What was the name of your first crush?”  Answer: “Mekayla”  Medical Professional Code: -`=!)@!~ | Fail |
| U007 | Insert pre-existing Patient | First Name: “Tom”  Last Name: “Nook”  Username: “C@reawayMD24”  Password: “Treatment$2017”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “CareAway”  Security Question 2: “What is your favorite song?  Answer: “Wake me up inside”  Security Question 3: “What was the name of your first crush?”  Answer: “Crystible”  Medical Professional Code: Jim Raynor’s MP Code | Fail |

Set B) *Invalid Medical Professional Registration Data*

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U008 | Insert incorrect Username during creation of a Medical Professional | First Name: “Mediana”  Last Name: “Maz”  Username: “D”  Password: “SpecialRemedy123”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Salvation Clinic”  Security Question 2: “What is your favorite song?”  Answer 2: “Party Rock”  Security Question 3: “What was the name of your first crush?”  Answer 3: “Poison” | Fail |
| U009 | Insert incorrect Password during creation of a Medical Professional | First Name: “Mediana”  Last Name: “Maz”  Username: “DoctorRemedy20”  Password: “S”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Salvation Clinic”  Security Question 2: “What is your favorite song?”  Answer 2: “Party Rock”  Security Question 3: “What was the name of your first crush?”  Answer 3: “Poison” | Fail |
| U0010 | Insert incorrect First Name during creation of a Medical Professional | First Name: “Mediana131”  Last Name: “Maz”  Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Salvation Clinic”  Security Question 2: “What is your favorite song?”  Answer 2: “Party Rock”  Security Question 3: “What was the name of your first crush?”  Answer 3: “Poison” | Fail |
| U0011 | Insert incorrect Last Name during creation of a Medical Professional | First Name: “Mediana”  Last Name: “Maz1231”  Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “Salvation Clinic”  Security Question 2: “What is your favorite song?”  Answer 2: “Party Rock”  Security Question 3: “What was the name of your first crush?”  Answer 3: “Poison” | Fail |
| U0012 | Insert incorrect Security Question Answer during creation of a Medical Professional | First Name: “Mediana”  Last Name: “Maz”  Username: “DoctorRemedy20”  Password: “SpecialRemedy123”  Security Question 1: “Who was the company you first worked for?”  Answer 1: \*blank/undefined  Security Question 2: “What is your favorite song?”  Answer 2: \*blank/undefined  Security Question 3: “What was the name of your first crush?”  Answer 3: \*blank/undefined | Fail |
| U0013 | Insert pre-existing Medical Professional | First Name: “Jim”  Last Name: “Raynor”  Username: “C@reawayMD24”  Password: “Treatment$2017”  Security Question 1: “Who was the company you first worked for?”  Answer 1: “CareAway”  Security Question 2: “What is your favorite song?”  Answer 2: “Wake me up inside”  Security Question 3: “What was the name of your first crush?”  Answer 3: “Crystible” | Fail |

Set C) Incorrect User Session

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U0014 | Create User session with invalid username | User Login:   * Username: NotanAccount12 * Password: all4one1forall | Fail |
| U0015 | Create User session with invalid password | User Login:   * Username: pharamapro9226 * Password: NotanAccount12 | Fail |

Set D) Inserting incorrect widgets Errors

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U0016 | Create a checklist widget that already exist | Input Time Checklist widget:   * Medical Professional: “Mediana Maz” * Patient: “Susan Wang” * Time: *\* The next day of current date of test plan* * Type: Checklist Widget | Fail |
| U0017 | Creating a empty checklist widget | Treatment Plan input:   * Medical Professional: “Mediana Maz” * Patient: “Susan Wang” * Time: *\* The next day of current date of test plan* * Type: Checklist Widget | Fail |
| U0018 | Create a meter widget that already exist | Treatment Plan input:   * Medical Professional: “Mediana Maz” * Patient: “Susan Wang” * Time: *\* The next day of current date of test plan* * Type: Meter widget | Fail |

Set D) Appointment Scheduling Errors

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U0019 | Creating an appointment in the past | Medical Professional   * First name: Mediana * Last name: Maz   Patient   * First Name: Susan * Last Name: Wang   Appointment Time:   * Time: 7 days away from current date 2:00 p.m. | Fail |
| U0020 | Accepting a appointment when time is already occupied | Medical Professional   * First name: Mediana * Last name: Maz   Patient   * First Name: Susan * Last Name: Wang   Appointment Time:   * Time: 7 days away from current date 2:00 p.m. | Fail |
| U0021 | Approving an appointment 24 hours before appointed date | Medical Professional   * First name: Mediana * Last name: Maz   Patient   * First Name: Susan * Last Name: Wang   Appointment Time:   * Time: 24 hours before appointment date | Fail |

Set D) Resetting Credential Errors

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Test Cases** | **Input Value** | **Expected Output** |
| U0022 | Insert invalid username in “Forgot Password” view | Username: “DoctorRemedy2000000” | Fail |
| U0023 | Insert invalid Security Question Answers | Username: “DoctorRemedy20”  Answer 1: “Salvation Clinic1”  Answer 2: “Party Rock1”  Answer 3: “Poison1” | Fail |
| U0024 | Insert mismatched passwords | Username: “DoctorRemedy20”  Answer 1: “Salvation Clinic”  Answer 2: “Party Rock”  Answer 3: “Poison”  New Password: “Sweet Beans”  Enter Password again: “and Cat Jelly” | Fail |

# 

# **Regression Testing**

Our team will be conducting Unit Testing on the following components Data Access, User Management, Security, User Access Control, Error Handling, Network Communication. Our team will be executing unit test in order to test each individual behavior of a module in our application. Each Unit Test will specify how each module should act based on the criterias inputted.

## **Test Case Definitions**

*Scenario* - This refers to the current scenario of the component the tester will be evaluating

*Execution Strategy* - This refers to the steps that the tester will have to go through to perform verification and validation of the component. These steps are meant to be followed in the order they are written.

*Test Entry Criteria* - This refers to any preconditions that will have to be setup before the tester performs any of the actions in the Execution Strategy.

*End to End Test Pass Criteria* - This refers to the benchmark by which the component will be tested against. The tester must see and be able to reproduce all of the items listed in this section while performing the Execution Strategy. Otherwise, the component will have failed and must be fixed.

*Test Exit Criteria* - This refers to the condition by which the test concludes. However, for the test to conclude, the tester must see and be able to reproduce all of the items listed in the Test Pass Criteria section.

*End to End* *Test Fail Criteria* - This refers to the condition by which the component will be deemed a failure. If the tester sees any of these conditions, the component will have failed and must be fixed.

## **Test Case Scenarios**

The following are the test case scenarios for regression testing, please note that since the end-to-end testing (used as the testing method throughout regression testing) are made for *Registration, Authentication/Session Termination/ Treatment Plan Creation and Revision,Interacting with Treatment Plan, Appointment Scheduling, Data Analysis Report*: the team will refer back to End-to-End and Validation Testing for these case scenarios.

**Registration Scenarios**:

* Registering a Medical Professional
* Registering a Patient
* Invalid Registration inputs

**Authentication/Session Termination Scenarios**:

* Medical Professional, Patient and System Login/ Log out
* Resetting Credentials
* Invalid Login Credentials
* Invalid Reset Credentials input

**Treatment Plan Creation/Revision Scenarios:**

* Setting Patient Diagnosis
* Creating/Editing a valid Checklist Widget
* Creating/Editing a valid Meter Widget
* Attempting to create an Invalid Treatment

**Interacting with Treatment Plan Scenarios:**

* Completing a task on a check list widget
* Complete the Meter Widget
* Attempt to change a value that’s not on the current date

**Appointment Scheduling Scenarios:**

* Patient/Medical Professional creating an appointment
* Patient/Medical Professional attempting to create an invalid appointment
* Patient/Medical Professional accepting/declining an appointment

**Data Analysis Reports Scenarios:**

* Generate Data Analysis Report with Patient Data
* Generate Data Analysis Report with no Patient Data

**Data Access Scenarios:**

* Medical Professional’s data
* Patient’s data

**User Management Scenarios:**

* Creating Medical Professional/Patients
* Editing their Credentials (Password)
* Creating/Terminating User Sessions

**Security Scenarios:**

* Sending Breach Notification Reports

**User Access Control Scenarios:**

* Medical Professional Access their functionalities (patient data, creating appointments, creating treatments)
* Patient Access to their functionalities (Completing their treatment plan, creating appointments)

**Error Handling Scenarios:**

* Inserting invalid data during Registration
* Inserting invalid data during Login
* Inserting invalid data during treatment creation
* Inserting invalid data for appointment request

**Network Communication Scenarios:**

* Connecting to the CareAway application

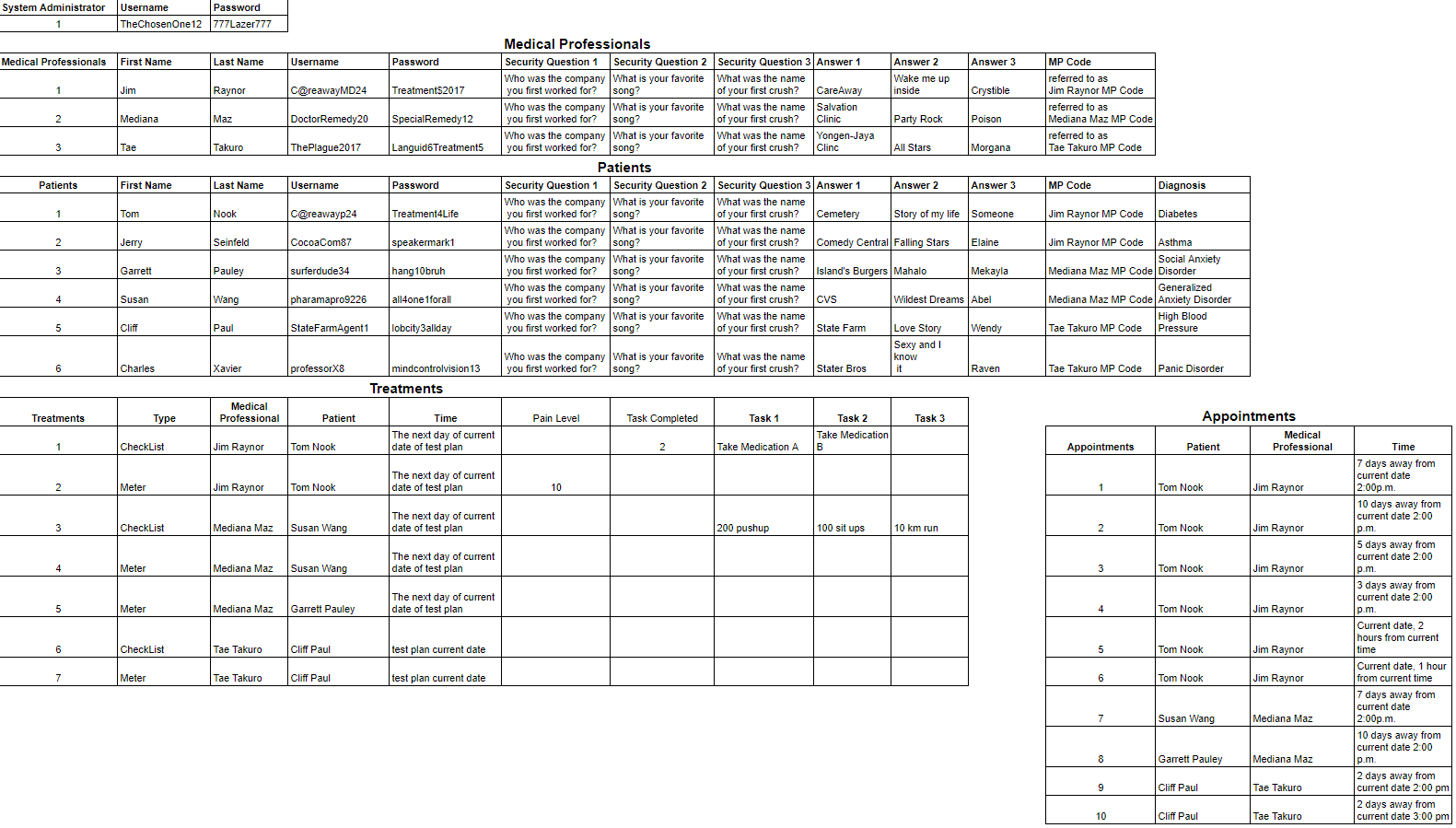
## **Test Data**

For each test case, throughout each test case scenario each test case will specify the data that will be created or already created in the introduction of each test case. For all test cases in Unit Testing, all data from End to End and Validation Testing and Unit Testing will already be provided in the database and may be used throughout the test case scenarios throughout Unit Testing. The following data from End to End and Validation Testing are

* System Administrator 1
* Medical Professional 1, 2
* Patient 1, 2, 3 ,4
* Treatment Plans 1, 2, 3,4,5
* Appointments 1 2 3 4 5 6,7, 8

*\*Please refer to the Data Table on the next page to find the appropriate association for each data*

In addition, the Data Table includes all data that will be utilized throughout Regression Testing. Many data on the data table such as Medical Professional 3 and Patient 4 and 5 will be created in User Management Test Case Scenario, and other data as followed. Please refer to each Test Case to find further explanation of the data utilized throughout each test case scenario.



## **Registration**

For Registration, refer to End to End and Validation Testing for the test case scenarios and execution strategies.

## **Authentication/Session Termination**

For Authentication and Session Termination, refer to End to End and Validation Testing for the test case scenarios and execution strategies.

## **Treatment Plan Creation and Revision**

For Treatment Plan Creation and Revision refer to End to End and Validation Testing for the test case scenarios and execution strategies.

## **Treatment Plan Interaction**

For Treatment Plan Interaction, refer to End to End and Validation Testing for the test case scenarios and execution strategies.

## **Data Analysis Reports**

For Data Analysis Reports, refer to End to End and Validation Testing for the test case scenarios and execution strategies.

## **Appointment Scheduling**

For Appointment Scheduling, refer to End to End and Validation Testing for the test case scenarios and execution strategies.

## **Data Access**

The following will contain possible scenarios that deals with data access within our application for Medical Professionals and Patients. For scenarios for Resetting Credentials,valid data criteria can be found in the Registration business requirement description on page 19 - 20 of the Business Requirements Document.

Set A)

1. Medical Professional Login and viewing their Medical Professional Code
2. Medical Professional Resetting Credentials
3. Medical Professional reading their patient data
4. Medical Professional adding patient diagnosis
5. Medical Professional editing patient diagnosis
6. Medical Professional editing a treatment plan
7. Medical Professional reading appointment time

Set B)

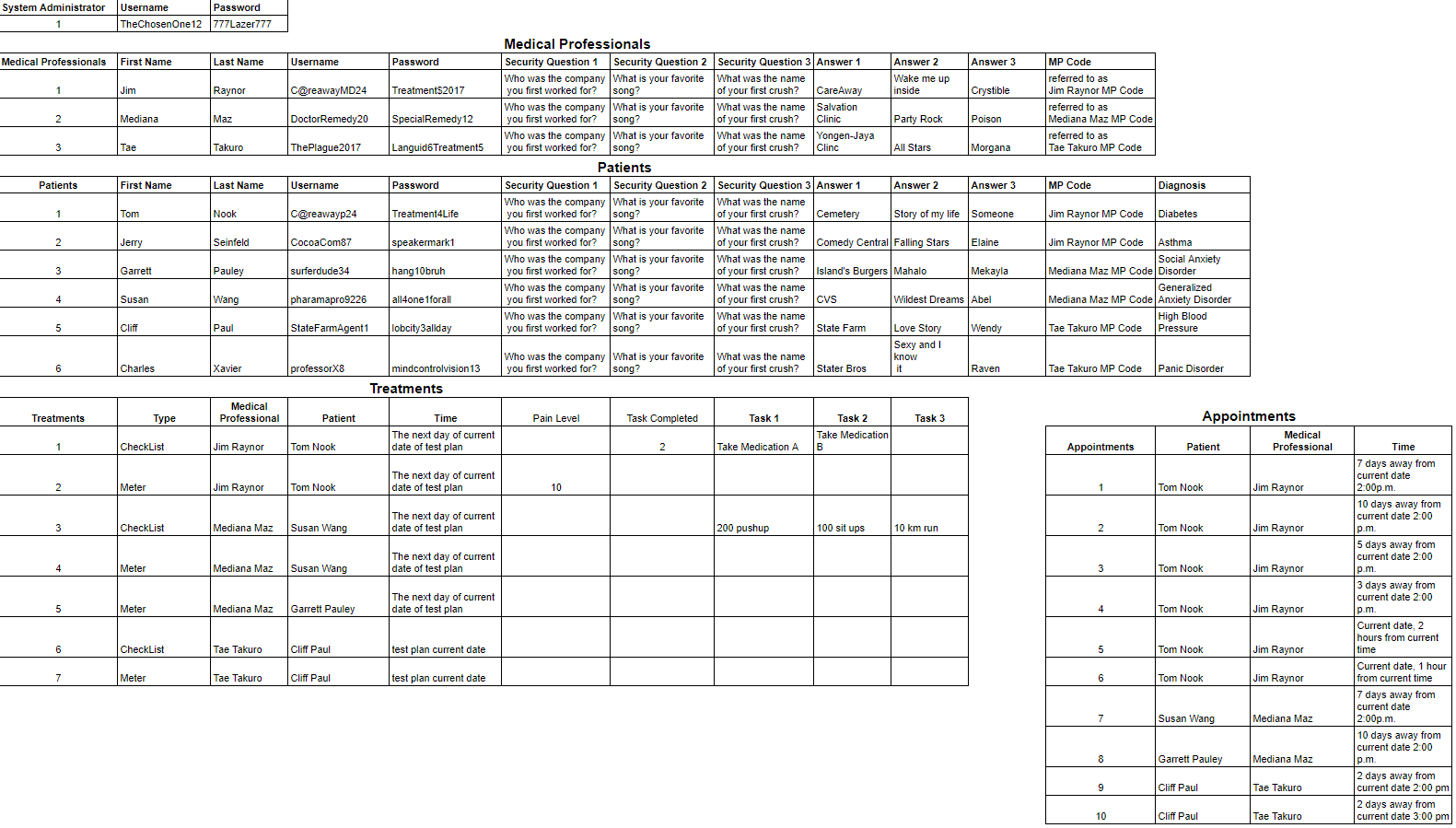
1. Patient login
2. Patient resetting credentials
3. Patient interacting with a treatment plan
4. Patient reading appointment time

The following are the set of data that will be used throughout the testing for *User Management* in Regression Testing. In addition, there will already be data loaded from End-To-End and Validation Testing and Unit Testing that will be existing in the database which are:

* System Administrator: 1
* Medical Professional: 1 and 2
* Patient 1,2,3 4
* Treatment Plan: 1, 2, 3, 4,5
* Appointment: 1, 2 ,3 ,4

For Scenario 1-11 all data below is already inputted into the system

* System Administrator: 1
* Medical Professional: 1 2 3
* Patient 1,2,3 4,5,6
* Treatment Plan: 1, 2, 3, 4,5,6,7
* Appointment: 1, 2 ,3 ,4,5,6,7,8,9,10



Set A)

|  |  |
| --- | --- |
| Scenario: 1 | Medical Professional Login and viewing their Medical Professional Code |
| Execution Strategy: | 1. Enter “ThePlague2017” in Username Field 2. Enter “Languid6Treatment5” in Password Field 3. Submit Data |
| Pre-  Condition | The Medical Professional database has a warm start (request has been sent) and Tae Takuro is registered in the database. The Medical Professional is also located on the Login Page. |
| End to End Test Pass Criteria | 1. Medical Professional is redirected to their account page 2. Medical Professional session was created |
| Post-  Condition | The Medical Professional is currently located on their account page  The logged in Medical Professional can see Cliff Paul and Charles Xavier as their patients. The Medical Professional can see their Medical Professional Code |
| End to End Test Fail Criteria | 1. Medical Professional was not redirected to their overview page 2. Medical Professional session was not created 3. Medical Professional can not see their Medical Professional Code |

|  |  |
| --- | --- |
| Scenario: 2 | Medical Professional Resetting Credentials |
| Execution Strategy: | 1. Enter “ThePlague2017” in Username Field 2. Enter “Yongen-Jaya Clinic” as the answer for security question 1 (Who was the company you first worked for?) 3. Enter “All Stars” as the answer for security question 2 ( What is your favorite song?) 4. Enter “Morgana” as the answer for security question 3 (What was the name of your first crush?) 5. Submit inputted data |
| Pre-  Condition | The Medical Professional database has a warm start and Tae Takuro is registered in the database. The Medical Professional is located on the “Forgot my Password” page |
| End to End Test Pass Criteria | 1. The Medical Professional is prompted to enter a new password |
| Post-  Condition | Medical Professional is shown the fields to enter a new password, re-enter their password, and the criteria for a new password. |
| End to End Test Fail Criteria | 1. Medical Professional is shown different security questions they did not choose during their registration after entering their username 2. Medical Professional is not prompted to enter a new password |

|  |  |
| --- | --- |
| Scenario: 3 | Medical Professional reading their patient data |
| Execution Strategy: | 1. The Medical Professional clicks on “Cliff Paul” 2. The Medical Professional clicks on “Charles Xavier” |
| Pre-  Condition | The medical professional Tae Takuro is currently logged into the system and is in the middle of a user session. The patients, Cliff Paul and Charles Xavier, are registered patients under Tae Takuro, Tae Takuro is currently located on their account page. |
| End to End Test Pass Criteria | 1. The medical professional views a menu with the information of Cliff Paul (specified in the datacontext of this unit test) 2. The medical professional views a menu with the information of Charles Xavier (specified in the datacontext of this unit test) |
| Post-  Condition | Medical Professional is currently viewing the information of Charles Xavier and has access to different functionalities (Treatment Plan, Appointment Scheduling, and Creating a Data Analysis Report) for that patient |
| End to End Test Fail Criteria | 1. Medical Professional can not see Cliff Paul or Charles Xavier as their patient 2. Medical Professional sees patients not registered under them 3. Medical Professional sees incorrect information about Cliff Paul 4. Medical Professional sees incorrect information about Charles Xavier |

|  |  |
| --- | --- |
| Scenario: 4 | Medical Professional adding patient diagnosis |
| Execution Strategy: | 1. The Medical Professional clicks on “Cliff Paul” 2. The Medical Professional clicks to drop down menu 3. The Medical Professional selects “Panic Disorder” 4. The Medical Professional Submits Data |
| Pre-  Condition | The medical professional Tae Takuro is currently logged into the system and has a user session. The Patients Cliff Paul and Charles Xavier are registered patients under Tae Takuro, Tae Takuro is currently located on the account page and Cliff Paul does not have any diagnosis assigned under their name in the patient context menu. |
| End to End Test Pass Criteria | 1. The Patient Cliff Paul is assigned a diagnosis of Panic Disorder 2. The Medical Professional can view the new diagnosis under Cliff Paul |
| Post-  Condition | Medical Professional is currently viewing the information of Cliff Paul. |
| End to End Test Fail Criteria | 1. Medical Professional can not see Cliff Paul as their patient 2. Medical Professional sees incorrect information about Cliff Paul 3. Cliff Paul was not assigned Panic Disorder |

|  |  |
| --- | --- |
| Scenario: 5 | Medical Professional editing patient diagnosis |
| Execution Strategy: | 1. The Medical Professional clicks on “Cliff Paul” 2. The Medical Professional clicks to drop down menu 3. The Medical Professional selects “High Blood Pressure” 4. The Medical Professional Submits Data |
| Pre-  Condition | The medical professional Tae Takuro is currently logged into the system and has a user session. The Patients Cliff Paul and Charles Xavier are registered patients under Tae Takuro, Tae Takuro is currently located on the account page and Cliff Paul is assigned a diagnosis of Panic Disorder. |
| End to End Test Pass Criteria | 1. The Patient Cliff Paul is assigned a diagnosis of High Blood Pressure 2. The Medical Professional can view the new diagnosis under Cliff Paul |
| Post-  Condition | Medical Professional is currently viewing the information of Cliff Paul. |
| End to End Test Fail Criteria | 1. Medical Professional can not see Cliff Paul as their patient 2. Medical Professional sees incorrect information about Cliff Paul 3. Cliff Paul was not assigned High Blood Pressure |

|  |  |
| --- | --- |
| Scenario: 6 | Medical Professional editing treatment plan |
| Execution Strategy: | 1. The Medical Professional clicks on Cliff Paul 2. The Medical Professional clicks on the CheckList Widget for Cliff Paul 3. The Medical Professional clicks to edit the Treatment Plan 4. The Medical Professional edits Task 1 to “Take a nap for 2 hours” 5. The Medical Professional submits the data |
| Pre-  Condition | The medical professional Tae Takuro is currently logged into the system and has a user session. The Patients Cliff Paul and Charles Xavier are registered patients under Tae Takuro. Tae Takuro is currently located on their account page and Cliff Paul is assigned Panic Disorder. Cliff Paul has a CheckList treatment plan assigned to him. |
| End to End Test Pass Criteria | 1. The Patient Cliff Paul’s Treatment Plan for that day has Task 1 Task changed to “Take a nap for 2 hours” 2. The Medical Professional can view the new changes to Cliff Paul’s Treatment Plan |
| Post-  Condition | Medical Professional is currently viewing the information of Cliff Paul. |
| End to End Test Fail Criteria | 1. Medical Professional can not see Cliff Paul as their patient 2. Medical Professional see incorrect information about Cliff Paul 3. Cliff Paul Treatment Plan does not have changed data 4. Medical Professional still sees old Treatment Plan data for that Checklist widget |

|  |  |
| --- | --- |
| Scenario: 7 | Medical Professional setting an appointment time |
| Execution Strategy: | 1. Medical Professional clicks on “Appointment” 2. Medical Professional clicks on Cliff Paul 3. Medical Professional selects April 20, 2018 as date 4. Medical Professional selects 2:00 p.m. as time 5. Medical Professional submits the data |
| Pre-  Condition | The medical professional Tae Takuro is currently logged into the system and has a user session. The Patients Cliff Paul and Charles Xavier are registered patients under Tae Takuro, Tae Takuro is currently located on their account page. |
| End to End Test Pass Criteria | 1. The Patient Cliff Paul has a appointment request on April 20, 2018 2. The Medical Professional can see the scheduled appointment on April 20, 2018 on the calendar |
| Post-  Condition | Medical Professional is currently viewing the information of Cliff Paul. |
| End to End Test Fail Criteria | 1. Medical Professional can not see Cliff Paul as their patient 2. Medical Professional sees incorrect information about Cliff Paul 3. Appointment time was not set 4. Appointment time was set to a different date |

Set B)

|  |  |
| --- | --- |
| Scenario: 7 | Patient login |
| Execution Strategy: | 1. Enter “StateFarmAgent1” in Username Field 2. Enter “lobcity3allday” in Password Field 3. Submit Data |
| Pre-  Condition | Cliff Paul is registered in the database. The user is located on the Login Page. |
| End to End Test Pass Criteria | 1. Patient is redirected to their account page 2. Patient session was created |
| Post-  Condition | The Patient is currently located on their account page  The logged in patient can see their treatment plans and appointments |
| End to End Test Fail Criteria | 1. Patient was not redirected to their account page 2. Patient session was not created |

|  |  |
| --- | --- |
| Scenario: 8 | Patient Resetting Credentials |
| Execution Strategy: | 1. Enter “StateFarmAgent1” in Username Field 2. Enter “State Farm” as the answer for security question 1 (What is the name of the first company you worked for?) 3. Enter “Love Story” as the answer for security question 2 (What is your favorite song?) 4. Enter “Wendy” as the answer for security question 3 (What is the name of your first crush? ) 5. Submit inputted data |
| Pre-  Condition | Cliff Paul is registered in the database. The Patient is located on the “Forgot my password” page |
| End to End Test Pass Criteria | 1. The Patient is prompted to enter a new password |
| Post-  Condition | Patient is shown the fields to enter a new password, re-enter their password, and the criteria for a new password. |
| End to End Test Fail Criteria | 1. Patient is shown different security questions they did not choose during their registration after entering their username 2. Patient is not prompted to enter a new password |

|  |  |
| --- | --- |
| Scenario: 9 | Patient interacting with a treatment plan |
| Execution Strategy: | 1. Patient (Cliff Paul) is located on the current day of the treatment plan 2. Patient selects “Completed” for Task 1 3. Patient submits data |
| Pre-  Condition | Cliff Paul is registered in the database. The Patient is also located on their account page. |
| End to End Test Pass Criteria | 1. Patient’s Treatment Plan Task 1 is completed on the checklist widget for that day |
| Post-  Condition | The Patient is currently located on their account page  The logged in Patient can see the new changes they made to the treatment plan |
| End to End Test Fail Criteria | 1. The Treatment Plan does not have Task 1 marked as Completed 2. The patient can’t see their treatment plan |

|  |  |
| --- | --- |
| Scenario: 10 | Patient setting an appointment time |
| Execution Strategy: | 1. Patient clicks on “Appointment” on their account page 2. Patient selects April 21, 2018 as date 3. Patient selects 2:00 p.m. as time 4. Patient submits the data |
| Pre-  Condition | Cliff Paul is registered in the database. The Patient is also located on their account page. |
| End to End Test Pass Criteria | 1. The Medical Professional Tae Takuro has a appointment request on April 21, 2018 2. The Patient can see the scheduled appointment on April 21, 2018 on the calendar |
| Post-  Condition | Cliff Paul is currently located on their account page |
| End to End Test Fail Criteria | 1. Appointment Time was not created 2. Appointment time was set to a different date |

## **User Management**

The following Regression Test will encompass the following scenarios for *User Management*: creating medical professional/patients, editing their credentials (Password), creating and terminating user sessions. These following test case scenarios will ensure that the system fulfills the requirements that were laid out for *User Management*  as specified in the *Business Requirement Document*. The following test case scenarios are:

Set A) *User Registration*

1. User Registers as a Medical Professional
2. User Registers as a Patient

Set B) *Resetting Credentials*

1. Medical Professional resets password
2. Patient reset password

Set C) *Authentication*

1. Medical Professional Logs in
2. Medical Professional Logs out

Set D) *Session termination*

1. Patient Login
2. Patient Logs out

Set E) *System Administrator Login Logout*

1. System Administrator Login
2. System Administrator Logout

The following are the set of data that will be used throughout the testing for *User Management* in Regression Testing. In addition, there will already be data loaded from End-To-End and Validation Testing and Unit Testing that will be existing in the database which are:

* System Administrator: 1
* Medical Professional: 1 and 2
* Patient 1,2,3 4
* Treatment Plan: 1, 2, 3, 4,5
* Appointment: 1, 2 ,3 ,4

For Scenario 1 it is assumed that the Medical Professional Tae Takuro has not been inputted into the system yet so the following data in the Database will be

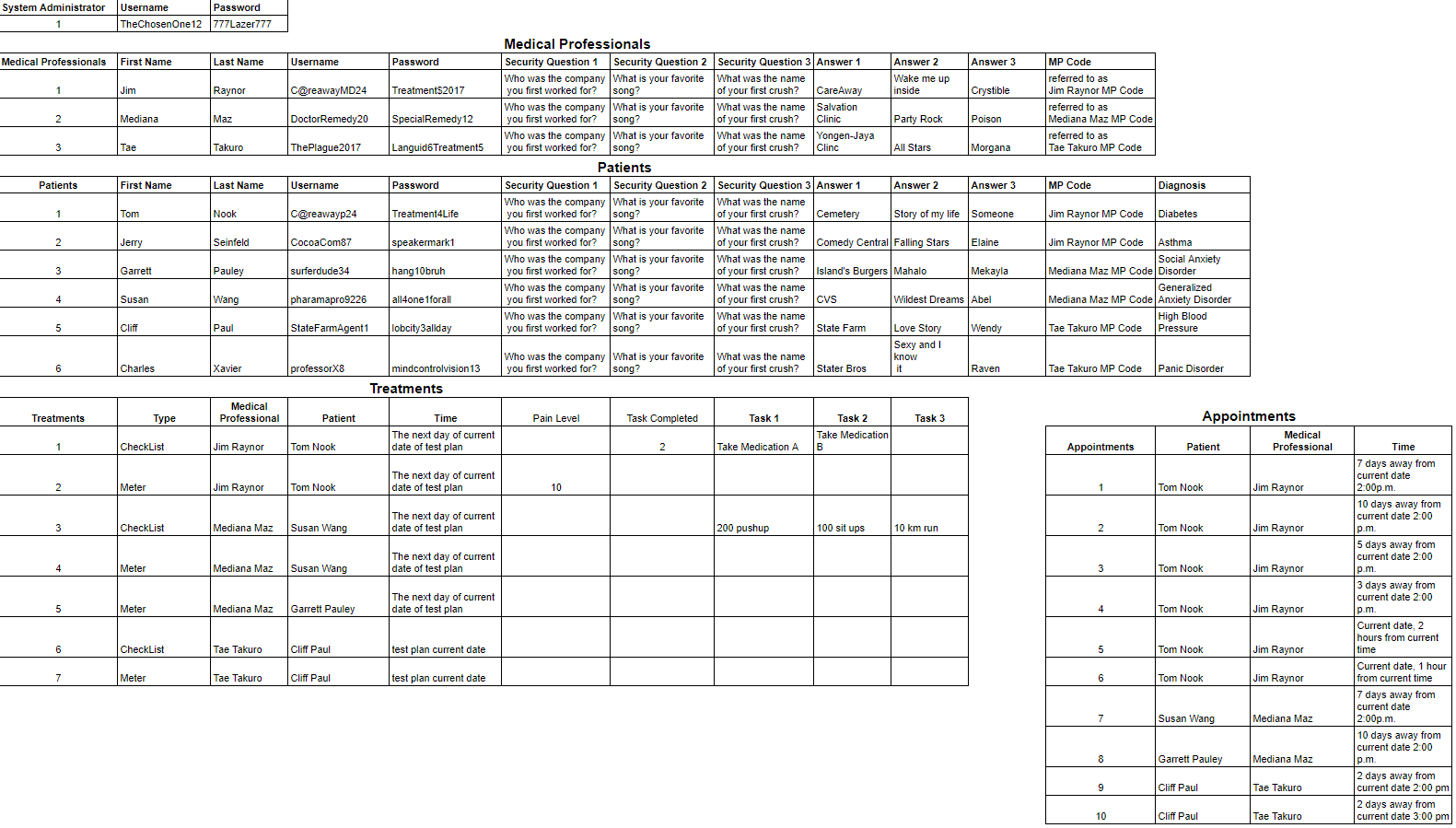
* System Administrator: 1
* Medical Professional: 1 and 2
* Patient 1,2,3 4
* Treatment Plan: 1, 2, 3, 4,5
* Appointment: 1, 2 ,3 ,4

For Scenario 2 it is assumed that the Patients for the Medical Professional Tae Takuro has not been inputted into the system yet so the following data in the Database will be

* System Administrator: 1
* Medical Professional: 1 2 3
* Patient 1,2,3 4
* Treatment Plan: 1, 2, 3, 4,5
* Appointment: 1, 2 ,3 ,4

For Scenario 3-10 all data below is already inputted into the system and the Medical Professional and the patients from Scenario1 and 2 are already inputted into the database

* System Administrator: 1
* Medical Professional: 1 2 3
* Patient 1,2,3 4,5,6
* Treatment Plan: 1, 2, 3, 4,5,6,7
* Appointment: 1, 2 ,3 ,4,5,6,7,8,9,10



Set A)

|  |  |
| --- | --- |
| Scenario: 1 | Medical Professional Registration |
| Execution Strategy: | 1. Enter “Tae” in First Name Field 2. Enter “Takuro” in Last Name Field 3. Enter “ThePlague2017” in Username Field 4. Enter “Languid6Treatment5” in Password Field 5. Pick “Who was the company you first worked for?” 6. Enter “Yongen-Jaya Clinic” as the answer for security 1 7. Pick “What’s your favorite song?” 8. Enter “All Stars” as the answer for security 2 9. Pick “What was the name of your first crush?” 10. Enter “Morgana” as the answer for security 3 11. Submit inputted data |
| Pre-  Condition | The Medical Professional database has a warm start (request has been sent). |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter a correct First Name |
| Post-  Condition | The medical professional is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the overview view 3. Medical Professional is not prompted to make a new First name |

|  |  |
| --- | --- |
| Scenario: 2 | Patient Registration |
| Execution Strategy: | 1. Enter “Cliff” in First Name Field 2. Enter “Paul” in Last Name Field 3. Enter “StateFarmAgent1” in Username Field 4. Enter “lobcity3allday” in Password Field 5. Pick “Who was the company you first worked for?” 6. Enter “State Farm” as the answer for security 1 7. Pick “What’s your favorite song?” 8. Enter “Love Story” as the answer for security 2 9. Pick “What was the name of your first crush?” 10. Enter “Wendy” as the answer for security 3 11. Submit inputted data |
| Pre-  Condition | The Patient database has a warm start (request has been sent). |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a different credentials |
| Post-  Condition | The Patient is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the overview view 3. Patient is not prompted to enter a different credentials |

Set B)

|  |  |
| --- | --- |
| Scenario: 3 | Medical Professional Resetting Credentials |
| Execution Strategy: | 1. Enter The “Plague2017” in Username Field 2. Enter “Yongen-Jaya Clinic” as the answer for security 1 3. Enter “All Stars” as the answer for security 2 4. Enter “Morgana” as the answer for security 3 5. Submit inputted data |
| Pre-  Condition | The Medical Professional database has a warm start (request has been sent) and Tae Takuro is registered in the database. The Medical Professional is located on the “Forgot my password” view |
| End to End Test Pass Criteria | 1. The Medical Professional is prompted to enter a new password |
| Post-  Condition | Medical Professional is shown the fields to enter a new password, re-enter their password, and the criteria for a new password. |
| End to End Test Fail Criteria | 1. Medical Professional is shown different security questions they did not choose during their registration after entering their username 2. Medical Professional is not prompted to enter a new password |

|  |  |
| --- | --- |
| Scenario: 4 | Patient Resetting Credentials |
| Execution Strategy: | 1. Enter “StateFarmAgent1” in Username Field 2. Enter “State Farm” as the answer for security 1 3. Enter “Love Story” as the answer for security 2 4. Enter “Wendy” as the answer for security 3 5. Submit inputted data |
| Pre-  Condition | Cliff Paul is registered in the database. The Patient is located on the “Forgot my password” view |
| End to End Test Pass Criteria | 1. The Patient is prompted to enter a new password |
| Post-  Condition | Patient is shown the fields to enter a new password, re-enter their password, and the criteria for a new password. |
| End to End Test Fail Criteria | 1. Patient is shown different security questions they did not choose during their registration after entering their username 2. Patient is not prompted to enter a new password |

Set C)

|  |  |
| --- | --- |
| Scenario: 5 | Medical Professional Login |
| Execution Strategy: | 1. Enter ThePlague2017 in Username Field 2. Enter Languid6Treatment5 in Password Field 3. Submit Data |
| Pre-  Condition | The Medical Professional database has a warm start (request has been sent) and Tae Takuro is registered in the database. The Medical Professional is also located on the Login view. |
| End to End Test Pass Criteria | 1. Medical Professional is redirected to their overview view 2. Medical Professional session was created |
| Post-  Condition | The Medical Professional is currently located on their overview view  The logged in Medical Professional can see Cliff Paul and Charles Xavier as their patient |
| End to End Test Fail Criteria | 1. Medical Professional was not redirected to their overview view 2. Medical Professional session was not created |

|  |  |
| --- | --- |
| Scenario: 6 | Medical Professional Log out |
| Execution Strategy: | 1. Medical Professional Logs out |
| Pre-  Condition | The Medical Professional database has a warm start (request has been sent) and Tae Takuro is registered in the database. The Medical Professional is also login in and currently located on their overview view |
| End to End Test Pass Criteria | 1. Medical Professional is redirected to the careaway homeview |
| Post-  Condition | The Medical Professional is currently located on their overview view  The logged in Medical Professional can see Cliff Paul and Charles Xavier as their patient |
| End to End Test Fail Criteria | 1. Medical Professional was not redirected to their homeview 2. Medical Professional session was not terminated |

|  |  |
| --- | --- |
| Scenario: 7 | Patient login |
| Execution Strategy: | 1. Enter StateFarmAgent1 in Username Field 2. Enter lobcity3allday in Password Field 3. Submit Data |
| Pre-  Condition | Cliff Paul is registered in the database. The user is located on the Login view. |
| End to End Test Pass Criteria | 1. Patient is redirected to their overview view 2. Patient session was created |
| Post-  Condition | The Patient is currently located on their overview view  The logged in patient can see their treatment plans and appointments |
| End to End Test Fail Criteria | 1. Patient was not redirected to their overview view 2. Patient session was not created |

|  |  |
| --- | --- |
| Scenario: 8 | Patient log out |
| Execution Strategy: | 1. Patient logs out |
| Pre-  Condition | Cliff Paul is registered in the database. The user is located on their overview view. |
| End to End Test Pass Criteria | 1. Patient is located on the careaway homeview |
| Post-  Condition | The Patient is currently located on the careaway homeview |
| End to End Test Fail Criteria | 1. Patient was not redirected to their homeview 2. Patient session was not terminated |

Set D)

|  |  |
| --- | --- |
| Scenario: 9 | System Administrator Login |
| Execution Strategy: | 1. Enter “TheChosenOne12” in Username Field 2. Enter “777Lazer777” in Password Field 3. Submit Data |
| Pre-  Condition | The System Administrator database has a warm start (request has been sent) and The System Administrator has the credentials put into it. |
| End to End Test Pass Criteria | 1. System Administrator is redirected to their account view 2. System Administrator session was created |
| Post-  Condition | The System Administrator is currently located on their account view |
| End to End Test Fail Criteria | 1. System Administrator was not redirected to their overview view 2. System Administrator session was not created |

|  |  |
| --- | --- |
| Scenario: 10 | System Administrator Log out |
| Execution Strategy: | 1. System Administrator clicks Logs out |
| Pre-  Condition | The System Administrator database has a warm start (request has been sent) and The System Administrator has the credentials put into it. |
| End to End Test Pass Criteria | 1. System Administrator is redirected to their account view |
| Post-  Condition | The System Administrator is currently located on their account view |
| End to End Test Fail Criteria | 1. System Administrator was not redirected to their homeview 2. System Administrator session was not terminated |

## **Security**

The following scenario tests the *Security* of the system to ensure it is valid and aligns with the requirements stated in the Business Requirements Document under the *Security Requirement* on pages 38-39 of the document. Other forms of security such as Registrations, Authentication and Session Termination are already tested in *User Management Regression Testing* and thus will not be tested in this test case. The following scenarios test cases are:

1. Send Breach Notification Reports

It is presumed that *End-to-End and Validation Testing* and *Unit Testing* have already been conducted, and the data created and used during both *End-to-End and Validation Testing* and *Unit Testing* will remain persistent on the system’s database throughout the rest of regression testing. At this point, data created during the *User Management Regression Test* will already exist in the database as well. The data that is already existing on the system can be viewed in the Data Table.

The data that was created or existed in the database during *End-to-End and Validation Testing* and *Unit Testing* includes:

* System Administrator 1
* Medical Professional 1, 2, 3
* Patients 1, 2, 3, 4
* Treatments 1, 2, 3, 4, 5
* Appointments 1, 2, 3, 4, 5, 6, 7, 8

Data per scenario:

**Scenario 1)**

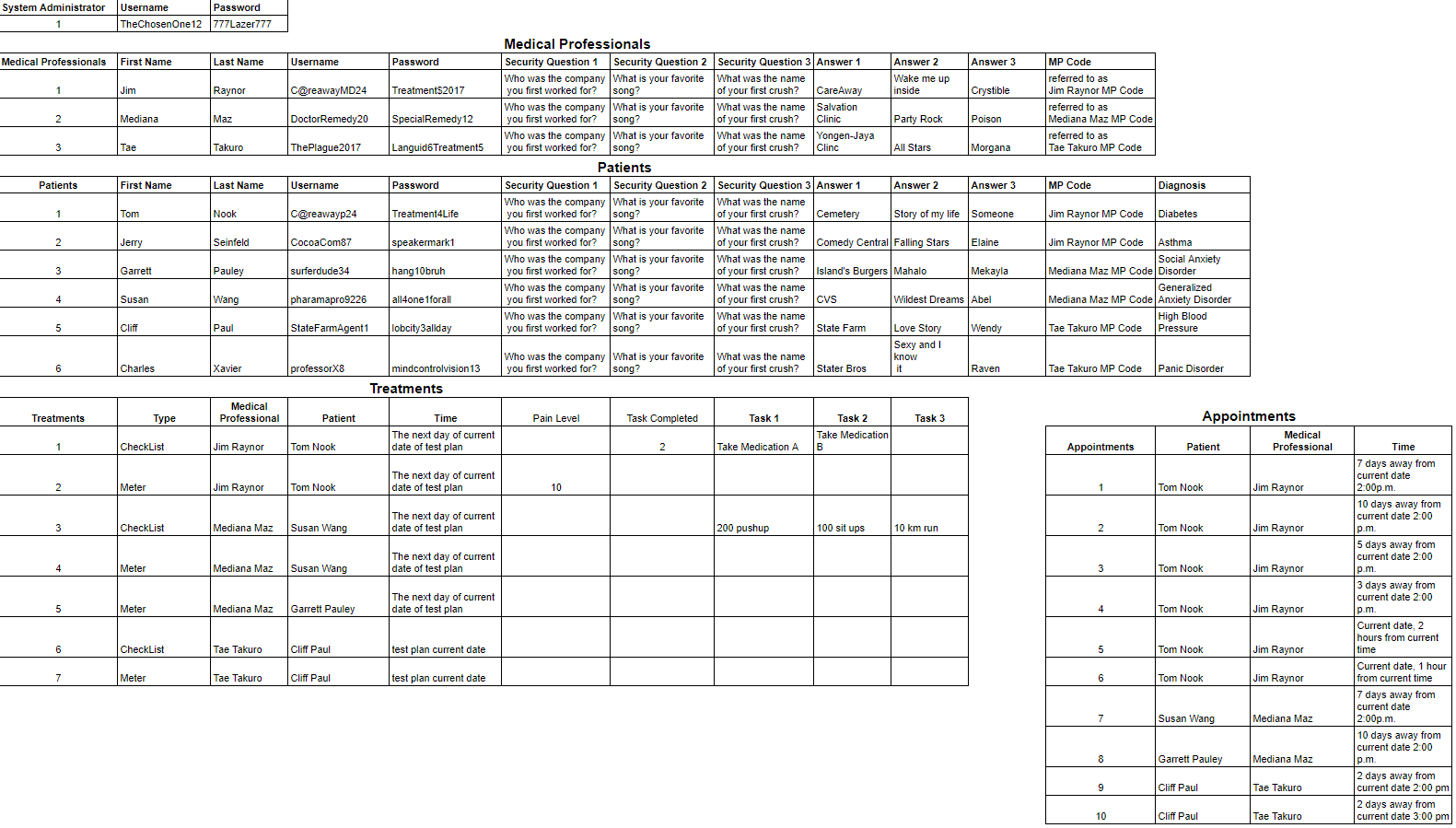
System Administrator 1

Medical Professional 1, 2, 3

Patients 1, 2, 3, 4, 5, 6

Treatments 1, 2, 3, 4, 5, 6, 7

Appointments 1, 2, 3, 4, 5, 6, 7, 8



|  |  |
| --- | --- |
| Scenario: 1 | Send Breach Notification Reports |
| Execution Strategy: | 1. The System Administrator clicks Send Breach Notification Reports. |
| Pre-  Condition | The System Administrator “TheChosenOne12” is logged into the system. |
| End to End Test Pass Criteria | 1. The CareAway Treatment Planner’s Homepage displays a breach notification. 2. The CareAway system is shutdown and no user can login/register. |
| Post-  Condition | The system is shut down |
| End to End Test Fail Criteria | 1. Users can still login or register 2. The message does not display on the homepage |

## **User Access Control**

The following scenarios test for user access control to ensure the system fulfills the requirements laid out by the *Business Requirements Document* for the *User Access Control Requirement* on pages 34-35. The tests specifically test to ensure that a medical professional can access patients/treatment plans/appointments, edit patient diagnosis/treatments/appointments, and create patient diagnosis/appointments. The tests ensure that patients can access appointments/treatment plans, create appointments, and edit appointments/treatment plans.

Set A)

1. Medical professional has access to his patient(s)
2. Medical professional add patient diagnosis
3. Medical professional edit patient diagnosis
4. Medical professional create treatment plans for a patient
5. Medical professional edit treatment plan for a patient
6. Medical professional create a appointment with his patient(s)
7. Medical professional canceling an Appointment

Set B)

1. Patient access and making changes to his treatment plan
2. Patient creates an appointment
3. Patient cancelling an Appointment

It is presumed that *End-to-End and Validation Testing* and *Unit Testing* have already been conducted, and the data created and used during both *End-to-End and Validation Testing* and *Unit Testing* will remain persistent on the system’s database throughout the rest of regression testing. At this point, data created during the *User Management Regression Test* will already exist in the database as well. The data that is already existing on the system can be viewed in the Data Table.

The data that was created or existed in the database during *End-to-End and Validation Testing* and *Unit Testing* includes:

* System Administrator 1
* Medical Professional 1, 2, 3
* Patients 1, 2, 3, 4
* Treatments 1, 2, 3, 4, 5
* Appointments 1, 2, 3, 4, 5, 6, 7, 8

Data per scenario:

**Scenario 1, 2, 3, 4, 5, 6, 7, 8, 9, 10)**

System Administrator 1

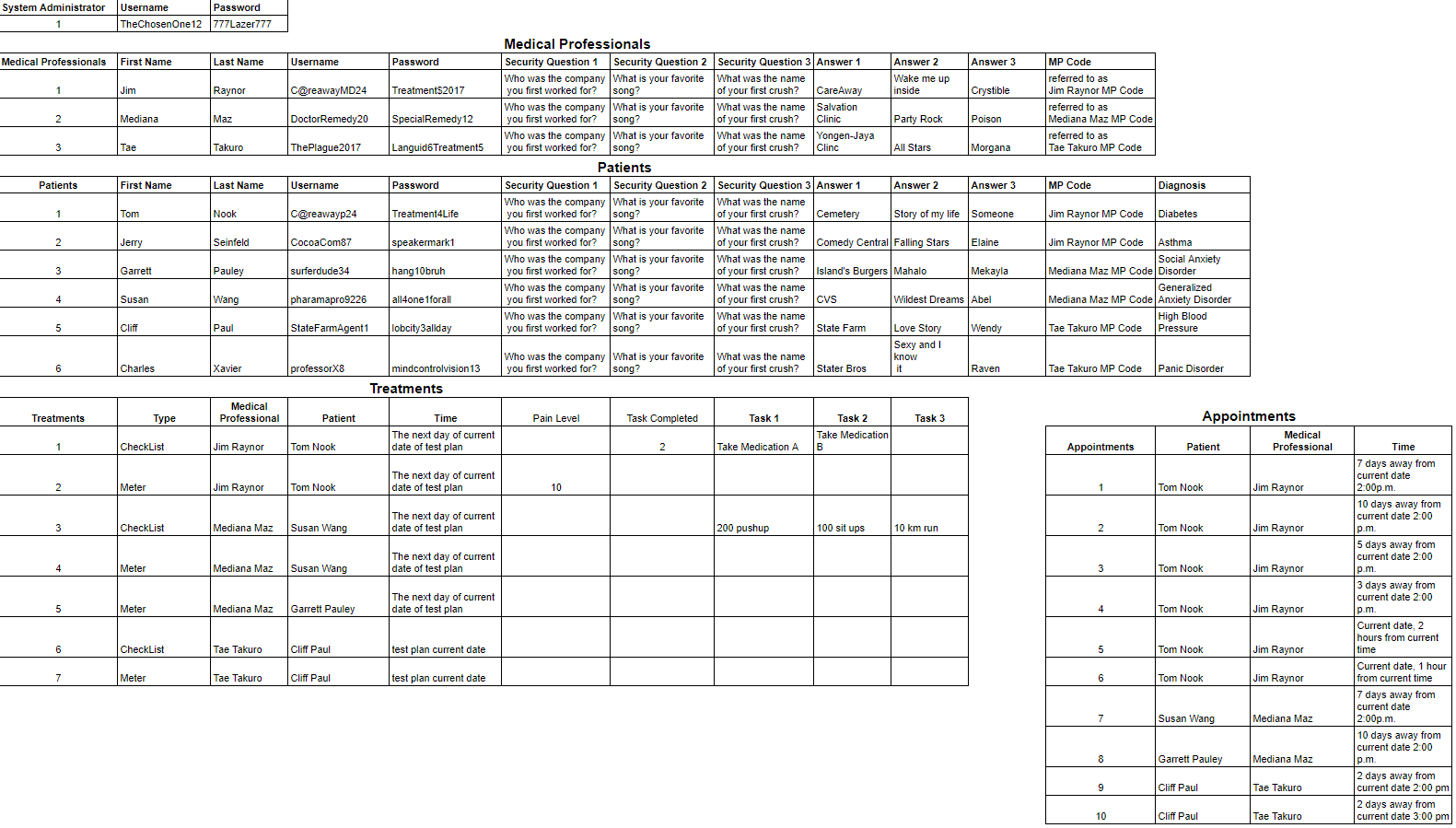
Medical Professional 1, 2, 3

Patients 1, 2, 3, 4, 5, 6

Treatments 1, 2, 3, 4, 5, 6, 7

Appointments 1, 2, 3, 4, 5, 6, 7, 8





Set A)

|  |  |
| --- | --- |
| Scenario: 1 | Medical Professional has access to his patient’s data |
| Execution Strategy: | 1. The medical professional clicks on “Cliff Paul” from drop down menu. 2. The medical professional navigates back to their Medical Professional Account (Appointment) View. 3. The medical professional clicks on “Charles Xavier” from drop down menu. |
| Pre-  Condition | The medical professional Tae Takuro is currently logged into the system and has a user session. The patients Cliff Paul and Charles Xavier are registered patients under Tae Takuro. Tae Takuro is currently located on the Medical Professional Account (Appointment) View. |
| End to End Test Pass Criteria | 1. The medical professional can see data pertaining to both Cliff Paul and Charles Xavier |
| Post-  Condition | Medical professional is currently viewing the information of Charles Xavier and has access to different functionalities for that patient. |
| End to End Test Fail Criteria | 1. Medical professional can not see Cliff Paul and/or Charles Xavier as his patient. 2. Medical professional sees patients not registered under them. 3. Medical professional sees incorrect information about Cliff Paul. 4. Medical professional sees incorrect information about Charles Xavier. |

|  |  |
| --- | --- |
| Scenario: 2 | Medical professional adding patient diagnosis |
| Execution Strategy: | 1. The medical professional clicks on “Cliff Paul” from drop down menu 2. The medical professional clicks to add patient diagnosis from a drop down menu 3. The medical professional selects “Panic Disorder”. |
| Pre-  Condition | The medical professional Tae Takuro is currently logged into the system and has a user session. The patients Cliff Paul and Charles Xavier are registered patients under Tae Takuro. Tae Takuro is currently located on the Medical Professional Account (Appointment) View and Cliff Paul does not have any diagnosis assigned to him. |
| End to End Test Pass Criteria | 1. The patient Cliff Paul is assigned a diagnosis of Panic Disorder 2. The medical professional can view the new diagnosis under Cliff Paul |
| Post-  Condition | Medical professional is currently viewing the information of Cliff Paul. |
| End to End Test Fail Criteria | 1. Medical professional can not see Cliff Paul as his patient 2. Medical professional see incorrect information about Cliff Paul 3. Cliff Paul was not assigned Panic Disorder |

|  |  |
| --- | --- |
| Scenario: 3 | Medical professional editing patient diagnosis |
| Execution Strategy: | 1. The medical professional clicks on “Cliff Paul” from the drop down menu 2. The medical professional clicks to edit patient diagnosis 3. The medical professional selects “High Blood Pressure” |
| Pre-  Condition | The medical professional Tae Takuro is currently logged into the system and has a user session. The patients Cliff Paul and Charles Xavier are registered patients under Tae Takuro. Tae Takuro is currently located on the Medical Professional Account (Appointment) View and Cliff Paul is assigned Panic Disorder. |
| End to End Test Pass Criteria | 1. The patient Cliff Paul is assigned a diagnosis of High Blood Pressure 2. The medical professional can view the new diagnosis under Cliff Paul |
| Post-  Condition | Medical professional is currently viewing the information of Cliff Paul. |
| End to End Test Fail Criteria | 1. Medical professional can not see Cliff Paul as his patient 2. Medical professional see incorrect information about Cliff Paul 3. Cliff Paul was not assigned High Blood Pressure |

|  |  |
| --- | --- |
| Scenario: 4 | Medical professional create treatment plans for a patient |
| Execution Strategy: | 1. Medical professional clicks on “Cliff Paul” from the dropdown menu. 2. Medical professional clicks on “Make Treatment Plan”. 3. Medical professional selects \**Current Date*\* as date. 4. Medical professional selects Meter Widget. 5. Medical professional submits the data. |
| Pre-  Condition | The medical professional Tae Takuro is currently logged into the system and has a user session. The patients Cliff Paul and Charles Xavier are registered patients under Tae Takuro. Tae Takuro is currently located on the Medical Professional Account (Appointment) View. |
| End to End Test Pass Criteria | 1. The patient Cliff Paul has a treatment plan on *\*Current Date\** 2. Medical professional can see the treatment plan on his Medical Professional Account (Appointment) View for Cliff Paul. |
| Post-  Condition | Medical professional is currently viewing the information of Cliff Paul. |
| End to End Test Fail Criteria | 1. Medical professional can not see Cliff Paul as his patient 2. Medical professional see incorrect information about Cliff Paul 3. Treatment Plan was not created 4. Treatment Plan was set to a different date |

|  |  |
| --- | --- |
| Scenario: 5 | Medical professional setting an appointment time |
| Execution Strategy: | 1. Medical professional selects Cliff Paul. 2. Medical professional selects “Make Appointment”. 3. Medical professional selects \**2 days away from current date*\* as the date. 4. Medical professional selects 2:00 p.m. as the time. 5. Medical professional submits the data. |
| Pre-  Condition | The medical professional Tae Takuro is currently logged into the system and has a user session. The patients Cliff Paul and Charles Xavier are registered patients under Tae Takuro. Tae Takuro is currently located on the Medical Professional Account (Appointment) View. |
| End to End Test Pass Criteria | 1. The patient Cliff Paul has an appointment request on \**2 days away from current date*\* 2. The medical professional can see the scheduled appointment on \**2 days away from current date*\* on the calendar. |
| Post-  Condition | Medical professional is currently viewing the information of Cliff Paul. |
| End to End Test Fail Criteria | 1. Medical professional can not see Cliff Paul as his patient. 2. Medical professional sees incorrect information about Cliff Paul. 3. Appointment time was not created. 4. Appointment time was set to a different date. |

Set B)

|  |  |
| --- | --- |
| Scenario: 6 | Patient editing a treatment plan |
| Execution Strategy: | 1. Patient (Cliff Paul) is located on the current day of the treatment plan. 2. Patient select completed for Task 1. 3. Patient submits data. |
| Pre-  Condition | Cliff Paul is registered in the database. The patient is also located on his Patient Account (Appointment) View. |
| End to End Test Pass Criteria | 1. Patient view completed for Task 1 on the checklist widget for that day. |
| Post-  Condition | The patient is currently located on his Patient Account (Appointment) View.  The logged in patient can see the new changes they made to the treatment plan. |
| End to End Test Fail Criteria | 1. The Treatment Plan does not have task 1 as completed. 2. The patient can’t see his treatment plan. |

|  |  |
| --- | --- |
| Scenario: 7 | Patient setting an appointment time |
| Execution Strategy: | 1. Patient (Cliff Paul) selects on “Make Appointment”. 2. Patient selects \**2 days away from current date*\* as the date. 3. Patient selects 3:00 p.m. as the time. 4. Patient submits the data. |
| Pre-  Condition | Cliff Paul is registered in the database. The patient is also located on his Patient Account (Appointment) View. |
| End to End Test Pass Criteria | 1. The medical professional Tae Takuro has an appointment request on \**2 days away from current date*\* 2. The patient can see the scheduled appointment on \**2 days away from current date*\* on the calendar. |
| Post-  Condition | Cliff Paul is currently located on his Patient Account (Appointment) View. |
| End to End Test Fail Criteria | 1. Appointment time was not created. 2. Appointment time was set to a different date. |

## **Error Handling**

The following will contain possible scenarios that causes an error within our application. For scenarios for Registration,valid data criteria can be found in the Registration business requirement description on page 19 - 20 of the Business Requirements Document. Our team will be utilizing Error Handling Regression Testing to verify and validate the following business requirements : Registration, Authentication/Session Termination, Treatment Plan Creation, Interacting with Treatment Plan, Appointment Scheduling.

The following scenarios will be used for Error Handling Regression Testing.

Set A) Registration

1. Medical Professional Registration - invalid First name
2. Medical Professional Registration - invalid Last name
3. Medical Professional Registration - invalid security answers
4. Medical Professional Registration - invalid password
5. Medical Professional Registration - invalid username
6. Medical Professional Registration - input existing user credentials
7. Patient - invalid First name
8. Patient - invalid Last name
9. Patient - invalid Medical Professional code
10. Patient - invalid security answers
11. Patient - invalid password
12. Patient - invalid username
13. Patient - input the existing user credentials

Set B) Login

1. Invalid password
2. Invalid username

Set C) Resetting Credential

1. "Forgot Password View" : passwords don't match
2. User on "Forgot Password View" : input invalid username
3. User on "Forgot Password View" : input valid username, invalid security questions

Set D) Creating Treatment Plan

1. Add a Checklist Widget with no task
2. Add a Checklist Widget 7 days before the current date
3. Add Meter Widget 7 days before the current date

Set E) Interacting with Treatment Plan

1. Attempt to change a task ahead of time Checklist widget
2. Attempt to put a value in the Meter widget ahead of time

Set F) Appointment Schedule

1. Set a appointment time in the past

The following are the set of data that will be used throughout the testing for Error Handling in Regression Testing. In addition, there will already be data loaded from End-To-End and Validation Testing and Unit Testing that will be existing in the database which are:

* System Administrator: 1
* Medical Professional: 1, 2
* Patient 1,2,3 4
* Treatment Plan: 1, 2, 3, 4,5
* Appointment: 1, 2 ,3 ,4

The data that will be used is represented below. Note

For Scenario 1,2,3,4,5,6)

* Medical Professional 3

For Scenario 7,8,9,10,11,12,13)

* Patient 5

For Scenario 14, 15)

* Medical Professional 3

For Scenario 16, 17, 18)

* Medical Professional 3

For Scenario 19, 20)

* Medical Professional 3
* Treatment Plan 6

For Scenario 21)

* Medical Professional 3
* Treatment Plan 7

For Scenario 22)

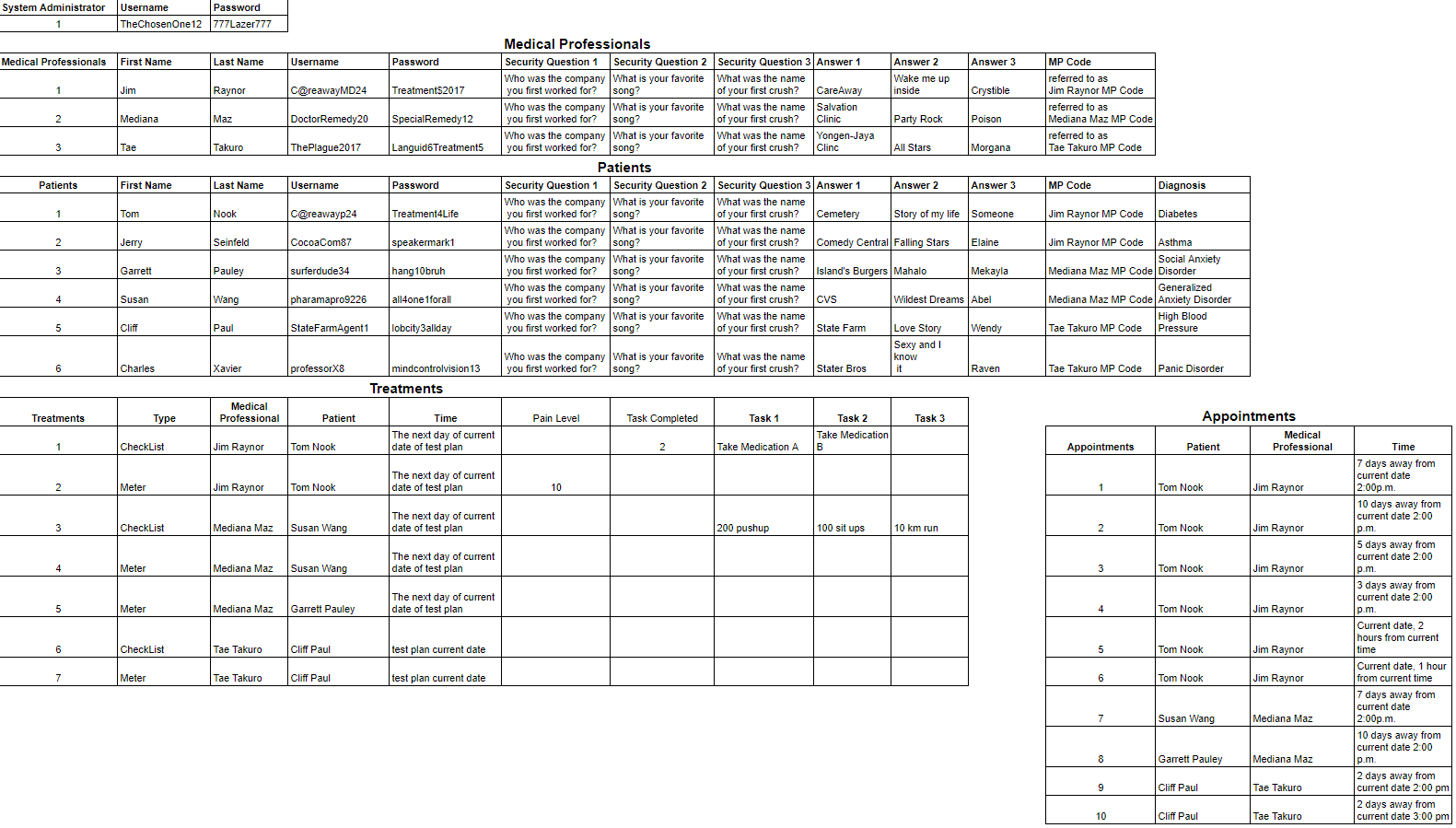
* Patient 5
* Treatment Plan 6

For Scenario 23)

* Patient 5
* Treatment Plan 7

For Scenario 24)

* Patient 5



Set A)

|  |  |
| --- | --- |
| Scenario: 1 | Medical Professional Registration- Invalid First Name |
| Execution Strategy: | 1. Enter “Tae21312321” in First Name Field 2. Enter “Takuro” in Last Name Field 3. Enter “ThePlague2017” in Username Field 4. Enter “Languid6Treatment5” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “Yongen-Jaya Clinic” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “All Stars” as the answer for security question 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Morgana” as the answer for security question 3 11. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter a valid First Name |
| Post-  Condition | The medical professional is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to their account view 3. Medical Professional is not prompted to input a valid first name |

|  |  |
| --- | --- |
| Scenario: 2 | Medical Professional Registration - invalid last name |
| Execution Strategy: | 1. Enter “Tae” in First Name Field 2. Enter “Takuro123211231” in Last Name Field 3. Enter “ThePlague2017” in Username Field 4. Enter “Languid6Treatment5” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “Yongen-Jaya Clinic” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “All Stars” as the answer for security question 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Morgana” as the answer for security question 3 11. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter a different last name that meets the criteria for a last name |
| Post-  Condition | The medical professional is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to their account view 3. Medical Professional is not prompted to enter a different last name |

|  |  |
| --- | --- |
| Scenario: 3 | Medical Professional Registration- invalid security answers |
| Execution Strategy: | 1. Enter “Tae” in First Name Field 2. Enter “Takuro” in Last Name Field 3. Enter “ThePlague2017” in Username Field 4. Enter “Languid6Treatment5” in Password Field 5. Submit inputted data without answering security questions |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter answers for the security questions |
| Post-  Condition | The medical professional is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the account view 3. Medical Professional is not prompted to fill out security questions |

|  |  |
| --- | --- |
| Scenario: 4 | Medical Professional Registration - invalid password |
| Execution Strategy: | 1. Enter “Tae” in First Name Field 2. Enter “Takuro” in Last Name Field 3. Enter “ThePlague2017” in Username Field 4. Enter “LanguidTreatment” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “Yongen-Jaya Clinic” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “All Stars” as the answer for security question 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Morgana” as the answer for security question 3 11. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter a different password that meets the criteria for a valid password |
| Post-  Condition | The medical professional is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the account view 3. Medical Professional is not prompted to enter a different password |

|  |  |
| --- | --- |
| Scenario: 5 | Medical Professional Registration - invalid username |
| Execution Strategy: | 1. Enter “Tae” in First Name Field 2. Enter “Takuro” in Last Name Field 3. Enter “ThePlague” in Username Field 4. Enter “Languid6Treatment5” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “Yongen-Jaya Clinic” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “All Stars” as the answer for security question 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Morgana” as the answer for security question 3 11. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter a different username that meets the criteria for a valid username |
| Post-  Condition | The medical professional is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the account view 3. Medical Professional is not prompted to enter a different username |

|  |  |
| --- | --- |
| Scenario: 6 | Medical Professional Registration - input existing user credentials |
| Execution Strategy: | 1. Enter “Tae” in First Name Field 2. Enter “Takuro” in Last Name Field 3. Enter “ThePlague2017” in Username Field 4. Enter “Languid6Treatment5” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “Yongen-Jaya Clinic” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “All Stars” as the answer for security question 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Morgana” as the answer for security question 3 11. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Medical Professional is prompted to enter different credentials |
| Post-  Condition | The medical professional is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Medical Professional is redirected to the account view 3. Medical Professional is not prompted to enter different credentials |

|  |  |
| --- | --- |
| Scenario: 7 | Patient Registration- Invalid First Name |
| Execution Strategy: | 1. Enter “Cliff123213213” in First Name Field 2. Enter “Paul” in Last Name Field 3. Enter “StateFarmAgent1” in Username Field 4. Enter “lobcity3allday” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “State Farm” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Love Story” as the answer for security 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Wendy” as the answer for security 3 11. Medical Professional Code: Tae Takuro’s MP Code 12. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a correct First Name |
| Post-  Condition | The Patient is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to make a new first name |

|  |  |
| --- | --- |
| Scenario: 8 | Patient Registration - invalid last name |
| Execution Strategy: | 1. Enter “Cliff” in First Name Field 2. Enter “Paul123213” in Last Name Field 3. Enter “StateFarmAgent1” in Username Field 4. Enter “lobcity3allday” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “State Farm” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Love Story” as the answer for security 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Wendy” as the answer for security 3 11. Medical Professional Code: Tae Takuro’s MP Code 12. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a different last name that meets the criteria for a last name |
| Post-  Condition | The Patient is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to enter a different last name |

|  |  |
| --- | --- |
| Scenario: 9 | Patient Registration-invalid Medical Professional code |
| Execution Strategy: | 1. Enter “Cliff” in First Name Field 2. Enter “Paul123213” in Last Name Field 3. Enter “StateFarmAgent1” in Username Field 4. Enter “lobcity3allday” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “State Farm” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Love Story” as the answer for security 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Wendy” as the answer for security 3 11. Medical Professional Code: “000000000000” 12. Submit inputted data without answering security questions |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a valid Medical Professional Code |
| Post-  Condition | The Patient is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to provide a valid Medical Professional Code |

|  |  |
| --- | --- |
| Scenario: 10 | Patient Registration- invalid security answers |
| Execution Strategy: | 1. Enter “Cliff” in First Name Field 2. Enter “Paul” in Last Name Field 3. Enter “StateFarmAgent1” in Username Field 4. Enter “lobcity3allday” in Password Field 5. Medical Professional Code: Tae Takuro’s MP Code 6. Submit inputted data without answering security questions |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter answers for the security questions |
| Post-  Condition | The Patient is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to fill out security questions |

|  |  |
| --- | --- |
| Scenario: 11 | Patient Registration - invalid password |
| Execution Strategy: | 1. Enter “Cliff” in First Name Field 2. Enter “Paul” in Last Name Field 3. Enter “StateFarmAgent1” in Username Field 4. Enter “lobcityallday” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “State Farm” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Love Story” as the answer for security 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Wendy” as the answer for security 3 11. Medical Professional Code: Tae Takuro’s MP Code 12. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a different password that meets the criteria for a valid password |
| Post-  Condition | The Patient is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to enter a different password |

|  |  |
| --- | --- |
| Scenario: 12 | Patient Registration - invalid username |
| Execution Strategy: | 1. Enter “Cliff” in First Name Field 2. Enter “Paul” in Last Name Field 3. Enter “StateFarmAgent” in Username Field 4. Enter “lobcity3allday” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “State Farm” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Love Story” as the answer for security 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Wendy” as the answer for security 3 11. Medical Professional Code: Tae Takuro’s MP Code 12. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a different username that meets the criteria for a valid username |
| Post-  Condition | The Patient is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to enter a different username |

|  |  |
| --- | --- |
| Scenario: 13 | Patient Registration - input existing user credentials |
| Execution Strategy: | 1. Enter “Cliff” in First Name Field 2. Enter “Paul” in Last Name Field 3. Enter “StateFarmAgent1” in Username Field 4. Enter “lobcity3allday” in Password Field 5. Pick “Who was the company you first worked for?” for security question 1 6. Enter “State Farm” as the answer for security question 1 7. Pick “What’s your favorite song?” for security question 2 8. Enter “Love Story” as the answer for security 2 9. Pick “What was the name of your first crush?” for security question 3 10. Enter “Wendy” as the answer for security 3 11. Medical Professional Code: Tae Takuro’s MP Code 12. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent). Refer to the data table. |
| End to End Test Pass Criteria | 1. No new data is saved to the database 2. Patient is prompted to enter a different set of credentials |
| Post-  Condition | The Patient is returned to the registration form. |
| End to End Test Fail Criteria | 1. Submitted data was saved to the database despite invalid data 2. Patient is redirected to the account view 3. Patient is not prompted to enter a different credentials |

Set B)

|  |  |
| --- | --- |
| Scenario: 14 | Login - invalid password |
| Execution Strategy: | 1. Enter “ThePlague2017” in Username Field 2. Enter “Treatment$$$$” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start (request has been sent) and the Medical Professional Tae Takuro and Patients Cliff Paul and Charles Xavier are registered in the database. |
| End to End Test Pass Criteria | 1. User is prompted they inputted incorrect information |
| Post-  Condition | The Medical Professional stays on the authentication form. |
| End to End Test Fail Criteria | 1. Medical Professional was redirected to their account view 2. Medical Professional was not prompted they input incorrect information |

|  |  |
| --- | --- |
| Scenario: 15 | Login - invalid username |
| Execution Strategy: | 1. Enter “C@reaway4life” in Username Field 2. Enter “Languid6Treatment5” in Password Field 3. Submit Data |
| Pre-  Condition | The database has a warm start (request has been sent) and the Medical Professional Tae Takuro and Patients Cliff Paul and Charles Xavier is registered in the database. |
| End to End Test Pass Criteria | 1. User is prompted they inputted incorrect information |
| Post-  Condition | The User stays on the authentication form. |
| End to End Test Fail Criteria | 1. User was redirected to their account view 2. User was not prompted they put incorrect information |

Set C)

|  |  |
| --- | --- |
| Scenario: 16 | Forgot Password View - passwords don’t match |
| Execution Strategy: | 1. Enter “ABKCAK123” in New Password Field 2. Enter “rfohnose74” in Enter Password Again Field 3. Submit inputted data |
| Pre-  Condition | The Medical Professional database has a warm start (request has been sent) and the user Tae Takuro is registered in the database. The user (Tae Takuro) has correctly entered and submitted their username and the three security questions on the Forgot Password View. |
| End to End Test Pass Criteria | 1. User is prompted that the passwords don’t match |
| Post-  Condition | User stays on the Forgot Password View |
| End to End Test Fail Criteria | 1. Database is changed despite invalid data 2. User is not prompted that the passwords don’t match |

|  |  |
| --- | --- |
| Scenario: 17 | Forgot Password View - invalid username |
| Execution Strategy: | 1. Go to “Forgot Password View” 2. Enter “ThePlague” in Username Field 3. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent) and the user Tae Takuro does not exist in the database. |
| End to End Test Pass Criteria | 1. User is prompted that an account with that username does not exist |
| Post-  Condition | User stays on the Forgot Password View. |
| End to End Test Fail Criteria | 1. User is shown the fields to enter a new password 2. User is not prompted that an account with that username does not exist |

|  |  |
| --- | --- |
| Scenario: 18 | Forgot Password View - valid username, invalid security questions |
| Execution Strategy: | 1. Go to Forgot Password View 2. Enter “ThePlague2017” in Username Field 3. Enter “Epic” as the answer for security question 1 (What was the company you first worked for?) 4. Enter “MUSEUM de Dou Shitai” as the answer for security 2 (What’s your favorite song?) 5. Enter “Hanzo” as the answer for security 3 (What was the name of your first crush?) 6. Submit inputted data |
| Pre-  Condition | The database has a warm start (request has been sent) and the user Tae Takuro does not exist in the database. |
| End to End Test Pass Criteria | 1. User is prompted that their answers to the security questions are wrong |
| Post-  Condition | User stays on the Forgot Password View. |
| End to End Test Fail Criteria | 1. User is shown the fields to enter a new password 2. User is not prompted that their security questions were wrong |

Set D)

|  |  |
| --- | --- |
| Scenario: 19 | Add a Checklist Widget with no task |
| Execution Strategy: | 1. Medical Professional selects “Cliff Paul” under their list of patients 2. Medical Professional drags “Checklist” widget to the current day 3. Medical Professional submits treatment plan |
| Pre-  Condition | The database has a warm start (request has been sent) and the user Tae Takuro is registered in the database. The Medical Professional Tae Takuro is currently logged in and on their Appointment View. |
| End to End Test Pass Criteria | 1. The medical professional is directed to the Treatment Plan Creation View. 2. The system prompts the Medical Professional that there is no data to submit and they need to insert in tasks for the checklist widget on the treatment plan. |
| Post-  Condition | The medical professional is still on the creation of the treatment plan. |
| End to End Test Fail Criteria | 1. The Treatment Plan is saved and shows up on the Patient’s treatment plans |

|  |  |
| --- | --- |
| Scenario: 20 | Add a Checklist Widget -7 days before the current day |
| Execution Strategy: | 1. Medical Professional selects Cliff Paul under patients their list of patients 2. On the Treatment Plan Creation View, Medical Professional selects Checklist Widget for treatment type. 3. Select the date for the widget to 7 days before the current day. 4. Add a task to the checklist widget - “Lift a rock” 5. Select “Confirm” on the widget to save the widget. |
| Pre-  Condition | The database has a warm start (request has been sent) and the user Tae Takuro is registered in the database. The Medical Professional Tae Takuro is currently logged in and is on the Appointment Scheduling View. |
| End to End Test Pass Criteria | 1. The system prompts the Medical Professional that the treatment plan creation date is incorrect |
| Post-  Condition | The medical professional is still on the creation of the treatment plan. |
| End to End Test Fail Criteria | 1. The Treatment Plan is saved and shows up on the Patient’s treatment plans |

|  |  |
| --- | --- |
| Scenario: 21 | Add a Meter Widget - 7 days before the current day |
| Execution Strategy: | 1. Medical Professional selects Cliff Paul under patients their list of patients 2. On the Treatment Plan Creation View, Medical Professional selects Meter Widget for treatment type. 3. Select the date for the widget to 7 days before the current day. 4. Select “Confirm” on the widget to save the widget. |
| Pre-  Condition | The database has a warm start (request has been sent) and the user Tae Takuro is registered in the database. The Medical Professional Tae Takuro is currently logged in. |
| End to End Test Pass Criteria | 1. The system prompts the Medical Professional that the treatment plan creation date is incorrect |
| Post-  Condition | The medical professional is still on the creation of the treatment plan. |
| End to End Test Fail Criteria | 1. The Treatment Plan is saved and shows up on the Patient’s treatment plans |

Set E)

|  |  |
| --- | --- |
| Scenario: 22 | Attempt to change a task ahead of time Checklist widget |
| Execution Strategy: | 1. The Patient selects the Treatment Plan for *test plan current date* |
| Pre-  Condition | The Patient Cliff Paul is logged in and has the checklist treatment plan active on the Treatment Plan view. |
| End to End Test Pass Criteria | 1. The system prompts the patient that they can not interact with the treatment plan |
| Post-  Condition | The Patient is currently viewing the treatment plan for *test plan current date* |
| End to End Test Fail Criteria | 1. The patient can change the value of the treatment plan |

|  |  |
| --- | --- |
| Scenario: 23 | Attempt to put a value ahead of time in the meter widget |
| Execution Strategy: | 1. The Patient selects the Treatment Plan for *test plan current date* |
| Pre-  Condition | The Patient Cliff Paul is logged in and has the checklist treatment plan active on the account view. |
| End to End Test Pass Criteria | 1. The system prompts the patient that they can not interact with the treatment plan |
| Post-  Condition | The Patient is currently viewing the treatment plan for *test plan current date* |
| End to End Test Fail Criteria | 1. The patient can change the value of the treatment plan |

Set F)

|  |  |
| --- | --- |
| Scenario: 24 | Set a appointment time in the past |
| Execution Strategy: | 1. The patient selects schedule an appointment 2. The patient selects the time April 20, 1999 3. The patient selects the time 2:00 p.m. 4. The patient submits the data |
| Pre-  Condition | The Patient Cliff Paul is logged in and has selected to request an appointment from their treatment plan view. |
| End to End Test Pass Criteria | 1. The patient is prompted the date is invalid |
| Post-  Condition | The Patient is currently on their account view |
| End to End Test Fail Criteria | 1. The patient has scheduled said appointment |

## **Network Connectivity**

The following Regression Test will encompass *Network Connectivity*: connecting to the system and sending data to the system. Valid requirement criteria is documented in *Network Connectivity* in the *Business Requirements Document* on pages 36-37. The RESTful operations are already tested in *End-to-End and Validation Testing* and *Unit Testing*:

* Registration
* Authentication
* Resetting Credentials
* User Access Control
* Security
* Treatment Plan Creation/Revision
* Treatment Plan Interaction
* Appointment Scheduling
* Data Analysis Reports

The following scenarios regarding network connectivity will begin in sequential order.

1. Client connects to server

It is presumed that *End-to-End and Validation Testing* and *Unit Testing* have already been conducted, and the data created and used during both *End-to-End and Validation Testing* and *Unit Testing* will remain persistent on the system’s database throughout the rest of regression testing. At this point, data created during the *User Management Regression Test* will already exist in the database as well. The data that is already existing on the system can be viewed in the Data Table.

The data that was created or existed in the database during *End-to-End and Validation Testing* and *Unit Testing* includes:

* System Administrator 1
* Medical Professional 1, 2, 3
* Patients 1, 2, 3, 4
* Treatments 1, 2, 3, 4, 5
* Appointments 1, 2, 3, 4, 5, 6, 7, 8

Data per scenario:

**Scenario 1, 2)**

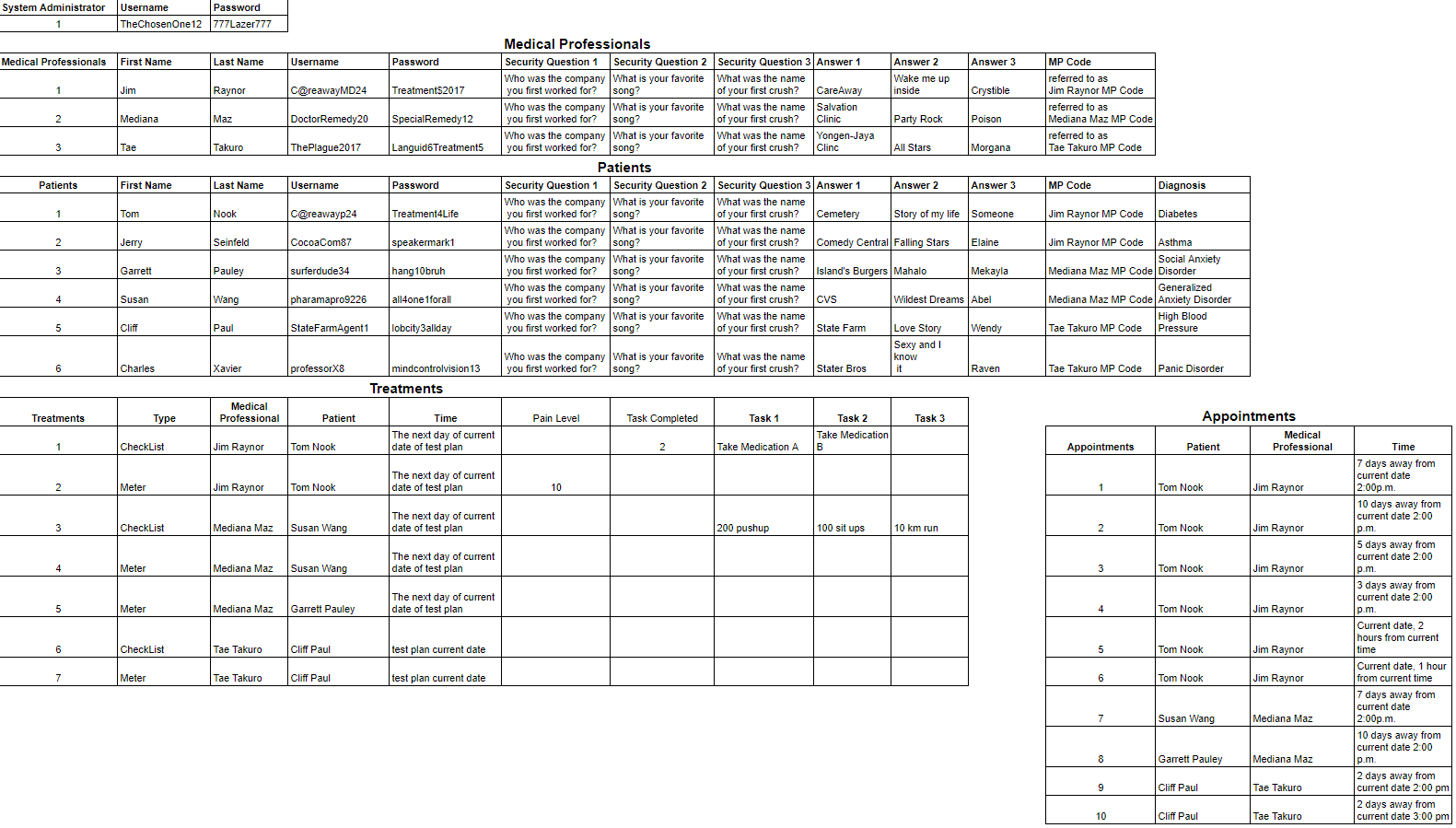
System Administrator 1

Medical Professional 1, 2, 3

Patients 1, 2, 3, 4, 5, 6

Treatments 1, 2, 3, 4, 5, 6, 7

Appointments 1, 2, 3, 4, 5, 6, 7, 8



Set A)

|  |  |
| --- | --- |
| Scenario: 1 | Client connects to server |
| Execution Strategy: | 1. The browser Google Chrome is used to navigate to CareAway Treatment Planner’s Homepage |
| Pre-  Condition | The system is deployed and active. |
| End to End Test Pass Criteria | 1. The CareAway Treatment Planner’s Homepage shows up on the browser. |
| Post-  Condition | CareAway Treatment Planner’s Homepage shows up on the browser. |
| End to End Test Fail Criteria | 1. Connection is refused and the browser states that the connection is not allowed. 2. A different web page appears 3. The browser crashes |

# **Smoke Testing**

Our team will be utilizing smoke testing to verify and validate the following business requirements : Registration, Authentication/Session Termination, Treatment Plan Creation, Interacting with Treatment Plan, Appointment Scheduling, and Data Analysis Reports. The purpose of smoke testing is to ensure that the most important functions of the CareAway Treatment Planner work. The Smoke Testing section will test the mentioned requirements above, but will not go in-depth to verify error handling.

**Note:** If the tester does not see what is specified under the Expected Results and Test Pass Criteria sections, the test scenario will be deemed a failure.

Below are the following scenarios that will be tested in sequential order.

1. Medical Professional Registration and Login
2. Patient Registration and Login
3. Medical Professional Treatment Plan Creation and Appointment Scheduling Request

* Before scenario 3 can be tested, scenario 1 and 2 must be verified and passed.

1. Patient Treatment Plan Interaction and Appointment Scheduling Approval

* Before scenario 4 can be tested, scenario 3 must be verified and passed.

1. Medical Professional Data Analysis Report Generation

* Before scenario 5 can be tested, scenario 4 must be verified and passed.

The following are the set of data that will be used in Smoke Testing. In addition, there will already be data loaded from End-To-End and Validation Testing that will be existing in the database which are:

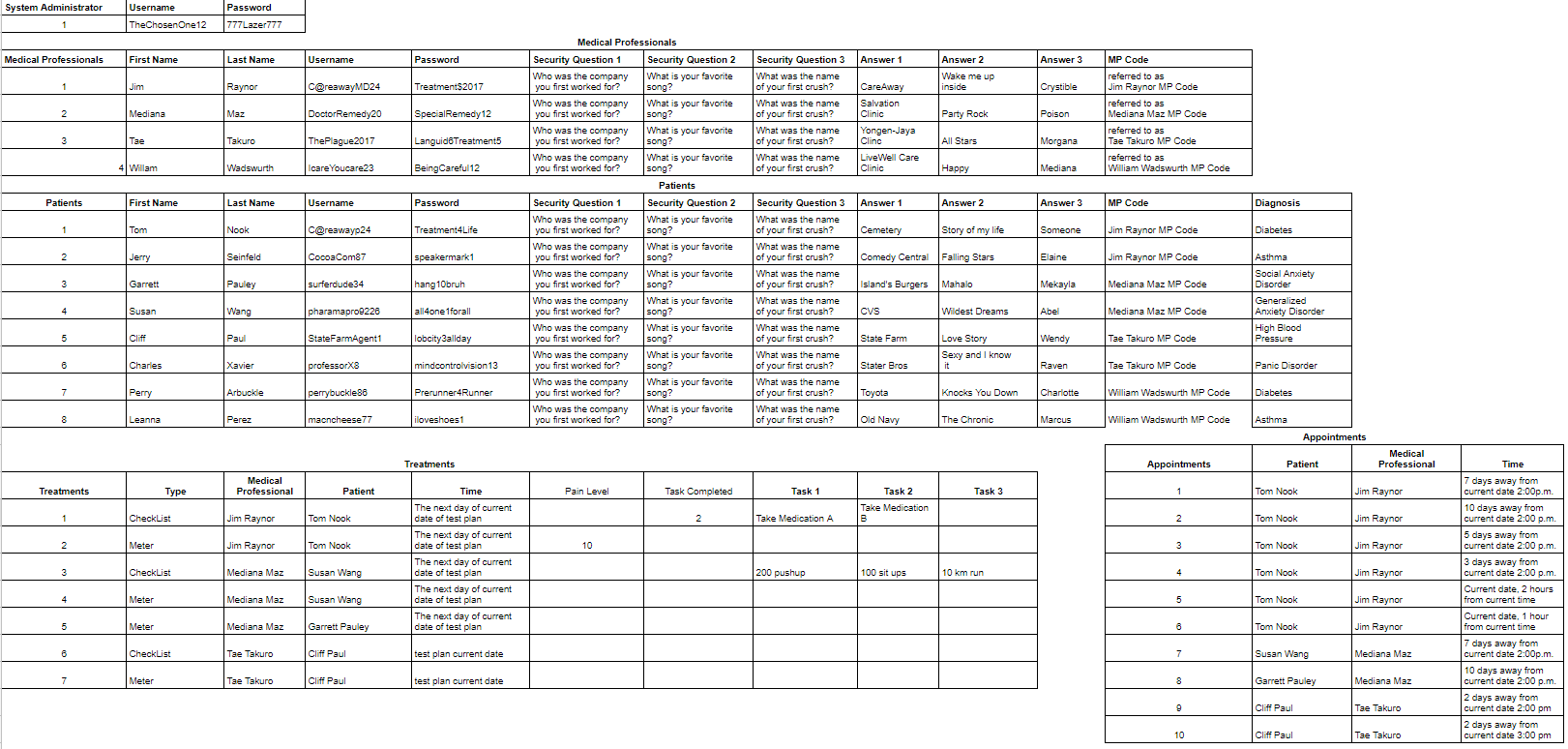
System Administrator: 1

Medical Professionals: 1, 2, 3

Patients: 1,2,3,4,5,6

Treatments: 1,2,3,4,5,6,7

Appointments: 1,2,3,4,5,6,7,8



|  |  |
| --- | --- |
| Test ID: | 01 |
| Test Name: | Medical Professional Registration and Login |
| Test Description: | Test the registration and login functionality for the medical professional. Following the Execution Strategy for this test case should create a new Medical Professional account. Using the credentials, the user should be able to log in to the Medical Professional’s account. |

|  |  |
| --- | --- |
| **Execution Strategy** | **Expected Result** |
| Navigate to the CareAway Treatment Planner Homepage. | The CareAway viewshould load and render on the user’s browser. |
| Select the Medical Professional Registration link | The registration viewshould be displayed with fields for first and last name, username, password, security questions, along with a Submit button. |
| Enter a valid first name.  First Name: “William” | The first name field should be editable and accept input from the keyboard |
| Enter a valid last name.  Last Name: “Wadswurth” | The last name field should be editable and accept input from the keyboard |
| Enter a valid username.  Username: “IcareYoucare23” | The username field should be editable and accept input from the keyboard. |
| Enter a valid password.  Password: “BeingCareful2” | The password field should be editable and accept input from the keyboard. |
| Select the following security questions   * “What is the name of the first company you worked for?” * “What is your favorite song?” * “What was the name of your first crush?”   Provide the following answers to those questions.   * “LiveWell Care Clinic” * “Happy” * “Mediana” | The list of possible security questions should display for each of the 3 fields. The fields to answer the security questions should be editable and accept input. |
| Press the Create button. | The user is directed to a viewnotifying them that their account has been successfully created. The user is directed to their appointment view.  ***Note*:** The medical professional’s appointment view should display their medical registration code. Write down or make a note of what this code was as it will be needed for the next test. |
| Select the “Logout” option. | The session is terminated and the user is directed to the authentication view. |
| On the authentication view, enter the username for the medical professional, William Wadswurth.  Username: “IcareYoucare23”  Password: “BeingCareful2”  Press the “Sign In” button | The username and the password fields on the authentication view should accept keyboard input from the user.  After providing the username and password, the user should be directed to their appointment view. |

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| Test Pass Criteria | All inputs that were provided in the Execution Strategy were accepted as valid registration fields.  The medical professional is directed to appointment view after registration and after they log in. |

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| Test ID: | 02 |
| Test Name: | Patient Registration and Login |
| Test Description: | Test the registration functionality for the patient. Following the Execution Strategy for this test case should create a new patient account. |

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| **Execution Strategy** | **Expected Result** |
| Navigate to the CareAway Treatment Planner Homepage. | The CareAway view should load and render on the user’s browser. |
| Select the Patient Registration link | The registration view should be displayed with fields for first and last name, username, password, security questions, checkboxes for written authorization for health information sharing and age verification, along with a Submit button. |
| Enter a valid first name.  First Name: “Perry” | The first name field should be editable and accept input from the keyboard. |
| Enter a valid last name.  Last Name: “Arbuckle” | The last name field should be editable and accept input |
| Enter a valid username.  *Username*: “perrybuckle86” | The username field should be editable and accept input from the keyboard. |
| Enter a valid password.  *Password*: “PreRunner4Runner” | The password field should be editable and accept input from the keyboard. |
| Enter in the medical professional  ***Code*:** For this field, use the medical registration code of the Medical Professional account created in Test 01 (see above). | The association code field should be editable and accept input from the keyboard. |
| Select the following security questions   * “What is is the name of the company you first worked for?” * “What is your favorite song?” * “What is the name of your first crush?”   Provide the following answers to those questions.   * “Toyota” * “Knocks You Down” * “Charlotte” | The list of possible security questions should display for each of the 3 fields. The fields to answer the security questions should be editable and accept input. |
| Check off the boxes for written authorization   1. Health information sharing 2. Age verification | The checkboxes should be able to be checked if they are clicked on. |
| Press the Submit button. | The user is directed to a view notifying them that their account has been successfully created. The patient is directed to their treatment plan view. |
| Select the “Logout” option. | The session is terminated and the user is directed to the authentication view. |
| On the authentication page, enter the username for the patient, Perry Arbuckle.  Username: “perrybuckle86”  Password: “PreRunner4Runner”  Press the “Sign In” button | The username and the password fields on the authentication view should accept keyboard input from the user.  After providing the username and password, the user should be directed to their treatment plan view. |

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| Test Pass Criteria | All inputs that were provided in the Execution Strategy were accepted as valid registration fields.  The patient is redirected to their treatment plan view. |

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| Test ID: | 03 |
| Test Name: | Medical Professional Treatment Plan Creation and Appointment Scheduling Request |
| Test Description: | Test the treatment plan creation and appointment scheduling functionality for the medical professional. Following the Execution Strategy for this test case should create a treatment plan with 2 widgets on a single day. Also, an appointment should be requested with the patient.  **Precondition** - For this test case to be valid, test case 01(Medical Professional Registration and Login) and 02 (Patient Registration and Login) must have been completed and the Test Pass Criteria must be verified.  The patient, Leanna Perez, should also have been loaded into the database after the completion of scenario 1.  Tester should be logged in as the medical professional William Wadswurth and is on the medical professional appointment view. |

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| **Execution Strategy** | **Expected Result** |
| Selects the patient, Leanna Perez, from the medical professional’s appointment viewdrop down menu. | Leanna Perez should show up as a patient. After the medical professional selects Leanna Perez, they should be directed to the Treatment Plan Creation Page. |
| Find the diagnosis placeholder for the patient, Leanna Perez.  Set the diagnosis for this patient to “Asthma” | The diagnosis for Leanna Perez should be empty initially.  After the medical professional selects to change the field to “Asthma”, the field should display “Asthma” |
| Select the checklist widget from the widget menu. Set the completion date for the checklist widget to the current day.   Provide the following tasks in the checklist widget.  “ 10 Pushups”  “ Take nasal medication”  Save the checklist widget to the treatment plan. | The Treatment Plan Creation view should have a widget menu. The medical professional is able to select the checklist widget from the menu.  Once the medical professional chooses to save the checklist widget to the treatment plan, it should persist on the view under the day that was specified. |
| Select the meter widget from the widget menu. Set the completion date for the meter widget to the current day. | The Treatment Plan Creation viewshould have a widget menu. The medical professional is able to select the meter widget from the menu.  Once the medical professional chooses to save the meter widget to the treatment plan, it should persist on the viewunder the day that was specified. |
| Return back to the medical professional appointment page. Select the patient Leanna Perez. | On the appointment page, Leanna Perez should show up as a patient. Once the patient is selected, the medical professional should be prompted to enter in an appointment date and time. |
| Select the upcoming Monday for the appointment day.  Select 3:00 PM as the appointment time.  Submit the request. | An appointment request notification shows up on the medical professional’s calendar. |

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| Test Pass Criteria | A diagnosis and treatment plan should be created for the patient, Leanna Perez.  The treatment plan should consist of a checklist widget with tasks and a meter widget. An appointment request should also be made for the medical professional with Leanna Perez, and the appointment request should show up as Pending on the medical professional’s appointment page. |

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| Test ID: | 04 |
| Test Name: | Patient Treatment Plan Interaction and Appointment Scheduling Approval |
| Test Description: | Test the treatment plan interaction and appointment approval functionality for the patient. Following the Execution Strategy for this test case, the 2 tasks under the checklist widget should be completed and the meter widget should have an input value provide. Also, the appointment request should be approved.  **Precondition** - For this test case to be valid, test case 03(Medical Professional Treatment Plan Creation and Appointment Scheduling) must have been completed and the Test Pass Criteria must be verified.  The patient, Leanna Perez, should also have been loaded into the database after the completion of scenario 1. |

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| **Execution Strategy** | **Expected Result** |
| The patient, Leanna Perez, logs in to the system using her credentials on the authentication page.  Enter the following login credentials  Username: “macncheese77”  Password: “iloveshoes1” | The authentication viewshould accept keyboard input in the username and the password field.   Leanna Perez should be logged in and should see her treatment plan viewwith a checklist widget and a feedback widget on the current day. |
| Select the checklist widget. | The checklist widget should expand out. 2 tasks should appear on the checklist widget. (1) “10 Pushups” (2) “Take nasal medication” |
| Mark the 2 tasks as completed on the checklist widget.   Check the box next to the task “10 Pushups” Check the box next to the task “Take nasal medication”  Select “Confirm” on the checklist widget. | Both boxes should take input and be able to be checked. |
| Select the meter widget. | The meter widget should expand out. The user should be able to select a numerical value on the meter widget by clicking. |
| Select the option “5” on the meter widget by clicking on “5”. Then, select “Confirm” on the meter widget. | Numerical values on the meter widget should accept user input. Once the user selects a value, the needle on the widget should point to that value. |
| Select the appointment request from Dr. William Wadswurth. | The appointment time should be 2:00PM. The appointment date should be the coming Monday. |
| Select “Approve” on the appointment request. | The appointment should remain on the patient’s treatment plan on the coming Monday. The appointment time should be 2:00PM. |

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| Test Pass Criteria | The patient was able to mark both tasks as completed on the checklist widget and select a numerical value on the meter widget. The appointment request should be approved and should still show up on the patient’s treatment plan. |

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| Test ID: | 05 |
| Test Name: | Medical Professional Data Analysis Report Generation |
| Test Description: | Test the data analysis report functionality for the medical professional. Following the Execution Strategy for this test case, the medical professional should be able to generate a data analysis report for the patient, Leanna Perez.  **Precondition** - For this test case to be valid, test case 04(Patient Treatment Plan Interaction and Appointment Scheduling Approval) must have been completed and the Test Pass Criteria must be verified.  The medical professional is currently on the Data Analysis Report Page.  The patient, Leanna Perez, should also have been loaded into the database after the completion of scenario 1. |

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| **Execution Strategy** | **Expected Result** |
| On the Data Analysis Report View, the medical professional selects the patient Leanna Perez. | Leanna Perez should show up as a patient that can be selected. Once selected, 3 graphs should show up for the patient - Task Completion Percentage, Reported Wellness, and Task Completion for Patients with the same Condition. |

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| Test Pass Criteria | Leanna Perez should show up as a patient for the medical professional.  The 3 graphs show up on the medical professional’s Data Analysis Report Page, after selecting Leanna Perez. |