
SE 3350y - SOFTWARE ENGINEERING DESIGN I

Self Start System Software Testing Plan (TP)

Version 1.0

<i>SelfStart System</i>	Version: 1.0
Software Testing Plan (TP)	Date: 09/04/2018
Loop Solutions Inc	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	First Revision	Andrew Black

<i>SelfStart System</i>	Version: 1.0
Software Testing Plan (TP)	Date: 09/04/2018
Loop Solutions Inc	

Table of Contents

1. Introduction	4
2. Relationship to other documents	4
3. System overview	4
4. Features to be tested/not to be tested	4
5. Pass/Fail criteria	5
6. Approach	5
7. Suspension and resumption	5
8. Testing materials (hardware/software requirements)	5
9. Test cases	6
10. Testing schedule	6

<i>SelfStart System</i>	Version: 1.0
Software Testing Plan (TP)	Date: 09/04/2018
Loop Solutions Inc	

Software Testing Plan (TP)

1. Introduction

The objectives of performing the tests that will be outlined in this document is to ensure and validate the functionality of our site, and discover any possible bugs that may hamper the system prior to creating the final shippable product. The tests that will be outlined in this document, and further explored in the following 19 Test Case Specification documents should help to provide a future framework for any managers or testers wishing to execute the testing procedures in an efficient matter to further confirm the systems validation. We Hope that in following the procedure outlined in this document, that all individuals will ratify and confirm the functionality of the product we have produced, and deem the results more than satisfactory.

2. Relationship to other documents

The goal of this document is to show how the functionality delivered by the SelfStart system aligns with the requirements first outlined in the SRS document produced last November, and more recently, the SDS document created this past January. By creating comprehensive test cases for each of the specific Use Case elements, outlined in the provided UC Diagram, we felt that we could best display the correlation between the client's requirements and our systems functionality. From the initial functional and non-functional requirements outlined in the SRS document, we crafted a concise SDS document which has been updated at every step along the way of our development process. The SDS encapsulates the functionalities, and all required changes and tweaks, that our system has obtained throughout the development process. The culmination of both the SDS, and SRS documentation, along with the developed SelfStart system, is this Testing Plan document. Through the findings of these tests we believe that it is evident our system reaches, and exceeds functional expectations.

3. System overview

The Self Start system can be best broken down into the components utilized for each Use Case. More often than not, each individual Use Case corresponds directly to its own individual Angular component and route. The nature of testing each Use Case is rather straight forward, and encompasses navigating to each individual Use Case's page, and performing the actions outlined in the specific Test Case Specification document. Each individual component is rather stand-alone, and easily accessible through navigating the SelfStart site. As a whole, the system is only dependent on a connection to the internet if the testing is being compiled post-launch. In the situation that the system needs to be tested prior to launch, a number of steps must be followed. First, the manager/tester must set up the frontend and backend separately, in the case of development, the backend was developed on Cloud 9's service and the frontend was developed locally and just requires Node in order to install the proper dependencies. After installing the dependent packages, the frontend and backend can be initiated via terminals prompts and the testing may begin.

4. Features to be tested/not to be tested

Every feature outlined in the Self Start vision document is to be tested, and as each feature corresponds well to the Use Cases outlined in the Updated Use Case Diagram we will be testing each of the predisposed Use Cases. As all of these features are supported in our developed Self Start system, none will need to be omitted due to lack of completion or poor performance.

<i>SelfStart System</i>	Version: 1.0
Software Testing Plan (TP)	Date: 09/04/2018
Loop Solutions Inc	

5. Pass/Fail criteria

For the tests covered in the later documents contained in this package, the criteria for pass or fail are rather straightforward. If the component outlined does not match the functional goal outlined in its corresponding Use Case, then that specific component fails. Whereas if the desired actions produce the desired results as one would expect for the functionality of the Use Case, then the specific component passes that given test case.

6. Approach

The importance of basing the test cases off of the Use Case Diagram specifics allows for the testing cases to be broken own into two scenarios that each test can be categorized into. The specific scenarios can all be broken down into either retrieving system information or managing system information. To test both these situations, you need to perform a fairly regimented approach to each. In the first case, often just navigating to the component itself is enough to validate its functionality, as the system will need to fetch the required information and display it appropriately. In the other instance, three different steps must be taken in order to validate the systems response. In these cases, the three main steps that must be taken are edit, delete and create. These situations fall under the category of tests contained under the “Manage” Use Cases where all three core functionalities must be confirmed in order to validate a passing test case.

7. Suspension and resumption

In the instance of discovering a functional flaw in the system that results in a failing case or bug, the testing must be suspended and the problem must be proactively addressed before moving on with the next test cases. In this scenario, the managers/testers must discover the root of the problem in the system, and apply a proper fix that'll remedy the issue. Once the problem has been fixed, the system tests must begin again from the beginning to confirm that the failing result was a one-off case in that instance, and that it didn't affect other aspects of the system. By beginning the testing anew, this also ensures that the fix doesn't have spiraling unforeseen consequences to the remainder of the system.

8. Testing materials (hardware/software requirements)

In support of running these individual test cases, it is sufficient to test via an internet connection to the website, or from the testing individuals local machine. If done locally, certain packages are required for proper function of the system, including but not limited to, Mongoose, Express, Angular, and Node.js. These are the main essential components, with the rest of the dependencies being able to be installed via the Node package manager, and the simple npm install command.

<i>SelfStart System</i>	Version: 1.0
Software Testing Plan (TP)	Date: 09/04/2018
Loop Solutions Inc	

9. Test cases

The corresponding test cases for our Self Start System will mirror that of the provided Use Case Diagram that we've been utilizing throughout the development process. The Test Case Specification documents will follow, and the test cases will be:

- Authenticate User
- Change Password
- Visualize Results
- Generate Report
- Manage Dynamic Forms
- Manage Users
- Manage Rehabilitation Plans
- Manage Exercises
- Complete Assessment Test
- Book Appointment
- Upload Images
- Fill in Initial Injury Form
- Assign Rehabilitation Plan
- Complete Exercise
- Manage Assessment Tests
- Manage Finding and Outcomes
- Create New Account
- Make Payment
- Manage Patient Profiles

10. Testing schedule

To sufficiently test the system capabilities, at least two individuals should run through the testing process in order to verify the system functionality. This will ensure that a single individual doesn't get 'lucky' or be partial in their testing flow and fail in exposing any possible fundamental system flaws.

Training required for testing the system entail a strong knowledge of web development, specifically within the MEAN stack software package. The related risks and contingencies to the testing schedule would result from the discovery of a fundamental, fatal flaw in the system that would increase the scope of this project and detrimentally effect the project's schedule. In order to mitigate this risk, early stage testing occurred on each component as they were developed in the life of the system, so that as the system progressed the key features were sound and stable. The schedule of the final testing of the system should occur immediately after the development finishes, and proceed for the two days following to validate the functionality of the system and make sure that each of the required functionalities are sufficiently met.

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Authenticate User	

Self Start System Test Case Specification (TCS)

Authenticate User

Version <1.0>

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Authenticate User	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Authenticate User Test Case	Jak Terpak

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Authenticate User	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Authenticate User	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is User Authentication Test Case. This document outlines the specific tests run to ensure that a user was being properly authenticated, and directed to their specific dashboard based on their role (ie user, admin or physio therapist) with information specific to the user displayed on their dashboard.

2. Test items

Log in Component – The log in component contains the log in screen as well as the calls to the server to verify the user name and password

Physio-home – The displayed page if a Physiotherapist logs in

Client-home – The displayed page if a Client logs in

Admin-home – The displayed page if the admin logs in

3. Input specifications

A user, that has already registered on the website, navigates to the log in screen. From the log in screen, the user enters their username and password.

4. Output specifications

There are several possible outputs based on what the user enters. If the user enters an incorrect user name or password an error message is displayed asking them to retry.

If the user enters the correct username and corresponding password the system will retrieve their information and direct them to their homepage. If it is a client logging into the system, they will be directed to their client homepage. If it is a physiotherapist logging in they will be displayed the physio dashboard.

If the user attempts to log in with a temporary password they will be instructed to first reset their password before they can access the contents of the site.

5. Environmental needs

Internet connection.

6. Special procedural requirements

N/A

7. Intercase dependencies

- Change Password

SE 3350y - SOFTWARE ENGINEERING DESIGN I

Self Start System Test Case Specification (TCS) Change Password

Version <1.0>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Change Password Test>	

Revision History

Date	Version	Description	Author
<09/04/19>	<1.0>	<Change Password Test>	<Craig Cook>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Change Password Test>	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Change Password Test>	

Test Case Specification (TCS)

1. Test case specification identifier

We will label this test case as the Change Password Test since it is regarding the Change Password use case, and can be easily identified by the developers from this name.

2. Test items

The component being tested for this current specification will be the forgotten-password component. Included in this component is the change password functionality as described below.

3. Input specifications

The input for this case is initiated once a user forgets the password to their Self Start account. They are prompted to click a ‘Forgot Password’ button that will lead them to an authentication form and eventually send an email to their account with an instructional message on how to change their password. Therefore, a valid email address and connected user account is required for this test case.

4. Output specifications

Once initiated by the user, the system administrator will be notified that a change password request has been made, and then it is up to the admin to take action in order to fulfill the request.

5. Environmental needs

Minimal environmental conditions are required for this test case, however, a valid email address and a proper internet connection will both be needed for this test to fully execute.

6. Special procedural requirements

In order to completely change or reset a user password, a temporary key is generated and sent over email to the address given on the user’s account. This means that a constraint to this test is that the user must have a working internet connection, and a valid email address to retrieve and change their password.

7. Intercase dependencies

The Change Password Test is dependent on the Manage User Account Test since one of the functionalities of this use case is that a user must be able to change their password.

SE 3350y - SOFTWARE ENGINEERING DESIGN I

**Self Start System
Test Case Specification (TCS)**
Visualize Results Test Case

Version 1.0

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Visualize Results Test Case	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Visualize Results Test Case	Jak Terpak

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Visualize Results Test Case	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Visualize Results Test Case	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is Visualize Treatment Results. This document describes the specific tests done to ensure the correct functionality of visualizing the results of a client's completed assessment tests.

2. Test items

Completed-assessment-test component – This is where the client completes their assigned assessment test.

Assessment-test component – This is where the Physiotherapist can view the responses of the client and provide feedback on how they are progressing.

Generate-report component – This is where the Physio can come in and see a graphical representation of how the client is progressing in their treatment.

3. Input specifications

To test the functionality, first I logged on as a physiotherapist, then I created a new assessment test and assigned it to a rehab plan. Next I assigned that rehab plan to a client. Then I logged on as that client and filled in the answers to the assessment test questions. Note the first question in every test is standardized to "how are you feeling today" this is the question used to generate visualized reports. I then logged back on as the physio and provided feedback based on the answers the client gave.

4. Output specifications

When the physio navigates to view generated reports, they should see a line graph showing the progress of the user based on the answer to the question "how are you feeling today?" on each of their assessment tests. The graph also displays a super imposed line graph of the physio's response to each assessment test.

5. Environmental needs

Internet, web browser.

6. Special procedural requirements

Need to first create an assessment test. Then that test needs to be assigned to a rehab plan, then that rehab plan needs to be assigned to a client, that that client needs to complete the test then, the physio then needs to provide feedback. Only once these steps are completed can the physio view visual reports.

7. Intercase dependencies

- Generate Patient Reports Test
- Assign Patient Plan Test Case
- Manage Test Assessments Test Case
- Complete Assessment Test Case

SE 3350y - SOFTWARE ENGINEERING DESIGN I

**Self Start System
Test Case Specification (TCS)
Generate Reports**

Version <1.0>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Generate Reports Test>	

Revision History

Date	Version	Description	Author
<09/04/19>	<1.0>	<Generate Reports Test>	<Craig Cook>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Generate Reports Test>	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	5
7. Intercase dependencies	5

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Generate Reports Test>	

Test Case Specification (TCS)

1. Test case specification identifier

This test case will be called Generate Reports Test since we are testing the functionality of generating and viewing informational reports on a physiotherapist's clients. This specification document will look further into testing the capabilities of the Generate Report use case.

2. Test items

The generate-report component is being tested for this current specification since it is the one responsible for the functionality of both generating, and either print, display, or send a written report summarising the examination findings and treatment plan.

3. Input specifications

A physiotherapist will have the ability to display, print, or send a summary report for each of their patients. The physiotherapist is given the option to choose which patient they would like to generate a report for, and will be prompted to execute this functionality after viewing the certain patient's assessment test results and rubrics.

4. Output specifications

After the physiotherapist has decided they would like to generate a summary report for one of their clients, Self Start will then give the physiotherapist an option of what they would like to do with this report. They should be able to choose between displaying, printing, or sending the generated report. The functionality as described above are the output requirements for a successful test.

5. Environmental needs

A secure internet connection and working email address are the only environmental conditions that would be required for the success of this test case. A printer, however, is needed in the case that the physiotherapist would like to print a physical copy of the report that was generated.

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Generate Reports Test>	

6. Special procedural requirements

An administrator account is the only constraint to accessing this feature since there is sensitive information contained within the client's summary report that should not be shared with any other system users.

7. Intercase dependencies

The Generate Report Test is independent from any other tests because although the information can be used across other cases, the actual functionality of this component is isolated and the success of which is not affected by the result of other test cases.

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Dynamic Forms Test Case	

**Self Start System
Test Case Specification (TCS)
Manage Dynamic Forms Test Case**

Version 1.0

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Dynamic Forms Test Case	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Manage Dynamic Forms Test Case	Jak Terpak

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Dynamic Forms Test Case	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Dynamic Forms Test Case	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is the Manage Dynamic Forms Test Case. This document will outline the expected functionality of the Manage Dynamic Forms when it comes to editing, deleting and creating forms.

2. Test items

Manage-dynamic-forms – This is the component that handles all the operations that go with managing dynamic forms.

3. Input specifications

An admin logs into the system and navigates to the manage dynamic forms page. Here the admin can decide whether to add a new form, edit an existing form or delete a form.

4. Output specifications

If an admin chooses to update an existing plan, a modal will pop up with all the info they can change. They then confirm the changes.

If an admin chooses to create a new plan, a modal will pop up instructing them to fill in all the necessary fields.

If an admin chooses to delete a plan, a confirmation modal will pop up.

5. Environmental needs

Internet, Web Browser

6. Special procedural requirements

N/A

7. Intercase dependencies

N/A

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	09/04/2018
Manage Users Accounts Test Case	

**Self Start System
Test Case Specification (TCS)
Manage Users Accounts Test Case**

Version 1.0

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	09/04/2018
Manage Users Accounts Test Case	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Manage Users Accounts Test Case	Jak Terpak

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	09/04/2018
Manage Users Accounts Test Case	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	09/04/2018
Manage Users Accounts Test Case	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is Manage Users Accounts Test Case. This test case will test the functionality of an admin to be able to create, edit and delete clients as well as physiotherapists.

2. Test items

User-accounts component – The admin will be able to navigate to the manage user accounts page and have the ability to change account information, delete current accounts or create new ones.

3. Input specifications

The admin will first log into their account, they will then click the side-nav tab titled “manage user accounts”. This will redirect the admin to a page with two tabs. One tab titled Clients, the other titled Physiotherapist. The clients tab displays a list of all clients and gives the admin the ability to edit a client, delete a client and create a new client. The second tab is titled physio therapists and contains all the same functionalities accept for the physiotherapists within the system.

4. Output specifications

I will describe the desired output for the client tab, but note it is exactly the same for the physio tab except with physiotherapists instead of clients. When the admin clicks on edit a client a modal should pop up in the middle of the screen displaying all the data fields that a client possesses. There are also input fields for all the information in which the admin can change. Once the admin makes their changes they click submit and, are either informed that there was invalid info in the fields and to try again, or that the update was successful.

When the admin wants to delete a client they simply click delete, they are asked if they are sure, then they confirm.

To create a new client, the admin clicks create and a modal pops up with all the fields that need to be filled in. The system validates the input fields and creates the client.

5. Environmental needs

Internet, Web Browser

6. Special procedural requirements

N/A

7. Intercase dependencies

N/A

<i>Self Start</i>	Version: 1.0
Test Case Specification (TCS)	Date: 04/09/2018
Loop Solutions Inc	

**Self Start System
Test Case Specification (TCS)
Image Upload**

Version <1.0>

<i>Self Start</i>	Version: 1.0
Test Case Specification (TCS)	Date: 04/09/2018
Loop Solutions Inc	

Revision History

Date	Version	Description	Author
04/09/2018	1.0	Image Upload	Andrew Black

<i>Self Start</i>	Version: 1.0
Test Case Specification (TCS)	Date: 04/09/2018
Loop Solutions Inc	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

<i>Self Start</i>	Version: 1.0
Test Case Specification (TCS)	Date: 04/09/2018
Loop Solutions Inc	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is Image Upload. The premise of this document is to outline the tests that should be undertaken to test the functionality of uploading an image to the system. This test needs to be run on the image upload for both exercises and appointments, to ensure that the image objects are linking properly to both exercise and appointment objects.

2. Test items

This test should be ran on both the exercise and appointment components, of which images are associated to both.

3. Input specifications

In the users case, they'll navigate to the appointment section of their dashboard, and attach an image to the appointment that they book. In the case of the physio, they'd attach an image to a new, or existing exercise object.

4. Output specifications

There should be only one output of an image upload, and that should be reflected in the image being displayed the next time a physio or client click on the exercise that the image was attached to. In the case of appointment with a linked image, when either the physio or client select an appointment in their dashboard, the image should be displayed in that modal. These outcomes are both computed manually by checking for the presence of the image.

5. Environmental needs

An internet connection and a computer, as well as a .jpg or .png file to upload.

6. Special procedural requirements

N/A.

7. Intercase dependencies

- Book Appointment
- Manage Exercise

SE 3350y - SOFTWARE ENGINEERING DESIGN I

**Self Start System
Test Case Specification (TCS)
Manage Rehab Plans Test**

Version <1.0>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Manage Rehab Plans Test>	

Revision History

Date	Version	Description	Author
<09/04/19>	<1.0>	<Manage Rehab Plans Test>	<Craig Cook>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Manage Rehab Plans Test>	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	5
7. Intercase dependencies	5

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Manage Rehab Plans Test>	

Test Case Specification (TCS)

1. Test case specification identifier

This test case will be used to determine the functionality of the patient's rehabilitation plans, and therefore we will call it the Manage Rehab Plans Test for the simplicity of our developers.

2. Test items

The rehab-plans component is the one being tested for this specification since it is the main controller for the functionality behind the management of patient's rehabilitation plans. Within the rehab-plans component, the system administrator is allowed to create clinic-defined standard rehabilitation plans, as well as adding, changing, and deleting the information contained within the custom plans.

3. Input specifications

Upon viewing the physiotherapist's dashboard, they are given the ability to select a certain patient for which they can manage rehabilitation plans for. Once selected, the physiotherapist is expected to follow procedure in order to create clinic-defined standard rehabilitation plans, as well as adding, changing, and deleting the information contained within the custom plans.

4. Output specifications

Once the physiotherapist has updated their patient's custom rehabilitation plan, that patient will then see the changes made next time they are logged in to their account. This feature is useful for when patient's have dynamic rehab plans, and this functionality must be tested in order to ensure complete satisfaction.

5. Environmental needs

In order to manage clinic-standardized rehab plans, the actor must be signed in as a physiotherapist user to gain access. Other than this platform requirement, a secure internet connection is also required to execute this test case.

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Manage Rehab Plans Test>	

6. Special procedural requirements

The user must be signed in to a physiotherapist account in order to execute this test case.

7. Intercase dependencies

This test case is dependent on the Manage Exercises test case as well because online practitioners must have the ability to manage, as well as update and maintain both exercise and rehab plans since they are all related to one another.

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Book Appointment Test case	

**Self Start System
Test Case Specification (TCS)
Book Appointment Test case**

Version 1.0

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Book Appointment Test case	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Book Appointment Test case	Jak Terpak

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Book Appointment Test case	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Book Appointment Test case	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is called Book Appointment Test case. This document outlines the expected functionality when a user books an appointment.

2. Test items

Book-appointment Component – this is the component that handles all of the booking appointments

3. Input specifications

The user clicks book appointment and is navigated to the book appointment page

4. Output specifications

If the user clicks the book appointment button without being signed in they will be re directed to the sign up page.

If the user is logged in and they attempt to book an appointment they will be redirected to a page with two options, book appointment, and book initial consultation.

If it is the users first time booking an appointment, or they have a new injury, they will click the initial consultation form.

If the user is booking a follow up appointment they will click the book appoint form. Once book appointment is click the user selects date and time of the appointment and uploads images of themselves.

5. Environmental needs

Internet, web browser

6. Special procedural requirements

In order to book an appointment, you must first be registered and agreed to a payment plan.

7. Intercase dependencies

- Payment test case
- Sign up
- Sign in

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Exercises Test Case	

**Self Start System
Test Case Specification (TCS)
Manage Exercises Test Case**

Version 1.0

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Exercises Test Case	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Manage Exercises Test Case	Jak Terpak

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Exercises Test Case	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

<i>Self Start System</i>	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Exercises Test Case	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is the Manage Exercises Test Case. This document will outline the expected functionality when attempting to add, edit, and delete Exercises within the Physiotherapist role.

2. Test items

Exercises component – This is the component that manages all the interactions that a physiotherapist would have with the different exercises such as creating, deleting, and editing

3. Input specifications

The physio comes in and clicks the exercises button on the side navigation bar. This will display a list of all the exercises currently in the system. The Physio then has the choice to edit, delete, or create new exercise.

4. Output specifications

If the physio clicks create new exercise a modal should pop up where they can fill in all the required fields. The physio can also upload one or several photos to the associated exercise.

If the physio clicks delete exercise a modal should pop up asking them if they are sure

If the user clicks edit a modal pops up where they can edit all the fields they wish to change, then they confirm.

5. Environmental needs

Internet, web browser

6. Special procedural requirements

Must log in as a Physio to access this functionality

7. Intercase dependencies

N/A

SE 3350y - SOFTWARE ENGINEERING DESIGN I

**Self Start System
Test Case Specification (TCS)
Complete Tests Test**

Version <1.0>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Complete Tests Test>	

Revision History

Date	Version	Description	Author
<09/04/19>	<1.0>	<Complete Tests Test>	<Craig Cook>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Complete Tests Test>	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	5

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Complete Tests Test>	

Test Case Specification (TCS)

1. Test case specification identifier

The Complete Tests case gets its name from the fact that we need to test the system's ability for a patient user to complete the assessment tests they've been assigned.

2. Test items

The component that we will be testing for this specification is the complete-assessment-test component because it contains the features that make this use case functional. These functionalities will be explained in more detail below, however, they are all made possible by the complete-assessment-test component.

3. Input specifications

Once a client is signed in as a user, their dashboard will show all assessment tests that they are currently assigned to. Within this view, the client will be able to open their current assessment tests and ultimately complete these exercises on their own time.

4. Output specifications

It is expected that once the client completes an assigned assessment test, Self Start will automatically notify their physiotherapist that they have finished the exercise. This will be seen on the physiotherapist's dashboard as a clear, attention-grabbing icon that can't be missed.

5. Environmental needs

The only notable constraint to executing this test case is the completion of an assessment test. This completion will trigger the notification to be sent to the physiotherapist.

6. Special procedural requirements

Self Start will of course need a secure internet connection in order to complete this transaction between multiple actors within the system.

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Complete Tests Test>	

7. Intercase dependencies

The Complete Tests test case is dependent on the Manage Assessments and Generate Report test cases. This is because Self Start provides physiotherapists the ability to generate data analysis that reflect the impact of the assessment tests, and to update or delete tests as needed also. These test cases are all required to pass successfully so that the original system requirements are fulfilled.

<i>Self Start</i>	Version: <1.0>
Test Case Specification (TCS)	Date: 09/04/2018
Loop Solutions Inc	

**Self Start System
Test Case Specification (TCS)
Manage Assessment Test**

Version <1.0>

<i>Self Start</i>	Version: <1.0>
Test Case Specification (TCS)	Date: 09/04/2018
Loop Solutions Inc	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Manage Assessment Tests	Andrew Black

<i>Self Start</i>	Version: <1.0>
Test Case Specification (TCS)	Date: 09/04/2018
Loop Solutions Inc	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

<i>Self Start</i>	Version: <1.0>
Test Case Specification (TCS)	Date: 09/04/2018
Loop Solutions Inc	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is Manage Assessment Test, and it pertains to the component in the physiotherapists portion of the site where the physio wants to create, delete or edit an assessment test.

2. Test items

The components to be tested are listed as before, and include the Assessment Test component of the physio's page. The features being tested in this component are the edit, delete and create functionalities of the assessment test objects.

3. Input specifications

In order to properly ascertain results from this test, one must test each of the three main functionalities of managing an assessment test. The input for each three options in manage would be, a new assessment object for create, and edited assessment test object for edit, and the removal of an assessment test object for delete.

4. Output specifications

The outputs for each of the three manage options must be computed manually to observe their outputs. On creation of a new assessment test, it should appear in the list of existing assessment tests with the corresponding information that was entered. For editing an assessment test, the assessment test object should properly reflect the changes made to the object upon changing it. Finally, for delete the assessment test object should be removed from the list and no longer exist within the database.

5. Environmental needs

An internet connection and a computer.

6. Special procedural requirements

N/A

7. Intercase dependencies

N/A

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Assign Plan Test Case	

Self Start System
Test Case Specification (TCS)
Assign Plan Test Case

Version 1.0

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Assign Plan Test Case	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Assign Plan Test Case	Jak Terpak

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Assign Plan Test Case	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Assign Plan Test Case	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is Assign Plan Test Case. The purpose of this testing case is to outline the expected flow of the physio assigning a rehab plan to a client.

2. Test items

Assign-plan component – this component handles assigning plans to clients.

Rehab-plans component – This is the component that manages rehab plans

3. Input specifications

The physio signs in and clicks manage rehab plans. From here the physio clicks a specific plan and can choose to assign to multiple clients.

4. Output specifications

The physio can view different plans and add and remove clients from and to the plan as necessary. When a client is added to the plan, the list will grow, when it is removed the list will shrink.

5. Environmental needs

Internet, web browser

6. Special procedural requirements

You must be Signed in as a physio to test this

7. Intercase dependencies

- Sign in

<i>Self Start</i>	Version: <1.0>
Test Case Specification (TCS)	Date: 09/04/2018
Loop Solutions Inc	

**Self Start System
Test Case Specification (TCS)
Manage Findings & Outcomes**

Version <1.0>

<i>Self Start</i>	Version: <1.0>
Test Case Specification (TCS)	Date: 09/04/2018
Loop Solutions Inc	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Manage Findings & Outcomes	Andrew Black

<i>Self Start</i>	Version: <1.0>
Test Case Specification (TCS)	Date: 09/04/2018
Loop Solutions Inc	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

<i>Self Start</i>	Version: <1.0>
Test Case Specification (TCS)	Date: 09/04/2018
Loop Solutions Inc	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is Manage Findings & Outcomes, and it pertains to the component in the physiotherapists section of the site where they are able view the results of a client's completed assessment test and rate their progress as well as change the status of the current assessment tests.

2. Test items

The items to be tested are contained in a tab within the physiotherapists assessment test section. The items include transition a pending completed assessment test to a fully completed one by assigning a physio rating and physio description to the completed tests.

3. Input specifications

The input required for this test, is a user's pending completed assessment test, and the number rating as well as text description of the physio's comments.

4. Output specifications

The outputs for this test should be as follows: the pending assessment test should become a completed assessment test containing the entirety of the previous assessment tests information, including the new physio rating and description.

5. Environmental needs

An internet connection and a computer.

6. Special procedural requirements

N/A

7. Intercase dependencies

- Complete Assessment Test
- Manage Assessment Test

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Assign Plan Test Case	

Self Start System
Test Case Specification (TCS)
Assign Plan Test Case

Version 1.0

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Assign Plan Test Case	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Assign Plan Test Case	Jak Terpak

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Assign Plan Test Case	

Table of Contents

1.#	Test case specification identifier	4#
2.#	Test items	4#
3.#	Input specifications	4#
4.#	Output specifications	4#
5.#	Environmental needs	4#
6.#	Special procedural requirements	4#
7.#	Intercase dependencies	4#

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Assign Plan Test Case	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is Assign Plan Test Case. The purpose of this testing case is to outline the expected flow of the physio assigning a rehab plan to a client.

2. Test items

Assign-plan component – this component handles assigning plans to clients.

Rehab-plans component – This is the component that manages rehab plans

3. Input specifications

The physio signs in and clicks manage rehab plans. From here the physio clicks a specific plan and can choose to assign to multiple clients.

4. Output specifications

The physio can view different plans and add and remove clients from and to the plan as necessary. When a client is added to the plan, the list will grow, when it is removed the list will shrink.

5. Environmental needs

Internet, web browser

6. Special procedural requirements

You must be Signed in as a physio to test this

7. Intercase dependencies

- Sign in

SE 3350y - SOFTWARE ENGINEERING DESIGN I

Self Start System Test Case Specification (TCS) Complete Exercise Test

Version <1.0>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Complete Exercise Test>	

Revision History

Date	Version	Description	Author
<09/04/19>	<1.0>	<Complete Exercise Test>	<Craig Cook>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Complete Exercise Test>	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	5

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Complete Exercise Test>	

Test Case Specification (TCS)

1. Test case specification identifier

In order for our developers to identify the functionality associated with this test case, a descriptive name that is representative of our test objective is needed. As a result, we will name this test case as the Complete Exercise Test since we are testing the case of completing a client exercise.

2. Test items

The client-exercise component will be tested here. The functionality included in this component should allow for the classification between completed and incomplete exercises. Once the completed exercise is identified, the component will be deemed successful.

3. Input specifications

Online patients must be logged in for the ability to navigate and open their treatment exercises through our simplistic and intuitive menu options. They will follow the on-screen prompts to complete their assigned exercises which will let them continue further with their personal plan.

4. Output specifications

The Self Start system is expected to notify physiotherapist admin accounts on their dashboard after the client has completed their assigned exercises. This notification will be seen on their account dashboard so that it is clear when a client is progressing with their treatment.

5. Environmental needs

The patients must be allowed to explore and view their treatment exercises through an easy to follow menu options and text-based guidance. This is done only by signing in as a patient profile, and this platform is needed in order to access this feature.

6. Special procedural requirements

The requirement for executing this test case is of course that the client has completed as assigned exercise.

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Complete Exercise Test>	

7. Intercase dependencies

The Complete Exercises test case is dependent on the following test cases; Manage Assessments and Generate Report. After exercises have been completed, the physiotherapist will then have to summarize their reports based from the exercises, and then develop additional exercises as required.

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Create New Account Test Case	

**Self Start System
Test Case Specification (TCS)
Create New Account Test Case**

Version 1.0

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Create New Account Test Case	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Create New Account Test Case	Jak Terpak

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Create New Account Test Case	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Create New Account Test Case	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is Create New Account Test Case. This document outlines the expected behavior when a user creates an account on the site.

2. Test items

Sign-up Component – this is the component that the user uses to sign up.

3. Input specifications

The user clicks sign up and is redirected the page where they are prompted to fill out all of the required fields.

4. Output specifications

The user clicks sign up and the system validates all the input fields, if there are any errors in the fields you will be prompted to try again. If it was successful you will be sent an email to verify your account.

Once you click the link set to your email you will be validated as a client and good to log in.

5. Environmental needs

Internet, Web Browser

6. Special procedural requirements

N/A

7. Intercase dependencies

N/A

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Patient Profile Test Case	

Self Start System Test Case Specification (TCS)

Manage Patient Profile Test Case

Version 1.0

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Patient Profile Test Case	

Revision History

Date	Version	Description	Author
09/04/2018	1.0	Manage Patient Profile Test Case	Jak Terpak

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Patient Profile Test Case	

Table of Contents

1. Test case specification identifier	4
2. Test items	4
3. Input specifications	4
4. Output specifications	4
5. Environmental needs	4
6. Special procedural requirements	4
7. Intercase dependencies	4

Self Start System	Version: 1.0
Test Case Specification (TCS)	Date: 09/04/2018
Manage Patient Profile Test Case	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is Manage Patient Profile Test Case. This test case handles all the managing of client accounts that a physio can do.

2. Test items

Patient-profile Component – This is the component that handles the managing of Client Profiles for the Physiotherapist to manage.

3. Input specifications

The Physio Signs in and navigates to the manage client profiles page via the styles side navigation.

4. Output specifications

The Physio is display a list of the clients within the system. They have the ability to edit and delete clients but not create.

Edit and delete are the same functionality as the manage user accounts test case.

5. Environmental needs

Internet, Web Browser

6. Special procedural requirements

You must be logged in as a physio first.

7. Intercase dependencies

N/A

SE 3350y - SOFTWARE ENGINEERING DESIGN I

Self Start System Test Case Specification (TCS) Make Payment Test

Version <1.0>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Make Payment Test>	

Revision History

Date	Version	Description	Author
<09/04/19>	<1.0>	<Make Payment Test>	<Craig Cook>

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Make Payment Test>	

Table of Contents

1.	Test case specification identifier	4
2.	Test items	4
3.	Input specifications	4
4.	Output specifications	4
5.	Environmental needs	4
6.	Special procedural requirements	5
7.	Intercase dependencies	5

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Make Payment Test>	

Test Case Specification (TCS)

1. Test case specification identifier

The name of this test case is Make Payment Test since we are testing the case of completing a client exercise. In order for our developers to identify the functionality that needs to be tested, a descriptive name was needed to be assigned.

2. Test items

This test case will involve the payment component and its function. Since we are also adopting the PayPal payment API for use within the Self Start system, we must also test the functionality of this as well.

3. Input specifications

After a patient has researched which payment plan is best for their needs, they are prompted with aesthetically pleasing buttons to enter the payment portal. This takes them to proceed with payment over the PayPal API, where verification of personal information also takes place.

4. Output specifications

After the patient payment has been processed by the online PayPal portal, Self Start will redirect the user back to the main site, and confirm with the patient if their transaction has been completed successfully. This will trigger a variety of functions including updating the patient's assessment plan and payment history.

5. Environmental needs

The PayPal payment platform is needed to execute this test case. Our system uses the PayPal API to facilitate payment on our Self Start system, therefore this platform must be working to ensure that the entirety of this test completes with success.

<Project Name>	Version: <1.0>
Test Case Specification (TCS)	Date: <09/04/18>
<Make Payment Test>	

6. Special procedural requirements

In order to finally access the payment form, the patient must be logged in to a user account with valid personal and payment information. This is because a patient must be logged in to choose a service package in the first place.

7. Intercase dependencies

The Make Payment Test is dependent on the Book Appointment Test since the patient is required to pay before their appointment has been confirmed.