**SE3352a: Software Requirements and Analysis**

**Brigade**

**Modern Software Requirements Specification**

**For WE Admission System**

**Version 1.0**



<Team Name>

Modern Software Requirements Specification

For Self Start System>

Version <1.0>

# **2.** **Overall Description**

### **2.1.1** **Introduction**

As a way to describe the functionality and implementation, use case is used to simulate the functions of the system. It shows the interaction between the system and external users called actors. Use case diagram simulates basic functionality. The use cases in this project is essential to achieve the end goal of an object oriented system to serve marcotte physiotherapy. The system can be used by all users who has access to the internet. Each use case in this model is going to serve both host and client to efficiently get treatment or request booking automatically.

### **2.1.2** **Survey Description**

Self start is a web based application that appends from marcotte physiotherapy website. The purpose of the system is to automate the booking process and easily access treatment online with a corresponding symptom. The system is maintained by the admin and offer currently employed physiotherapist to add a treatment plan to a patient. The system interacts with available physiotherapist’s schedule to automate booking process.

### **2.1.3** **Use-Case Model Hierarchy**

|  |  |
| --- | --- |
| **Actors** | **Descriptions** |
| User | The user has generic structure for other actors (admin, physiotherapist, patient) |
| Admin | The administrator of the system is responsible for maintaining data of the users |
| Physiotherapist | Currently employed physiotherapist at marcotte physiotherapy |
| Patient | New or current user accessing Self start |
| PayPal | Payment option for the patient |

|  |  |
| --- | --- |
| **Use Case** | **Descriptions** |
| changePassword | Change password of its user |
| AuthenticateUser | While logging in, ask for username and password |
| FillInAssesmentTest | Simple closed question form to the user to be assessed by the physiotherapist |
| BookAppointment | Book an appointment online based on employee's schedule. It Includes uploadImages |
| Ask A Physio | The system allows patients to fill out a form to describe their injury to be examined by physiotherapist |
| createAccount | The system allows users to create account, registering username and password to the database |
| ViewExercises | The system allows authenticated user to view list of exercise assigned by the physiotherapist |
| MakePayment | Make payment for the service via paypal |
| UploadImages | Upload the image of injury while booking an appointment to allow physiotherapist to evaluate beforehand. |
| generateReport | Generate a report of the user, summarizing symptoms and treatment. This includes VisualizeDataAnalysis, print and send use case. |
| VisualizeDataAnalysis | Uses assessment test results to visualize the effects of the treatment |
| print | The system provide an ability to print generated report |
| send | The system enables physiotherapist to send generated report by email |
| createExercise | The system allows physiotherapist to create new exercise to save it in the database. |
| manageRehabilitationPlan | The system allows physiotherapist to add, delete or update rehabilitation plan that has list of exercise and assessment test |
| AssignRehabilitationPlan | The system allows physiotherapist to assign rehabilitation plan to the patient |
| ManageQuestions | The system allows admin to add delete or update the question made by the patent |
| ManageAccounts | The system allows admin to add delete or update the account of all users in the database |

**2.2 Assumptions and Dependencies**

In self start program, brigade team have assumed that unauthenticated user can only post once in ask physio and must be authenticated before posting another one. Secondly, we have assumed that the client is going to pay using PayPal.

## **3.2** **Functionality**

1. The system should provide a way for users(patient, physiotherapist, admin) to log in. Upon login, the server system authenticates encrypted username and password. The system should dynamically provide user different level of power depending on their status.
2. The system will offer a single admin account. This admin account have capacity to create new accounts of different power (patient, physiotherapist). Additionally, administrators has the power to manage accounts in the database
3. Every user has the ability to change its own password
4. The system should provide the physiotherapist be able to create a new exercise and manage plans accordingly.
5. The system should provide a form when modifying userdata, providing all the attributes of its corresponding user
6. The system should provide a user to fill out form for a user that enables to include an image or book an appointment and send it to the available physiotherapist to evaluate.
7. The system should provide the physiotherapist to continue or terminate the treatment(s) of the user
8. The system should allow user to fill out the response after the treatment have concluded.
9. The system should support Node.js framework.
10. The system administrator shall have the ability to add users with different level of privilege.