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**COMSATS University Islamabad (CUI)**

Software Requirement Specification  
(SRS DOCUMENT)

for

**SPATIAL NEGLECT**

Version 1.0

***By***

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Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason for Changes** | **Version** |
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Application Evaluation History

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| **Comments (by committee)**  **\*Include the ones given at scope time both in doc and presentation** | **Action Taken** |
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Supervised by

Supervisor’s Name

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# 

# Introduction

Neglect App will be a platform for Neglect Patients where they will perform activities like copying pictures, scratching specific objects in image and then our ML model will classify the activity result as Left or right or No neglect. Rehabilitation plan for Neglect removal will be also consisted of such activities and Neglect will be measured. Graphical and statistical Reports about patient improvements will be also generated helping doctor in better decision making for future rehabilitation plan activities and guiding guardians towards improvement in related patient performance with each appointment.

## Purpose

This document will clearly define the agreed functional as well as non-functional requirements for the Proposed Neglect App. This document will tell how our App will work and what features will it includes. SRS document for Neglect App will define the requirements to achieve Neglect detection and Rehabilitation.

This document is for Project Stakeholders and will include purpose, scope, modules limitation, constraints of proposed system. After reading the document, Reader will clearly understand under what conditions and requirements, proposed system will work and what will be main features of Application.

## Scope

The proposed system shall be web application designed for doctors to assess and rehabilitate patients suffering from Spatial neglect. Neglect detector will detect the neglect issue in patients through examining exercise result and then Rehabilitation plan will be provided that will be consisted of series of exercises.

The doctor will be able to keep a log of his patients and schedule appointments, where in each appointment, the patient will perform the required exercises. The doctor will be able to generate reports and visualize them to understand the severity of the disorder of patient.

## Modules

## Module 1: Account Manager

Account manager will be consisted of user account related tasks. Varieties of options will be provided to doctors for signing up for using Application services.

* Doctors will be able to Sign up and then login.
* Various signup options will be provided to doctors.
* Doctors can manage their profile information.
* Doctors will add Patients and update and delete patients record.
* Admin will be able to login.
* Admin will be able to delete or block doctor.
* Admin will be able to verify payments.
* Admin will be able to add images in training set

## Module 2: Neglect Detector with Whiteboard

Neglect detector will be an entry point to the way of patient treatment. Neglect detector will determine whether a neglect issue exists in a patient or not using Image classifier Model.

* Provides patient with an image to copy.
* Whiteboard will be provided with marker to copy the given image on whiteboard.
* Timer will start when exercise begins.
* After finishing exercise our CNN classifier will determine while copying patient neglected left side or right side or no side of on image.
* Neglect will be detected.

## Module 3: Neglect Rehabilitator

After successful detection of neglect, Patient will be provided with Rehabilitation exercises to measure accuracy and in this way, patient will be able to help himself in rehabilitating from neglect through performing exercises in different appointments. Rehabilitation program will consist of a series of Appointments and appointments will be consisted of rounds.

* Patients will be needed to scratch circles in an image through marker provided.
* After finishing exercise our trained Model will generate report giving information about how many circles he found and correctly scratched using object detection and object counting features.
* Report will also tell how many circles he/she missed to scratch hence accuracy will be measured.

## Module 4: Report Generator and Milestone

For better understanding of patient recovery and improvement in exercise performance, graphs will be generated that will clearly express where rehabilitation plan of patient is reached and in comparison, with other patients where he stands according to performance?

* Doctor will be able to generate report of patients based on his performance in exercises during appointments
* Comparison between recovery of patient with other patients will be represented in form of graph through ML models with respect to performance in each round.
* Statistical data about recovery during each appointment will be also shown in table form.
* Doctor will be able to create and save his observations about reports for future use.

Based on performance of exercises performed during previous appointments, new milestone points will be awarded to reach in next appointment. Milestone point will be basically a performance measure that will tell doctor about where rehabilitation program reached and what is next goal of improvement for patient.

* Milestone point for next appointment will be generated for current patient.
* Reward points will be awarded to patient after successfully completing milestone.
* Doctor will be able to create and save text note about milestones for future use.

## Module 5: Patient and appointments Logging

Doctors need to maintain log of patients so appointments related work will be done. It will make easier for doctor to view schedule appointments and manage appointments accordingly

* Allow doctors to keep log of his patients and schedule appointments for them.
* Allow doctors to start or finish appointments.
* Allow doctors to reset appointments if needed
* Doctors will be able to see brief record of patients.

## Module 6: Reviews and Feedback

It will be platform where doctor can post his queries or report a problem or provided feedback about app. Admin will reply to posted queries or feedback.

* Doctor will be able to post a query or feedback.
* Doctor will be able to review his query if he finds any mistake.
* Admin will be replying to queries posted.

## Module 7: Payments

Doctor will be able to pay charges for using the application services through variety of options available.

* Doctor will be able to pay charges through credit card.
* Doctor will be able to pay charges through Providing bank account information also.

## Overview

Intended audience for Neglect Application are

1. Client
2. Supervisor
3. Project committee members

# Overall Description

## Product Perspective

Neglect App is a self-contained product. There exists an application like it called “Visual Attention Therapy”. This application is only useful for detecting of missed objects and does not detect neglect. Furthermore, it has not left/right neglect detection feature involved. Whereas our product will be useful for both right and left neglect detection and its rehabilitation.

Diagram, schematic

Description automatically generated

**Fig 1: Context Diagram for Neglect App**

## User classes and characteristics

Table 1

|  |  |
| --- | --- |
| **User class** | **Description** |
| **Doctor** | The doctor will be able to register himself and create a log of all his patients. The doctor will be responsible for maintaining each patient’s profile and will maintain appointments. The doctor can generate milestones and reports for each of the patients and compare patients’ performances. The doctor will also have to pay to use the application. The doctor will have control of the application. Since it may be hard for the patient to navigate through the application, having lost the sense of left/right perception. |
| **Patient** | Patient will draw on the whiteboard so that the doctor can assess him/her for neglect. During an appointment, the patient will perform exercises specified and started by the doctor. At the end of the appointment, the patient will be awarded points based on his/her performance. |
| **Admin** | The admin will maintain records of all the doctors and their patients. Admin will also respond to feedback and reviews. Admin is also responsible to keep a check on the payments. |
| **Guardian** | Guardian will be able to register patient for neglect treatment. Guardian will use free detector exercise tool to detect neglect in patient and then contact doctor for setting appointment for Patient. Guardian will be able to see reports of Rehabilitation plan for patient. |

## Operating Environment

OE-1: The System will operate properly with web browsers having https version 1.0 or 1.1.

OE-2: Stable Internet connection will be needed for App to work properly.

OE-3: Neglect App will work properly only on Laptops using Windows 10 or higher OS and macOS.

OE-4: App will work properly on all well-known web browsers like Google Chrome, Firefox, and Safari etc.

OE-5: User device RAM should be at least 4GB for good experience.

OE-6: Services will be available for Users of Pakistan only in beginning but with time it will be expanded to other countries also.

## Design and Implementation Constraints

1. System shall use

* Mongo dB Community Server as backend database engine.
* Express and node for backend API development.
* React as Frontend JS library.
* TensorFlow for ML related task

1. Developer needs to understand English Language to write content in well manner.
2. VS Code will be required for entire App Development.
3. Developer needs to make sure the authentication and security of App data.
4. Developer needs to follow Component based Approach to develop Application.

# Requirement Identifying Technique

## Use case diagrams

### UC-diagram 1

Diagram

Description automatically generated

**Fig 2: Use Case Diagram-1 for doctor**

### UC-diagram 2

Diagram

Description automatically generated

**Fig 3: Use Case Diagram-2 for doctor**

### UC-Diagram 3

Diagram

Description automatically generated

**Fig 4: Use Case Diagram-3 for doctor**

### UC-Diagram 4

Chart, diagram

Description automatically generated

**Fig 5: Use Case Diagram-1 for Admin**

### UC-Diagram 5

Diagram

Description automatically generated

**Fig 6: Use Case Diagram-2 for Admin, Patient**

### UC-Diagram 6

Diagram

Description automatically generated

**Fig 7: Use Case Diagram-2 for Guardian**

## Descriptive use cases

### Module 1: Account Manger

#### UC-1.1 Login

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.1 |
| **Use Case Name:** | Login |
| **Actors:** | Primary Actors: Doctor, Admin, Guardian |
| **Description:** | User will login to account for using services provided by Application |
| **Trigger:** | User Click Login Button |
| **Preconditions:** | User must be registered |
| **Postconditions:** | User is logged into system.  Dashboard page will be shown. |
| **Normal Flow:** | 1. User enters Email 2. User enters Password 3. User clicks Login Button 4. User gets Login to system 5. User is redirected to Dashboard page |
| **Alternative Flows:** | 1a. In normal flow step 1, if user enters incorrect email  Login is disapproved  Error message about re-enter Email appears  User enters correct Email  Use Case resumes from Step 1 of Normal flow  2a. In normal flow step 2, if user enters incorrect password  Login is disapproved  Error message about re-enter Password appears  User enters correct password  Use Case resumes from Step 2 of Normal flow |
| **Exceptions:** | Account does not exist  Internet connection loses |
| **Business Rules:** | Password must be at least five characters long |
| **Assumptions:** | User understands English  User has stable internet connection |

#### UC-1.2 Signup

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.2 |
| **Use Case Name:** | Sign up |
| **Actors:** | Primary Actors: Doctor, Guardian |
| **Description:** | Doctor will create Account |
| **Trigger:** | Doctors click Signup Button |
| **Preconditions:** | Doctor has an active email |
| **Postconditions:** | Doctor Account will be created Successfully |
| **Normal Flow:** | 1. Doctor enters name 2. Doctors enter Email 3. Doctors enter age 4. Doctors enter phone number 5. Doctors enter password 6. Doctor clicks send Verification code 7. Doctor enters Verification code 8. Doctor clicks Signup Button |
| **Alternative Flows:** | 2a. Doctor entered incorrect email  Error message will be shown  Use case will continue from step 2 of normal flow  2a. Doctor entered age less than 22  Error message will be shown  Use case will continue from step 3 of normal flow  5a. Doctor entered password of length less than 5  Error message will be shown  Use case will continue from step 5 of Normal flow  7a. Doctor enters incorrect verification code  Error message will be shown  User click resend code  Use case will continue from step 7 of Normal flow |
| **Exceptions:** | Verification code email not arrived in email  Internet connections lose |
| **Business Rules:** | There will be only one account associated with each email  Password length shall be at least 5  Verification code shall be of length 4  Age should be at least 22 |
| **Assumptions:** | Doctor have all necessary information required by Application |

#### UC-1.3 Logout

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.3 |
| **Use Case Name:** | Logout |
| **Actors:** | Primary Actors: Doctor, Admin, Guardian |
| **Description:** | User will be logout of an account and cannot until gets login again |
| **Trigger:** | User Click Logout Button |
| **Preconditions:** | User must be logged in already |
| **Postconditions:** | User Account will be logged off. |
| **Normal Flow:** | User clicks Logout  Users click Ok in warning console |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | User is aware that unsaved changes will be lost when account is logout |

#### UC-1.4 Forget Password

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.4 |
| **Use Case Name:** | Forget Password |
| **Actors:** | Primary Actors: Doctor, Admin, Guardian |
| **Description:** | Users forget password and wants to reset password |
| **Trigger:** | User Click Forget password |
| **Preconditions:** | User must be registered |
| **Postconditions:** | User Account password will be updated |
| **Normal Flow:** | 1. User enters email 2. User clicks forget password 3. User enters verification code 4. Users enter new password 5. User enter confirm password 6. User click reset password 7. User password updated |
| **Alternative Flows:** | 1a. User enters incorrect email  Error will be shown  Use case will resume from step 1 of Normal flow  3a. Users enter incorrect verification code  Error will be shown  Use case will resume from step 3 of Normal flow  4a. User enters new password of length less than 5  Error will be shown  Use case will resume from step 2 of Normal flow  5a. User enter Confirm password that does not match with new password  Error will be shown  User case will resume from step 3 of Normal flow |
| **Exceptions:** | NIL |
| **Business Rules:** | Verification code must be 4-digit code  New password length must be at least 5 |
| **Assumptions:** | User remembers email |

#### UC-1.5 Change Password

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.5 |
| **Use Case Name:** | Change Password |
| **Actors:** | Primary Actors: Doctor, Admin, Guardian |
| **Description:** | User wants to reset password |
| **Trigger:** | User Click change password |
| **Preconditions:** | User must be logged in |
| **Postconditions:** | User Account password will be updated |
| **Normal Flow:** | 1. User enters old password 2. Users enter new password 3. User enter confirm password 4. User click reset password 5. User password updated |
| **Alternative Flows:** | 1a. User enters incorrect old password  Error will be shown  Use case will resume from step 1 of Normal flow  2a. User enters new password of length less than 5  Error will be shown  Use case will resume from step 2 of Normal flow  3a. User enter Confirm password that does not match with new password  Error will be shown  User case will resume from step 3 of Normal flow |
| **Exceptions:** | NIL |
| **Business Rules:** | Verification code must be 4-digit code  New password length must be at least 5 |
| **Assumptions:** | User remembers email |

#### UC-1.6 Update Profile

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.6 |
| **Use Case Name:** | Update Profile |
| **Actors:** | Primary Actors: Doctor, Admin, Guardian |
| **Description:** | User Profile details will be updated |
| **Trigger:** | User Click Edit Profile |
| **Preconditions:** | User must be logged in already |
| **Postconditions:** | User Account details will be updated |
| **Normal Flow:** | 1. User click View profile 2. Users select Profile section 3. User click edit details 4. User updates fields 5. User profile details will be updated |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | Password and other sensitive fields should appear in code form and not in readable text form |
| **Assumptions:** | NIL |

#### UC-1.7 Add training image

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.7 |
| **Use Case Name:** | Add training mage |
| **Actors:** | Primary Actors: admin |
| **Description:** | Admin want to add training image to database |
| **Trigger:** | Admin clicks add image |
| **Preconditions:** | Admin must be Logged in. |
| **Postconditions:** | Image will be uploaded to database |
| **Normal Flow:** | 1. Admin clicks chose image 2. Admin select image from device 3. Admin click upload 4. Image will be uploaded to database |
| **Alternative Flows:** | 2a. Admin select an image of format other than PNG,JPG, JPEG  Error message will be displayed  Use case will continue from step 1 of Normal flow  2b. Admin select an image of size greater than 5MB  Error message will be displayed  Use case will continue from step 1 of Normal flow |
| **Exceptions:** | Internet connections lose during uploading image  Image sizes were greater than 5MB |
| **Business Rules:** | Image size should be less than 5Mb |
| **Assumptions:** | User is logged in  Users know about PNG, JPEG format |

#### UC-1.8 Set doctor status

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.8 |
| **Use Case Name:** | Set Doctor status |
| **Actors:** | Primary Actors: admin |
| **Description:** | Admin want to manage doctor usage through blocking or unblocking account |
| **Trigger:** | Admin clicks Manage doctor |
| **Preconditions:** | Admin must be Logged in. |
| **Postconditions:** | Doctor account status will be set |
| **Normal Flow:** | 1. Admin clicks Doctor status 2. Admin View doctor record 3. Admin search doctor by name 4. Admin click record area 5. Admin set account status as blocked on unblocked |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | NIL |

#### UC-1.9 Search Doctor

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.9 |
| **Use Case Name:** | Search Doctor |
| **Actors:** | Primary Actors: admin |
| **Description:** | Admin want to search specific doctor account within list, so he enters name of doctor |
| **Trigger:** | Admin type doctor name |
| **Preconditions:** | Admin must be Logged in. |
| **Postconditions:** | Specific doctor record will be shown on screen |
| **Normal Flow:** | 1. Admin clicks in search field area. 2. Admin types of doctor name 3. Record will appear on screen |
| **Alternative Flows:** | NIL |
| **Exceptions:** | Internet connections lose during searching record  No doctor exists with name enter by Admin |
| **Business Rules:** | Doctor must type only text in search field |
| **Assumptions:** | NIL |

#### UC-1.10 Add Announcements

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.10 |
| **Use Case Name:** | Add Announcements |
| **Actors:** | Primary Actors: admin |
| **Description:** | Admin want to announce some Information for user so he will Post announcement or made changes to previously made announcement |
| **Trigger:** | Admin click Announcement |
| **Preconditions:** | Admin must be Logged in. |
| **Postconditions:** | Announcement will be posted |
| **Normal Flow:** | 1. Admin enters subject 2. Admins enter Description 3. Admin click Post |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | NIL |

#### UC-1.11 Update Announcements

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.11 |
| **Use Case Name:** | Update Announcements |
| **Actors:** | Primary Actors: admin |
| **Description:** | Admin want to made changes to previously made announcement |
| **Trigger:** | Admin click Edit Announcement |
| **Preconditions:** | Admin must be Logged in. |
| **Postconditions:** | Announcement will be updated |
| **Normal Flow:** | 1. Admin enters subject 2. Admins enter Description 3. Admin click Update |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | NIL |

#### UC-1.12 Delete Announcements

|  |  |
| --- | --- |
| **Use Case ID:** | UC-1.12 |
| **Use Case Name:** | Delete Announcements |
| **Actors:** | Primary Actors: admin |
| **Description:** | Admin want to delete previously made announcement |
| **Trigger:** | Admin click delete Announcement |
| **Preconditions:** | Admin must be Logged in. |
| **Postconditions:** | Announcement will be deleted |
| **Normal Flow:** | 1. Admin view announcement 2. Admin click delete announcement 3. Announcement will be deleted |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | NIL |

### Module 2: Neglect Detector with Whiteboard

#### UC-2.1 Draw image

|  |  |
| --- | --- |
| **Use Case ID:** | UC-2.1 |
| **Use Case Name:** | Draw image |
| **Actors:** | Guardian, Patient. |
| **Description:** | Patient will be able to draw image for assessment by the detector. |
| **Trigger:** | Mouse click and drag. |
| **Preconditions:** | Guardian should open whiteboard detector. |
| **Postconditions:** | Image will be ready to be downloaded. |
| **Normal Flow:** | 1. Guardian clicks on detector button. 2. The whiteboard is displayed with an image provided. 3. A default marker is selected. 4. Patient copies the given image. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | **BR-1:**  Patient should use the limited whiteboard area for drawing. |
| **Assumptions:** | Patient is comfortable using a mouse. |

#### UC-2.2 Start Activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-2.2 |
| **Use Case Name:** | Start activity |
| **Actors:** | Guardian |
| **Description:** | Guardian will be able to start the whiteboard activity. |
| **Trigger:** | Mouse click on detector button. |
| **Preconditions:** | The guardian should have logged in. |
| **Postconditions:** | Whiteboard will open. |
| **Normal Flow:** | 1. Whiteboard will be displayed. 2. Guardian will click on detector button. 3. Whiteboard will be displayed. 4. Activity will be started. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Patient must be assessed through whiteboard activity. |

#### UC-2.3 Finish Activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-2.3 |
| **Use Case Name:** | Finish activity. |
| **Actors:** | Guardian. |
| **Description:** | Guardian will be able to finish the whiteboard activity. |
| **Trigger:** | Mouse click on finish icon. |
| **Preconditions:** | The patient should have drawn final image. |
| **Postconditions:** | Neglect will be detected. |
| **Normal Flow:** | 1. Guardian will start detector. 2. Guardian will select marker. 3. Patient will draw image on whiteboard. 4. Guardian will click on finish icon. 5. A results page will be displayed. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | Nothing is drawn on the whiteboard. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Patient has drawn final drawing. |

#### UC-2.4 Clear whiteboard

|  |  |
| --- | --- |
| **Use Case ID:** | UC-2.4 |
| **Use Case Name:** | Clear whiteboard |
| **Actors:** | Guardian |
| **Description:** | Guardian will be able to clear the whiteboard. |
| **Trigger:** | Mouse click on clear whiteboard icon. |
| **Preconditions:** | There should be something drawn on the whiteboard. |
| **Postconditions:** | Whiteboard will be cleared. |
| **Normal Flow:** | 1. Patient will copy image on whiteboard. 2. Guardian will click on clear whiteboard icon. 3. The whiteboard will be empty. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | The whiteboard is already empty. |
| **Business Rules:** | NIL |
| **Assumptions:** | Patient wants to reset the drawing. |

#### UC-2.5 Change marker color

|  |  |
| --- | --- |
| **Use Case ID:** | UC-2.5 |
| **Use Case Name:** | Change marker color |
| **Actors:** | Guardian |
| **Description:** | Guardian will be able to change the color of marker while drawing. |
| **Trigger:** | Mouse-click on the desired color. |
| **Preconditions:** | Patient should be in the detection whiteboard. |
| **Postconditions:** | Marker color will be changed to the color selected. |
| **Normal Flow:** | 1. Guardian will start the activity. 2. Guardian will click on the desired color. 3. Marker color will change. 4. Patient will draw with the new color. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | The guardian clicks on the color that is currently selected. |
| **Business Rules:** | NIL |
| **Assumptions:** | Guardian wants a different marker color. |

#### UC-2.6 Pause Activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-2.6 |
| **Use Case Name:** | Pause activity |
| **Actors:** | Guardian |
| **Description:** | Guardian will be able to pause the drawing activity. |
| **Trigger:** | Mouse click on pause icon. |
| **Preconditions:** | The neglect whiteboard should be opened. |
| **Postconditions:** | Activity will be paused. |
| **Normal Flow:** | 1. Guardian will start the whiteboard activity. 2. Guardian will click on pause icon. 3. The activity will be paused as well as the timer. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL. |
| **Business Rules:** | **BR-1:**  Timer should pause.  **BR-2:**  The guardian should no longer be able to draw on the whiteboard. |
| **Assumptions:** | The activity needs to be paused due to some interruption. |

#### UC-2.7 Resume activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-2.7 |
| **Use Case Name:** | Resume activity |
| **Actors:** | Guardian |
| **Description:** | Guardian will be able to resume the drawing activity. |
| **Trigger:** | Mouse click on resume icon. |
| **Preconditions:** | The whiteboard activity should be paused. |
| **Postconditions:** | Activity will be resumed from where it was paused. |
| **Normal Flow:** | 1. Guardian will start the activity. 2. Guardian will pause the activity. 3. The activity will be paused as well as the timer. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL. |
| **Business Rules:** | **BR-1:**  Timer should start from where it was paused.  **BR-2:**  The patient should now be able to draw on the whiteboard. |
| **Assumptions:** | The activity needs to be resumed after being paused. |

#### UC-2.8 Cancel Activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-2.8 |
| **Use Case Name:** | Cancel activity |
| **Actors:** | Guardian |
| **Description:** | Guardian will be able to cancel the drawing activity. |
| **Trigger:** | Mouse-click on cancel icon. |
| **Preconditions:** | The whiteboard activity should be terminated. |
| **Postconditions:** | Activity will be terminated. |
| **Normal Flow:** | 1. Guardian will start the activity. 2. Guardian will cancel the whiteboard activity. 3. The activity will be terminated, and all user data will be lost. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL. |
| **Business Rules:** | NIL. |
| **Assumptions:** | The activity needs to terminate for some reason. |

#### UC-2.9 Undo

|  |  |
| --- | --- |
| **Use Case ID:** | UC-2.9 |
| **Use Case Name:** | Undo |
| **Actors:** | Guardian |
| **Description:** | Guardian will be able to undo last action. |
| **Trigger:** | Mouse click on undo icon. |
| **Preconditions:** | Patient should at least make one stroke before clicking on the button. |
| **Postconditions:** | Last stroke on the whiteboard will be removed. |
| **Normal Flow:** | 1. Guardian will start the activity. 2. Patient will draw something on whiteboard. 3. Guardian will click on undo icon. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | No strokes were made on the whiteboard. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Patient has made an error. |

#### UC-2.10 Change marker color size

|  |  |
| --- | --- |
| **Use Case ID:** | UC-2.10 |
| **Use Case Name:** | Change marker size |
| **Actors:** | Guardian |
| **Description:** | Guardian will be able to change the size of marker while drawing. |
| **Trigger:** | Mouse-click on the desired size. |
| **Preconditions:** | Guardian should be in the detection whiteboard. |
| **Postconditions:** | Marker color will be changed to the color selected. |
| **Normal Flow:** | 1. Guardian will start the activity. 2. Guardian will click on the desired size. 3. Marker size will change. 4. Patient will draw with the new marker size. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | The guardian clicks on the size that is currently selected. |
| **Business Rules:** | NIL |
| **Assumptions:** | Guardian wants a different marker size. |

### Module 3: Neglect Rehabilitator

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.1 |
| **Use Case Name:** | Scratch Circle |
| **Actors:** | Patient |
| **Description:** | Patient will be able to scratch circle in image through marker. |
| **Trigger:** | Mouse click and drag. |
| **Preconditions:** | Appointment must be started already  Doctor must be login |
| **Postconditions:** | Circle identification will lose. |
| **Normal Flow:** | 1. Doctor clicks on Rehabilitation button. 2. The image appears. 3. A default marker is selected. 4. Patients scratch the circles. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | **BR-1:**  Patient should use the limited image area for scratching. |
| **Assumptions:** | Patient should be comfortable with using a mouse. |

#### UC-3.1 Scratch Circle

#### UC-3.2 Start Rehabilitation activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.2 |
| **Use Case Name:** | Start Rehabilitation activity. |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to start the Rehabilitation activity. |
| **Trigger:** | Mouse click on Start Activity button. |
| **Preconditions:** | The doctor should have logged in. |
| **Postconditions:** | Image will become editable. |
| **Normal Flow:** | 1. Doctor will click Rehabilitator 2. Image will be shown 3. Doctor click start activity 4. Image will become editable 5. Marker will be selected automatically 6. Activity will be started |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Patient must be assessed through image scratching activity. |

#### UC-3.3 Finish Rehabilitation activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.3 |
| **Use Case Name:** | Finish Rehabilitation activity. |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to finish the rehabilitation activity. |
| **Trigger:** | Mouse click on finish icon. |
| **Preconditions:** | The patient should have scratch circles. |
| **Postconditions:** | Neglect will be detected. |
| **Normal Flow:** | 1. Doctor will start Rehabilitation Activity. 2. Doctor will select marker. 3. Patient will scratch circles of image. 4. Doctor will click on finish icon. 5. A results page will be displayed. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | No scratching done by patient |
| **Business Rules:** | NIL. |
| **Assumptions:** | Patient has scratch circles. |

#### UC-3.4 Clear All

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.4 |
| **Use Case Name:** | Clear All |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to clear the scratches. |
| **Trigger:** | Mouse click on clear Scratch icon. |
| **Preconditions:** | There should be some scratches on the image. |
| **Postconditions:** | All scratches in the image will be clear. |
| **Normal Flow:** | 1. Patient will scratch circles in image. 2. Doctor will click on clear scratch icon. 3. The scratches will be clear |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | There is no scratch in the image. |
| **Business Rules:** | NIL |
| **Assumptions:** | Patient wants to clear all scratches. |

#### UC-3.5 Change marker color

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.5 |
| **Use Case Name:** | Change marker color |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to change the color of marker while scratching. |
| **Trigger:** | Mouse-click on the desired color. |
| **Preconditions:** | Patient should be in the Rehabilitation image edit area. |
| **Postconditions:** | Marker color will be changed to the color selected. |
| **Normal Flow:** | 1. Doctor will start the activity. 2. Doctor will click on the desired color. 3. Marker color will change. 4. Patient will draw scratches with color selected. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | The doctor clicks on the color that is currently selected. |
| **Business Rules:** | NIL |
| **Assumptions:** | Doctor wants a different marker color. |

#### UC-3.6 Pause Rehabilitation activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.6 |
| **Use Case Name:** | Pause Rehabilitation activity |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to pause the rehabilitation activity. |
| **Trigger:** | Mouse click on pause icon. |
| **Preconditions:** | The neglect rehabilitation exercise should be started already. |
| **Postconditions:** | Activity will be paused. |
| **Normal Flow:** | 1. Doctor will start the rehabilitation activity. 2. Doctor will click on pause icon. 3. The activity will be paused as well as the timer. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL. |
| **Business Rules:** | **BR-1:**  Timer should pause.  **BR-2:**  The patient should no longer be able to draw scratches on circles in image. |
| **Assumptions:** | The activity needs to be paused due to some interruption. |

#### UC-3.7 Resume Rehabilitation activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.7 |
| **Use Case Name:** | Resume Rehabilitation activity |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to resume the rehabilitation activity. |
| **Trigger:** | Mouse click on resume icon. |
| **Preconditions:** | The rehabilitation activity should be paused. |
| **Postconditions:** | Activity will be resumed from where it will be paused. |
| **Normal Flow:** | 1. Doctor will start the activity. 2. Doctor will pause the activity. 3. The activity will be paused as well as the timer. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL. |
| **Business Rules:** | **BR-1:**  Timer should start from where it was paused.  **BR-2:**  The patient should now be able to draw scratches on the image area. |
| **Assumptions:** | The activity needs to be resumed after being paused. |

#### UC-3.8 Cancel Rehabilitation activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.8 |
| **Use Case Name:** | Cancel Rehabilitation activity |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to cancel the rehabilitation activity. |
| **Trigger:** | Mouse-click on back icon. |
| **Preconditions:** | The rehabilitation activity should be terminated. |
| **Postconditions:** | Activity will be terminated. |
| **Normal Flow:** | 1. Doctor will start the activity. 2. Doctor will cancel the rehabilitation activity. 3. The activity will be terminated, and all scratches will be lost. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL. |
| **Business Rules:** | NIL. |
| **Assumptions:** | The activity needs to terminate for some reason. |

#### UC-3.9 Undo scratch

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.9 |
| **Use Case Name:** | Undo scratch |
| **Actors:** | Primary actor: Doctor Secondary actor: Patient. |
| **Description:** | Doctor will be able to undo last scratch. |
| **Trigger:** | Mouse click on undo icon. |
| **Preconditions:** | Patient should at least make one scratch before clicking on the button. |
| **Postconditions:** | Most recent scratch will be removed. |
| **Normal Flow:** | 1. Doctor will start the activity. 2. Patient will draw scratch on image. 3. Doctor will click on undo icon. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | No scratch was draw on the image. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Patient has made an error. |

#### UC-3.10 Change marker color

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.10 |
| **Use Case Name:** | Change marker size |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to change the size of marker while scratching. |
| **Trigger:** | Mouse-click on the desired size. |
| **Preconditions:** | Patient should be in rehabilitation Activity. |
| **Postconditions:** | Marker color will be changed to the color selected. |
| **Normal Flow:** | 1. Doctor will start the activity. 2. Doctor will click on the desired size. 3. Marker size will change. 4. Patient will draw scratch with the new marker size. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | The doctor clicks on the size that is currently selected. |
| **Business Rules:** | NIL |
| **Assumptions:** | Doctor wants a different marker size. |

#### UC-3.11 Restart Activity

|  |  |
| --- | --- |
| **Use Case ID:** | UC-3.11 |
| **Use Case Name:** | Restart Activity |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to restart the activity. |
| **Trigger:** | Mouse-click on the restart icon. |
| **Preconditions:** | Appointment should be started already.  Patient should be in the Rehabilitation activity. |
| **Postconditions:** | Rehabilitation activity will be restarted  Scratches will be lost |
| **Normal Flow:** | 1. Doctor will start the activity 2. Patient will draw scratch. 3. Patient click restart Activity icon 4. Activity will be restarted 5. All scratches will be lost. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | Patient made too many mistakes, so doctor want to restart Activity. |

### Module 4: Report and Milestone Generator

#### UC-4.1 Generate milestone

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.1 |
| **Use Case Name:** | Generate milestone |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to generate milestone of a specific patient. |
| **Trigger:** | Mouse click on generate milestone button. |
| **Preconditions:** | Doctor should be on the dashboard. |
| **Postconditions:** | A milestone status will be displayed. |
| **Normal Flow:** | 1. Doctor will login 2. Doctor will click on Milestone button. 3. Doctor will select a patient from the dropdown. 4. Doctor will click on generate milestone button. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | **BR-1:**  System should provide this option for all registered patients. |
| **Assumptions:** | Doctor needs to see where his/her patient stands. |

#### UC-4.2 Reset Milestone

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.2 |
| **Use Case Name:** | Reset milestone |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to reset milestone status of a patient. |
| **Trigger:** | Mouse click on reset milestone button. |
| **Preconditions:** | Doctor should have generated milestone status of a patient. |
| **Postconditions:** | Milestone status will be reset. |
| **Normal Flow:** | 1. Doctor will open dashboard. 2. Doctor will click on Milestone button. 3. Doctor will select a patient from the dropdown. 4. Doctor will click on generate milestone button. 5. Doctor will click on reset button. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | The milestone status is already the default values. |
| **Business Rules:** | **BR-1:**  The system should set all data to their default values. |
| **Assumptions:** | Doctor needs to start rehabilitating a patient from the beginning. |

#### UC-4.3 Add observation note

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.3 |
| **Use Case Name:** | Add observation note |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to add a note regarding patient. |
| **Trigger:** | Mouse click on add note icon. |
| **Preconditions:** | Doctor should have generated milestone status of a patient. |
| **Postconditions:** | A note will be added. |
| **Normal Flow:** | 1. Doctor will login. 2. Doctor will click on Milestone button. 3. Doctor will select a patient from the dropdown. 4. Doctor will click on generate milestone button. 5. Milestone status will be displayed. 6. Doctor will click on add note icon. 7. A box will appear. 8. Doctor will enter some textual note. 9. Doctor will click on save. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | Clicking on the cancel button. |
| **Business Rules:** | **BR-1:**  The system should provide an option to cancel adding a note. |
| **Assumptions:** | Doctor needs to remember something about a patient next time while he views the milestone status. |

#### UC-4.4 Remove observation note

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.4 |
| **Use Case Name:** | Remove observation note |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to delete note of a patient. |
| **Trigger:** | Mouse click on delete note icon. |
| **Preconditions:** | Doctor should have generated milestone status of a patient. |
| **Postconditions:** | Specific note will be deleted. |
| **Normal Flow:** | 1. Doctor will login. 2. Doctor will click on Milestone button. 3. Doctor will select a patient from the dropdown. 4. Doctor will click on generate milestone button. 5. Milestone status will be displayed. 6. Doctor will click on notes icon. 7. A list of all notes will appear. 8. Doctor will click on delete icon. 9. Note will be deleted. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Doctor may no longer need a saved note. |

#### UC-4.5 Edit observation note

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.5 |
| **Use Case Name:** | Edit observation note |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to edit note of a patient. |
| **Trigger:** | Mouse click on edit note icon. |
| **Preconditions:** | Doctor should have generated milestone status of a patient. |
| **Postconditions:** | Specific note will be updated. |
| **Normal Flow:** | 1. Doctor will login. 2. Doctor will click on Milestone button. 3. Doctor will select a patient from the dropdown. 4. Doctor will click on generate milestone button. 5. Milestone status will be displayed. 6. Doctor will click on notes icon. 7. A list of all notes will appear. 8. Doctor will click on update icon. 9. Doctor will add updated note. 10. Doctor will click on save. |
| **Alternative Flows:** | If the doctor clicks on cancel, resume from step 7. |
| **Exceptions:** | Doctor clicks on cancel. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Doctor needs to update a saved note. |

#### UC-4.6 Generate comparison report

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.6 |
| **Use Case Name:** | Generate Comparison Report |
| **Actors:** | Primary Actors: Doctor |
| **Description:** | Doctor wants to generate report showing comparison of performance by current appointment patient with all other patients doing exercises. |
| **Trigger:** | Doctor click Generate Report |
| **Preconditions:** | Doctor must be logged in  Appointment must be already started |
| **Postconditions:** | Doctor will be able to visualize Graphical as well as statistical report |
| **Normal Flow:** | 1. Doctor click generate Report 2. Graphical, Statistical report tab will be generated |
| **Alternative Flows:** | NIL |
| **Exceptions:** | Connection with server loses |
| **Business Rules:** | There should be at least one round completed by patient of rehabilitation plan |
| **Assumptions:** | Patient completed at least 1 round of Rehabilitation plan |

#### UC-4.7 Reset comparison report

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.7 |
| **Use Case Name:** | Reset Comparison Report |
| **Actors:** | Primary Actors: Doctor |
| **Description:** | Doctor wants to refresh report showing comparison of performance by current appointment patient with all other patients doing exercises. |
| **Trigger:** | Doctor click Generate Report |
| **Preconditions:** | Doctor must be logged in  Appointment must be already started |
| **Postconditions:** | Doctor will be able to visualize Graphical as well as statistical report |
| **Normal Flow:** | 1. Doctor clicks generate Report 2. Graphical, Statistical report tab will be generated |
| **Alternative Flows:** | NIL |
| **Exceptions:** | Connection with server loses. |
| **Business Rules:** | There should be at least 1 round completed by patient of rehabilitation plan |
| **Assumptions:** | Patient completed at least 1 round of Rehabilitation plan |

#### UC-4.8 Search patient

|  |  |
| --- | --- |
| **Use Case ID:** | UC-4.8 |
| **Use Case Name:** | Search Patient |
| **Actors:** | Primary Actors: Doctor |
| **Description:** | Doctor wants to Search Patient for whom he wants to generate Report. Doctor will select either a current Patient if appointment us going on otherwise he will select through searching in list. |
| **Trigger:** | Doctor click Search Patient |
| **Preconditions:** | Doctor must be logged in |
| **Postconditions:** | Doctor will be able to select Patient whose comparison report needed to be generated. |
| **Normal Flow:** | 1. Doctor click Search Patient 2. Doctors enter Patient name 3. Patient record appears 4. Doctor click select patient 5. Patient is selected |
| **Alternative Flows:** | NIL |
| **Exceptions:** | Patient not found  Patient does not complete even a single round. |
| **Business Rules:** | There should be at least one round completed by patient of rehabilitation plan |
| **Assumptions:** | Patient completed at least 1 round of Rehabilitation plan.  Patient record exists. |

### Module 5: Patient and appointments Logging

#### UC-5.1 Accept request

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.1 |
| **Use Case Name:** | Accept request |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to accept request sent by guardian. |
| **Trigger:** | Mouse click on “Add” button. |
| **Preconditions:** | The patient should be neglect detected. |
| **Postconditions:** | A new patient will be added to the doctor’s patients list. |
| **Normal Flow:** | 1. The doctor will open dashboard. 2. The doctor will click on notifications icon. 3. Requests sent will open. 4. The doctor will click on “Add”. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | Doctor wants to add a patient. |

#### UC-5.2 Delete patient

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.2 |
| **Use Case Name:** | Delete patient |
| **Actors:** | Doctor, Guardian. |
| **Description:** | Doctor and guardian will be able to delete patients from his patients list. |
| **Trigger:** | Mouse click on delete icon. |
| **Preconditions:** | Patient record should be opened. |
| **Postconditions:** | Selected patient will be deleted. |
| **Normal Flow:** | 1. Actor will open dashboard. 2. Actor will click on patient manager button. 3. All patients will be displayed. 4. Actor will click on delete patient icon. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | There are no patients registered. |
| **Business Rules:** | **BR-1:**  All existing data associated with the deleted patient should also be deleted. |
| **Assumptions:** | Doctor is no longer seeing the patient. Guardian is no longer associated to the patient. |

#### UC-5.3 Post request

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.3 |
| **Use Case Name:** | Post Request |
| **Actors:** | Guardian. |
| **Description:** | Guardian will be able to send doctor requests. |
| **Trigger:** | Mouse click on send request. |
| **Preconditions:** | Doctor profile should be opened. |
| **Postconditions:** | Request notification will be sent to the doctor. |
| **Normal Flow:** | 1. Guardian will open dashboard. 2. Guardian will click on doctors. 3. List of doctors will be displayed. 4. Guardian will click on a doctor’s record. 5. Guardian will click on send request button. |
| **Alternative Flows:** | NIL |
| **Exceptions:** | The patient is not neglect detected. |
| **Business Rules:** | **BR-1:**  The patient should be neglect detected. |
| **Assumptions:** | NIL |

#### UC-5.4 Search patient

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.4 |
| **Use Case Name:** | Search Patient |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to search a specific patient. |
| **Trigger:** | Mouse click on Search button. |
| **Preconditions:** | Patient record should be opened. |
| **Postconditions:** | Patient will be found. |
| **Normal Flow:** | 1. Doctor will open dashboard. 2. Doctor will click on patient manager button. 3. All patients will be displayed. 4. Doctor will enter user’s name in the search bar. 5. User will be found. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | No user found. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Will provide faster filtering of patient records to the doctor. |

#### UC-5.5 Schedule appointment

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.5 |
| **Use Case Name:** | Schedule appointment |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to schedule appointment for a patient. |
| **Trigger:** | Mouse click on Schedule button. |
| **Preconditions:** | Patient record should be opened. |
| **Postconditions:** | A schedule will be set. |
| **Normal Flow:** | 1. Doctor will open dashboard. 2. Doctor will click on patient manager button. 3. All patients will be displayed, each record followed by a schedule appointment button. 4. Doctor will click on schedule appointment button. 5. Doctor will enter all the fields. 6. Doctor will click on Schedule button. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | There are no patients registered.  Invalid patient details entered. |
| **Business Rules:** | **BR-1:**  Appointment should not be scheduled unless details entered are correct.  **BR-2:**  If there is a clash of timings among appointments, that appointment should not be scheduled. An error message should be displayed. |
| **Assumptions:** | Doctor wants to have an appointment with the patient. |

#### UC-5.6 Delete appointment

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.6 |
| **Use Case Name:** | Delete appointment |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to delete scheduled appointments. |
| **Trigger:** | Mouse click on delete appointment icon. |
| **Preconditions:** | Scheduled appointments record should be opened. |
| **Postconditions:** | Specific scheduled appointment will be deleted. |
| **Normal Flow:** | 1. Doctor will open dashboard. 2. Doctor will click on patient manager button. 3. All scheduled appointments will be displayed. 4. Doctor will click on delete appointment icon. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | There are no scheduled appointments. |
| **Business Rules:** | **BR-1:**  All existing data associated with the deleted appointment should also be deleted. |
| **Assumptions:** | A scheduled appointment needs to be canceled. |

#### UC-5.7 Edit appointment

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.7 |
| **Use Case Name:** | Edit appointment |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to edit scheduled appointments. |
| **Trigger:** | Mouse click on edit appointment button. |
| **Preconditions:** | Scheduled appointments should be opened. |
| **Postconditions:** | Specific appointment will be updated. |
| **Normal Flow:** | 1. Doctor will open dashboard. 2. Doctor will click on patient manager button. 3. All appointments will be displayed. 4. Doctor will click on edit appointment button. 5. Doctor will re-enter the fields to update. 6. Doctor will click on Update button. |
| **Alternative Flows:** | If invalid appointment details are entered in step 5 of the normal flow:   1. Resume from step 5 of the normal flow. |
| **Exceptions:** | There are no appointments scheduled.  Invalid appointment details entered. |
| **Business Rules:** | **BR-1:**  Record should not be updated unless appointment details entered are valid. |
| **Assumptions:** | Appointment date and time has changed. |

#### UC-5.8 Start appointment

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.8 |
| **Use Case Name:** | Start appointment |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to start a scheduled appointment. |
| **Trigger:** | Mouse click on start appointment button. |
| **Preconditions:** | List of scheduled appointments should be opened. |
| **Postconditions:** | Specific appointment will be initiated. |
| **Normal Flow:** | 1. Doctor will open dashboard. 2. Doctor will click on patient manager button. 3. All appointments will be displayed. 4. Doctor will click on start appointment button. 5. An appointment session will be initiated. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | Appointment has expired. |
| **Business Rules:** | **BR-1:**  If time for an appointment has passed, it should be expired. Such records should be deleted by the doctor. |
| **Assumptions:** | Patient has come for rehabilitation. |

#### UC-5.9 End appointment

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.9 |
| **Use Case Name:** | End appointment |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to end a started appointment. |
| **Trigger:** | Mouse click on end appointment button. |
| **Preconditions:** | List of scheduled appointments should be opened. |
| **Postconditions:** | Specific appointment will be terminated. |
| **Normal Flow:** | 1. Doctor will open dashboard. 2. Doctor will click on patient manager button. 3. All appointments will be displayed. 4. Doctor will click on end appointment button. 5. An appointment session will be terminated. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | **BR-1:**  The appointment should automatically be ended after 40 minutes. |
| **Assumptions:** | A registered patient details are changed. |

#### UC-5.10 Add patient

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.10 |
| **Use Case Name:** | Add patient |
| **Actors:** | Guardian. |
| **Description:** | Guardian will be able to add patient. |
| **Trigger:** | Mouse click on “Add” button. |
| **Preconditions:** | The guardian should assess the patient through whiteboard detector. |
| **Postconditions:** | A new patient record will be created. |
| **Normal Flow:** | **Normal flow 1:**   1. The guardian will submit image for evaluation. 2. The guardian will be displayed results. 3. The guardian will click on Add patient. 4. The guardian will enter patient name, age, email, phone, Right/Left neglect. 5. The guardian will click on Add.   **Normal flow 2:**   1. The guardian will open dashboard. 2. The guardian will click on patient manager button. 3. The guardian will click on “Add New”. 4. The guardian will enter patient name, age, email, phone, Right/Left neglect. 5. The guardian will click on Add. |
| **Alternative Flows:** | If invalid patient details are entered in step 4 of the normal flow:   1. Resume from step 4 of the normal flow. |
| **Exceptions:** | Invalid patient details. |
| **Business Rules:** | **BR-1:**  The system will not allow guardian to add a patient after assessment if the drawing results show no neglect. |
| **Assumptions:** | Guardian wants to add a patient. |

#### UC-5.11 Edit patient

|  |  |
| --- | --- |
| **Use Case ID:** | UC-5.11 |
| **Use Case Name:** | Edit patient |
| **Actors:** | Guardian. |
| **Description:** | Guardian will be able to edit registered patients’ records. |
| **Trigger:** | Mouse click on edit patient button. |
| **Preconditions:** | Patient record should be opened. |
| **Postconditions:** | Selected patient will be updated. |
| **Normal Flow:** | 1. Guardian will open dashboard. 2. Guardian will click on patient manager button. 3. All patients will be displayed. 4. Guardian will click on edit patient button. 5. Guardian will update name/phone/age/email. 6. Guardian will click on Update button. |
| **Alternative Flows:** | If invalid patient details are entered in step 5 of the normal flow:   1. Resume from step 5 of the normal flow. |
| **Exceptions:** | There are no patients registered.  Invalid patient details entered. |
| **Business Rules:** | **BR-1:**  Record should not be updated unless patient details entered are correct. |
| **Assumptions:** | A registered patient details are changed. |

### Module 6: Reviews and Feedback

#### UC-6.1 Post Reviews

|  |  |
| --- | --- |
| **Use Case ID:** | UC-6.1 |
| **Use Case Name:** | Post Reviews |
| **Actors:** | Doctor, Admin, Guardian |
| **Description:** | Actor wants to post Reviews |
| **Trigger:** | Actor clicks Post Review |
| **Preconditions:** | Actor must be logged in |
| **Postconditions:** | Review will be added |
| **Normal Flow:** | 1. Actor click Post Review 2. Actor enters Subject 3. Actor writes description in Text box 4. Actor Click submit |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | Actor knows English language |

#### UC-6.2 Update reviews

|  |  |
| --- | --- |
| **Use Case ID:** | UC-6.2 |
| **Use Case Name:** | Update Review |
| **Actors:** | Doctor, Admin, Guardian |
| **Description:** | Actor wants to Update Review posted |
| **Trigger:** | Actor clicks edit Review Button |
| **Preconditions:** | Actor must be logged in |
| **Postconditions:** | Actor will be updated |
| **Normal Flow:** | 1. Actor click Review Manager 2. Actor click edit button of specific review 3. Actor update Review through entering text 4. Actor click update 5. Review will be updated |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | Actor knows English language.  Actor’s review was already posted. |

#### UC-6.3 Add FAQ

|  |  |
| --- | --- |
| **Use Case ID:** | UC-6.3 |
| **Use Case Name:** | Add FAQ |
| **Actors:** | Primary Actors: Admin |
| **Description:** | Admin wants to Post FAQ |
| **Trigger:** | Admin click FAQ button |
| **Preconditions:** | Admin must be logged in |
| **Postconditions:** | Admin will be able to post FAQ |
| **Normal Flow:** | 1. Admin click Add FAQ 2. Admin enters Title 3. Admins enter Question 4. Admins enter answers 5. Admin click Post |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | NIL |

#### UC-6.4 Update FAQ

|  |  |
| --- | --- |
| **Use Case ID:** | UC-6.4 |
| **Use Case Name:** | Update FAQ |
| **Actors:** | Primary Actors: Admin |
| **Description:** | Admin wants to Update FAQ |
| **Trigger:** | Admin click Update FAQ button |
| **Preconditions:** | Admin must be logged in |
| **Postconditions:** | Admin will be able to update FAQ |
| **Normal Flow:** | 1. Admin select FAQ 2. Admin enters Title 3. Admins enter Question 4. Admins enter answers 5. Admin click Update |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | NIL |

#### UC-6.5 Delete review

|  |  |
| --- | --- |
| **Use Case ID:** | UC-6.5 |
| **Use Case Name:** | Delete review |
| **Actors:** | Doctor, Admin, Guardian |
| **Description:** | User wants to delete reviews about Application |
| **Trigger:** | User click delete review |
| **Preconditions:** | User must be logged in |
| **Postconditions:** | Review will be deleted |
| **Normal Flow:** | 1. User click View reviews 2. Users view all reviews 3. Doctor click deleted review 4. Review will be deleted |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | NIL |

#### UC-6.6 Reply to Review

|  |  |
| --- | --- |
| **Use Case ID:** | UC-6.6 |
| **Use Case Name:** | Reply to Review |
| **Actors:** | Admin, Doctor, Guardian |
| **Description:** | User wants to reply to Review posted by doctor |
| **Trigger:** | User click Reply button |
| **Preconditions:** | User must be logged in  User must be on Review page  User writes reply to query |
| **Postconditions:** | User will be able to post reply of Review posted by doctor |
| **Normal Flow:** | 1. User click View Reviews 2. User view all Reviews posted by different Doctor 3. User click Review area of any specific review 4. Review details will be shown 5. User click Reply 6. User writes reply text 7. User click Post 8. Reply will be posted |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | NIL |

#### UC-6.7 Delete FAQs

|  |  |
| --- | --- |
| **Use Case ID:** | UC-6.7 |
| **Use Case Name:** | Delete FAQs |
| **Actors:** | Primary Actors: Admin |
| **Description:** | Admin wants to delete FAQ. |
| **Trigger:** | Admin click delete FAQ |
| **Preconditions:** | Admin must be logged in |
| **Postconditions:** | FAQ will be deleted |
| **Normal Flow:** | 1. Admin click View FAQ 2. Admin view all FAQ 3. Doctor click deleted FAQ 4. FAQ will be deleted |
| **Alternative Flows:** | NIL |
| **Exceptions:** | NIL |
| **Business Rules:** | NIL |
| **Assumptions:** | NIL |

### Module 7: Payments

#### UC-7.1 Make a payment

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.1 |
| **Use Case Name:** | Make a payment |
| **Actors:** | Doctor. |
| **Description:** | Doctor will be able to pay for additional features. |
| **Trigger:** | Mouse click on Checkout button. |
| **Preconditions:** | Doctor should have signed up and logged in. |
| **Postconditions:** | Doctor will have bought a plan. |
| **Normal Flow:** | 1. Doctor will open dashboard. 2. Doctor will click on Add additional features. 3. Doctor will select a plan. 4. Doctor will enter card details. 5. Doctor will checkout. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | Invalid card information. |
| **Business Rules:** | **BR-1:**  The rehabilitation exercises should become available after the doctor has paid for a plan. |
| **Assumptions:** | Doctor needs to rehabilitate patients. |

#### UC-7.2 Verify payments

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.2 |
| **Use Case Name:** | Verify payments |
| **Actors:** | Admin |
| **Description:** | Admin will be able to verify payments made by the doctor. |
| **Trigger:** | Mouse click on verify button. |
| **Preconditions:** | Admin should be in payments record. |
| **Postconditions:** | Doctor payment status will be updated. |
| **Normal Flow:** | 1. Admin will click on Payments tab. 2. Admin will view all payments made. 3. Admin will click on verify button. 4. Payment will be verified. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | **BR-1:**  A “No payments made” message should be displayed in case of no payment record found.  **BR-2:**  The doctor should see payment status as “verified” after the admin approved it.  **BR-3:**  The doctor should receive a mail after admin has verified his/her payment. |
| **Assumptions:** | Doctor should be informed about payment verification. |

#### UC-7.3 Update payment plan

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.3 |
| **Use Case Name:** | Update payment plan |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to update payment plan. |
| **Trigger:** | Mouse click on update plan button. |
| **Preconditions:** | Doctor should have selected a plan. |
| **Postconditions:** | Doctor’s payment plan will be updated. |
| **Normal Flow:** | 1. Doctor will click on Payments tab. 2. Doctor will click on update plan button. 3. Doctor will select a payment plan. 4. Doctor will click on update button. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Doctor may want to change plans. |

#### UC-7.4 Download invoice

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.4 |
| **Use Case Name:** | Download invoice |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to download invoice. |
| **Trigger:** | Mouse click on download icon. |
| **Preconditions:** | Doctor should have selected a plan. |
| **Postconditions:** | Doctor’s payment plan will be updated. |
| **Normal Flow:** | 1. Admin will click on Payments tab. 2. Doctor will click on update plan button. 3. Doctor will select a payment plan. 4. Doctor will click on update button. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Doctor may want to change plans. |

#### UC-7.5 Update credit card details

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.5 |
| **Use Case Name:** | Update credit card details |
| **Actors:** | Doctor |
| **Description:** | Doctor will be able to update payment details. |
| **Trigger:** | Mouse click on update button. |
| **Preconditions:** | Doctor should have logged in. |
| **Postconditions:** | Doctor credit card details will be updated. |
| **Normal Flow:** | 1. Admin will click on Payments tab. 2. Doctor will click on update credit card details. 3. Doctor will enter in the fields. 4. Doctor will click on update button. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Doctor can have multiple credit cards. |

#### UC-7.6 Add payment plan

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.6 |
| **Use Case Name:** | Add payment plan |
| **Actors:** | Admin |
| **Description:** | Admin will be able to add payment plan. |
| **Trigger:** | Mouse click on add plan button. |
| **Preconditions:** | Admin should have logged in. |
| **Postconditions:** | A new payment plan will be added. |
| **Normal Flow:** | 1. Admin will click on Payments tab. 2. Admin will click on add payment plan button. 3. Admin will enter plan name, price, duration. 4. Admin will click on add. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | Incorrect input fields. |
| **Business Rules:** | **BR-1:**  The plan should have a unique name. |
| **Assumptions:** | Admin may have to add a new payment plan. |

#### UC-7.7 Update payment plan

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.7 |
| **Use Case Name:** | Update payment plan |
| **Actors:** | Admin |
| **Description:** | Admin will be able to Update payment plan. |
| **Trigger:** | Mouse click on update plan button. |
| **Preconditions:** | Admin should have logged in. |
| **Postconditions:** | A payment plan will be updated. |
| **Normal Flow:** | 1. Admin will click on Payments tab. 2. A list of all plans will be displayed. 3. Admin will click on update payment plan button. 4. Admin will enter updated plan name, price, duration. 5. Admin will click on update button. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | Incorrect input fields. |
| **Business Rules:** | **BR-1:**  The plan should have a unique name. |
| **Assumptions:** | Admin may have to update an existing payment plan. |

#### UC-7.8 Delete payment plan

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.8 |
| **Use Case Name:** | Delete payment plan |
| **Actors:** | Admin |
| **Description:** | Admin will be able to delete payment plan. |
| **Trigger:** | Mouse click on delete plan button. |
| **Preconditions:** | Admin should have logged in. |
| **Postconditions:** | A payment plan will be deleted. |
| **Normal Flow:** | 1. Admin will click on Payments tab. 2. A list of all plans will be displayed. 3. Admin will click on delete payment plan button. 4. Payment plan will be deleted. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | Incorrect input fields. |
| **Business Rules:** | **BR-1:**  The plan should have a unique name. |
| **Assumptions:** | Admin may have to remove a new payment plan. |

#### UC-7.9 Add terms and conditions

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.9 |
| **Use Case Name:** | Add terms and conditions |
| **Actors:** | Admin |
| **Description:** | Admin will be able to add terms and conditions |
| **Trigger:** | Mouse click on add terms and conditions button. |
| **Preconditions:** | Admin should have logged in. |
| **Postconditions:** | A new terms and conditions will be added. |
| **Normal Flow:** | 1. Admin will click on Policies tab. 2. Admin will click on add policy button. 3. Admin will enter text. 4. Admin will click on add. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | **BR-1:**  System should allow only one plan at a time. |
| **Assumptions:** | Admin may have to add new terms and conditions. |

#### UC-7.10 Update terms and conditions

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.10 |
| **Use Case Name:** | Update terms and conditions |
| **Actors:** | Admin |
| **Description:** | Admin will be able to Update terms and conditions. |
| **Trigger:** | Mouse click on update terms and conditions button. |
| **Preconditions:** | Admin should have logged in. |
| **Postconditions:** | Terms and conditions will be updated. |
| **Normal Flow:** | 1. Admin will click on Policies tab. 2. Admin will click on update policy button. 3. Admin will edit the terms and conditions text. 4. Admin will click on update button. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | NIL. |
| **Assumptions:** | Admin may have to update existing terms and conditions |

#### UC-7.11 Delete terms and conditions

|  |  |
| --- | --- |
| **Use Case ID:** | UC-7.11 |
| **Use Case Name:** | Delete terms and conditions |
| **Actors:** | Admin |
| **Description:** | Admin will be able to delete terms and conditions |
| **Trigger:** | Mouse click on delete terms and conditions button. |
| **Preconditions:** | Admin should have logged in. |
| **Postconditions:** | Terms and conditions will be deleted. |
| **Normal Flow:** | 1. Admin will click on Policies tab. 2. Admin will click on delete terms and conditions button. 3. Terms and conditions will be deleted. |
| **Alternative Flows:** | NIL. |
| **Exceptions:** | NIL. |
| **Business Rules:** | NIL. |
| **Assumptions:** | The terms may not be applicable anymore. |

# Functional Requirements

## Functional Requirements

### Module 1: Accounts Manager

#### FR-1.1.1 Enter Email

|  |  |
| --- | --- |
| **Identifier** | FR-1.1.1 |
| **Title** | Enter Email |
| **Requirement** | The user will be able to enter the email so user can get login to system |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Without Email user cannot login |
| **Business Rule (if required)** | User email must be an active |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.1.2 Enter Password

|  |  |
| --- | --- |
| **Identifier** | FR-1.1.2 |
| **Title** | Enter Password |
| **Requirement** | User will be able to enter the account password, so user gets login to system |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Without entering Password user cannot login |
| **Business Rule (if required)** | Password length should be at least 5.  User must enter correct password for login. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.1.3 Sign in button

|  |  |
| --- | --- |
| **Identifier** | FR-1.1.3 |
| **Title** | Sign in button |
| **Requirement** | The User will be able to click sign in button to login into the system. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Without login User cannot use System services |
| **Business Rule (if required)** | User must enter correct credentials |
| **Dependencies** | FR-1.1.1, FR-1.1.2 |
| **Priority** | High. |

#### FR-1.2.1 Enter name

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.1 |
| **Title** | Enter Name |
| **Requirement** | The Doctor, Guardian will be able to enter the name to register |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Without entering name Doctor, Guardian cannot signup |
| **Business Rule (if required)** | Doctor email must be an active |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.2.2 Email

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.2 |
| **Title** | Email |
| **Requirement** | The doctor, Guardian will be able to enter the email to register |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Without entering email User cannot create Account |
| **Business Rule (if required)** | doctor email must be an active |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.2.3 Phone number

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.3 |
| **Title** | Phone number |
| **Requirement** | Doctor, Guardian will be able to enter the phone number to register |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Without entering Phone number user cannot register |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.2.4 Select Gender

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.4 |
| **Title** | Select Gender |
| **Requirement** | Doctor, Guardian will be able to select the gender to register |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Without selecting gender User cannot register |
| **Business Rule (if required)** | Users need to select gender from given options only. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.2.5 Enter age

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.5 |
| **Title** | Enter age |
| **Requirement** | Doctor, Guardian will be able to enter age to register |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Without selecting age, User cannot register |
| **Business Rule (if required)** | User age should be at least 22. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.2.6 Enter password

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.6 |
| **Title** | Enter Password |
| **Requirement** | Doctor, Guardian will be able to enter password to register |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Without entering password, User cannot register, and Password keeps account secure |
| **Business Rule (if required)** | Password must be at least of length 5. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.2.7 Confirm password

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.7 |
| **Title** | Confirm Password |
| **Requirement** | Doctor, Guardian will be able to enter same password as in previous password field so that password match |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Confirming the password makes User to clearly understand that he entered password correctly. |
| **Business Rule (if required)** | Confirm password must match password entered in Password field |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.2.8 Send code button

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.8 |
| **Title** | Send Code button |
| **Requirement** | Doctor, Guardian will be able to click send code button so system will send verification code as email |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Verification codes verify the identity of user so doctor can register |
| **Business Rule (if required)** | Code must be of 4 digits. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.2.9 Enter verification code

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.9 |
| **Title** | Enter Verification code |
| **Requirement** | Doctor, Guardian must enter same verification code as he received in email to confirm identity |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Entering correct Verification code verify the identity of user so doctor can register |
| **Business Rule (if required)** | Code must be of 4 digits.  Code must be same as code received in email |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.2.10 Click Sign up button

|  |  |
| --- | --- |
| **Identifier** | FR-1.2.10 |
| **Title** | Click Sign up button |
| **Requirement** | Doctor, Guardian will be able to click the sign-up button after entering credentials so account will be registered |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Clicking the signup button verify credentials enter so user account will be created. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-1.2.1, FR-1.2.2, FR-1.2.3, FR-1.2.4, FR-1.2.5, FR-1.2.6, FR-1.2.7, FR-1.2.8, FR-1.2.9 |
| **Priority** | High. |

#### FR-1.3.1 Click logout button

|  |  |
| --- | --- |
| **Identifier** | FR-1.3.1 |
| **Title** | Click Logout button |
| **Requirement** | Doctor, Guardian, Admin will be able to click the logout button to get logout from account |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Clicking the logout button ends the session and account is logged off. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-1.1.3 |
| **Priority** | High. |

#### FR-1.4.1 Click Forget Password button

|  |  |
| --- | --- |
| **Identifier** | FR-1.4.1 |
| **Title** | Click Forget Password button |
| **Requirement** | Doctor, Guardian, Admin will be able to click forget password button to reset password |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Users need to click the forget button to reset password through entering some credentials when he forgets password. |
| **Business Rule (if required)** | Password must be at least of length 5. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.4.1 Enter Email

|  |  |
| --- | --- |
| **Identifier** | FR-1.4.2 |
| **Title** | Enter Email |
| **Requirement** | The user will be able to enter the email to receive code there |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | System will send the verification code in email |
| **Business Rule (if required)** | User email must be an active |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.4.3 Click send code button

|  |  |
| --- | --- |
| **Identifier** | FR-1.4.3 |
| **Title** | Click send Code button |
| **Requirement** | User will be able to click send code button to reset password |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | User needs to click send code button to receive code in email |
| **Business Rule (if required)** | Password must be at least of length 5. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.4.4 Enter Verification code

|  |  |
| --- | --- |
| **Identifier** | FR-1.4.4 |
| **Title** | Enter Verification code |
| **Requirement** | User will be able to enter verification code to reset password |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | User needs to enter verification code to confirm identity |
| **Business Rule (if required)** | Verification code should be four digits number and should be same as received in email |
| **Dependencies** | FR-1.4.2 |
| **Priority** | High. |

#### FR-1.4.5 Enter new password

|  |  |
| --- | --- |
| **Identifier** | FR-1.4.5 |
| **Title** | Enter new Password |
| **Requirement** | User will be able to enter new password to reset password |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Users need to enter new password to set it as updated password for login |
| **Business Rule (if required)** | Password must be at least of length 5. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.4.6 Confirm Password

|  |  |
| --- | --- |
| **Identifier** | FR-1.4.6 |
| **Title** | Confirm Password |
| **Requirement** | User will be able to enter same password as in previous password field so that password match |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Confirming the password makes doctor to clearly understand that he entered password correctly. |
| **Business Rule (if required)** | Confirm password must match password entered in Password field |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.4.7 Click update password

|  |  |
| --- | --- |
| **Identifier** | FR-1.4.7 |
| **Title** | Click Update Password |
| **Requirement** | User will be able to click Update password to verify credentials for password |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Clicking the update password allow verification of credentials entered and then updates password for login. |
| **Business Rule (if required)** | Users need to remember password |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.5.1 Click change password

|  |  |
| --- | --- |
| **Identifier** | FR-1.5.1 |
| **Title** | Click change Password |
| **Requirement** | User will be able to click change password button so password will be updated |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Clicking the change password provide user an interface to put credentials for password update. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 1.1.3 |
| **Priority** | High |

#### FR-1.5.2 Enter current password

|  |  |
| --- | --- |
| **Identifier** | FR-1.5.2 |
| **Title** | Enter current password |
| **Requirement** | User will be able to enter current password to verify identity |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Users need to enter current password to verify identity |
| **Business Rule (if required)** | Password must be at least of length 5. |
| **Dependencies** | 1.1.3 |
| **Priority** | High. |

#### FR-1.5.3 Enter new password

|  |  |
| --- | --- |
| **Identifier** | FR-1.5.3 |
| **Title** | Enter new Password |
| **Requirement** | User will be able to enter new password to reset password |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Users need to enter new password to set it as updated password for login |
| **Business Rule (if required)** | Password must be at least of length 5. |
| **Dependencies** | 1.1.3 |
| **Priority** | High. |

#### FR-1.5.4 Confirm password

|  |  |
| --- | --- |
| **Identifier** | FR-1.5.4 |
| **Title** | Confirm Password |
| **Requirement** | User will be able to enter same password as in previous password field so that password match |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Confirming the password makes doctor to clearly understand that he entered password correctly. |
| **Business Rule (if required)** | Confirm password must match password entered in Password field |
| **Dependencies** | 1.1.3 |
| **Priority** | High. |

#### FR-1.5.5 Click update password

|  |  |
| --- | --- |
| **Identifier** | FR-1.5.5 |
| **Title** | Click update Password |
| **Requirement** | User will be able to enter click change so password will be updated |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Clicking the change password provide user an interface to put credentials for password update. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High |

#### FR-1.6.1 View profile

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.1 |
| **Title** | View Profile |
| **Requirement** | The user will be able to view all Profile details. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | The user may want to decide or observe the details needed to be changed |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Low. |

#### FR-1.6.2 Edit name

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.2 |
| **Title** | Edit name |
| **Requirement** | The user will be able to edit username. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | user needs to edit a username. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium |

#### FR-1.6.3 Edit email

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.3 |
| **Title** | Edit email |
| **Requirement** | The user will be able to edit patient’s email. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | User needs to edit an email. |
| **Business Rule (if required)** | New email should be an active email |
| **Dependencies** | NIL. |
| **Priority** | High |

#### UC-1.6.4 Edit phone number

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.4 |
| **Title** | Edit phone number |
| **Requirement** | The user will be able to edit phone number. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | User needs to update phone number for future contacts and verifications |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High |

#### FR-1.6.5 Edit age

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.5 |
| **Title** | Edit age |
| **Requirement** | The user will be able to edit age. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | User needs to edit age. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-1.6.6 Edit gender

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.6 |
| **Title** | Edit Gender |
| **Requirement** | The user will be able to edit gender. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | User needs to edit an age. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High |

#### FR-1.6.7 Edit profile picture

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.7 |
| **Title** | Edit Profile picture |
| **Requirement** | The user will be able to edit profile picture |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Users want to upload a better profile picture. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Low |

#### FR-1.6.8 Click update profile

|  |  |
| --- | --- |
| **Identifier** | FR-1.6.8 |
| **Title** | Click update Profile |
| **Requirement** | User will be able to click Update profile so profile details will be updated |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Clicking the update profile button updates profile details |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 1.6.1, 1.6.2, 1.6.3, 1.6.4, 1.6.5, 1.6.6, 1.6.7 |
| **Priority** | Low |

#### FR-1.7.1 Click upload image

|  |  |
| --- | --- |
| **Identifier** | FR-1.7.1 |
| **Title** | Click upload Image |
| **Requirement** | Admin will be able to click Upload image to add image to training data set |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to add new training image in data sets due to its high accuracy in testing. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 1.6.1, 1.6.2, 1.6.3, 1.6.4, 1.6.5, 1.6.6 |
| **Priority** | High |

#### FR-1.7.2 Select image

|  |  |
| --- | --- |
| **Identifier** | FR-1.7.2 |
| **Title** | Select Image |
| **Requirement** | Admin will be able to select image to add image to training data set |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to select training image for uploading in data sets due to its high accuracy in testing. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 1.7.1 |
| **Priority** | High |

#### FR-1.8.1 Click block user

|  |  |
| --- | --- |
| **Identifier** | FR-1.8.1 |
| **Title** | Click block user |
| **Requirement** | The admin will be able to click block user to block doctor from using services. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to block doctor due to violation of policies or fraud in payment. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-1.8.2 Click unblock

|  |  |
| --- | --- |
| **Identifier** | FR-1.8.2 |
| **Title** | Click Unblock |
| **Requirement** | The admin will be able to click Unblock user to allow doctor using services again. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to unblock doctor after discussion with doctor about violation of policy. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | 1.8.1 |
| **Priority** | High. |

#### FR-1.9.1 View doctor details

|  |  |
| --- | --- |
| **Identifier** | FR-1.9.1 |
| **Title** | View doctor details |
| **Requirement** | The admin will be able to View all doctor details |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | User wants to view all doctor records. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Low |

#### FR-1.9.2 Enter doctor name

|  |  |
| --- | --- |
| **Identifier** | FR-1.9.2 |
| **Title** | Enter doctor name |
| **Requirement** | The admin will be able to enter name of doctor to view his record and record will be displayed on screen |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to view specific doctor record |
| **Business Rule (if required)** | Admin must enter only text |
| **Dependencies** | NIL. |
| **Priority** | Low |

#### FR-1.10.1 View announcements

|  |  |
| --- | --- |
| **Identifier** | FR-1.10.1 |
| **Title** | View Announcements |
| **Requirement** | The admin will be able to View all announcements made in History |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to view all announcements to keep track of history. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High |

#### FR-1.10.2 Click Add Record

|  |  |
| --- | --- |
| **Identifier** | FR-1.10.2 |
| **Title** | Click Add Record |
| **Requirement** | The admin will be able to click add record button to provide details about Announcement to be post |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to Post an important announcement related to Policy updates etc. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.10.3 Enter Subject

|  |  |
| --- | --- |
| **Identifier** | FR-1.10.3 |
| **Title** | Enter Subject |
| **Requirement** | The admin will be able to enter subject about announcement to be added |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to define a meaningful subject for announcement to be post |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL. |
| **Priority** | Low |

#### FR-1.10.4 Enter description

|  |  |
| --- | --- |
| **Identifier** | FR-1.10.4 |
| **Title** | Enter Description |
| **Requirement** | The admin will be able to enter details about announcement to be added |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to enter details about announcement to give clear message to Doctors about Policy statements etc. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL. |
| **Priority** | Low |

#### FR-1.10.5 Click Post Announcement

|  |  |
| --- | --- |
| **Identifier** | FR-1.10.5 |
| **Title** | Click Post Announcement |
| **Requirement** | The admin will be able to click Post button to post new Announcement |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Clicking post button will post announcement subject and description |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | 1.10.1, 1.10.2, 1.10.3, 1.10.4 |
| **Priority** | High. |

#### FR-1.11.1 View announcement details

|  |  |
| --- | --- |
| **Identifier** | FR-1.11.1 |
| **Title** | View Announcements details |
| **Requirement** | The admin will be able to View all announcements to select announcement to be updated |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to view all announcements to keep track of history. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High |

#### FR-1.11.2 Click Announcement details area

|  |  |
| --- | --- |
| **Identifier** | FR-1.11.2 |
| **Title** | Click Announcement details area |
| **Requirement** | The admin will be able to click the desired announcement details area to update fields |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to update announcement details related to Policy updates etc. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.11.3 Edit subject

|  |  |
| --- | --- |
| **Identifier** | FR-1.11.3 |
| **Title** | Edit Subject |
| **Requirement** | The admin will be able to edit subject about announcement to be updated |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to define a new or more precise subject for announcement to be updated |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL. |
| **Priority** | Low |

#### FR-1.11.4 Edit description

|  |  |
| --- | --- |
| **Identifier** | FR-1.11.4 |
| **Title** | Edit Description |
| **Requirement** | The admin will be able to edit details about announcement to be added |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to edit details about announcement to announce more precise and clear statement. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL. |
| **Priority** | Low |

#### FR-1.11.5 Click update announcement

|  |  |
| --- | --- |
| **Identifier** | FR-1.11.5 |
| **Title** | Click Update Announcement |
| **Requirement** | The admin will be able to click Update button to update Announcement |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Clicking update button will update announcement subject and description |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | 1.11.1, 1.11.2, 1.11.3, 1.11.4 |
| **Priority** | High. |

#### FR-1.12.1 Enter subjects

|  |  |
| --- | --- |
| **Identifier** | FR-1.12.1 |
| **Title** | Enter subject |
| **Requirement** | The admin will be able to View announcement needed to be deleted |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to search specific announcement to be deleted. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High |

#### FR-1.12.2 Click delete announcement

|  |  |
| --- | --- |
| **Identifier** | FR-1.12.2 |
| **Title** | Click delete Announcement |
| **Requirement** | The admin will be able to click the delete announcement button for required announcement to be deleted |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to deleted announcement details. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-1.12.3 Click confirm deletion

|  |  |
| --- | --- |
| **Identifier** | FR-1.12.3 |
| **Title** | Click confirm deletion |
| **Requirement** | The admin will be able to click the confirm deletion button for required announcement to be deleted when warning will be displayed. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to respond to warning options displayed. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | 1.12.1, 1.12.2 |
| **Priority** | High. |

### Module 2: Neglect detector with whiteboard

#### FR-2.1.1 Detector button

|  |  |
| --- | --- |
| **Identifier** | FR-2.1.1 |
| **Title** | Detector button |
| **Requirement** | The guardian will be able to start the neglect detector. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Detector should open for the patient. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-2.2.1 Draw image activity

|  |  |
| --- | --- |
| **Identifier** | FR-2.2.1 |
| **Title** | Draw image activity |
| **Requirement** | The patient will be able to draw on the whiteboard. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Right/Left neglect detection. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-2.1.1 |
| **Priority** | High. |

#### FR-2.2.2 Pause activity icon

|  |  |
| --- | --- |
| **Identifier** | FR-2.2.2 |
| **Title** | Pause activity icon |
| **Requirement** | The guardian will be able to pause detection. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The patient can pause drawing. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-2.1.1 |
| **Priority** | Medium. |

#### FR-2.2.3 Resume activity icon

|  |  |
| --- | --- |
| **Identifier** | FR-2.2.3 |
| **Title** | Resume activity icon |
| **Requirement** | The guardian will be able to resume detection. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The patient can resume paused activity. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-2.1.1 |
| **Priority** | Medium. |

#### FR-2.2.4 Cancel activity icon

|  |  |
| --- | --- |
| **Identifier** | FR-2.2.4 |
| **Title** | Cancel activity icon |
| **Requirement** | The guardian will be able to cancel detection. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The patient can cancel started activity. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-2.1.1 |
| **Priority** | Medium. |

#### FR-2.2.5 Clear Whiteboard icon

|  |  |
| --- | --- |
| **Identifier** | FR-2.2.5 |
| **Title** | Clear whiteboard icon |
| **Requirement** | The guardian will be able to clear the whiteboard. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The patient can start over. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-2.2.1 |
| **Priority** | High. |

#### FR-2.2.6 Undo icon

|  |  |
| --- | --- |
| **Identifier** | FR-2.2.6 |
| **Title** | Undo icon |
| **Requirement** | The guardian will be able to undo patient’s mistake during drawing. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The patient can make a mistake. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-2.2.1 |
| **Priority** | High. |

#### FR-2.2.7 Change marker color buttons

|  |  |
| --- | --- |
| **Identifier** | FR-2.2.7 |
| **Title** | Change marker color buttons. |
| **Requirement** | The guardian will be able to change the marker color. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The patient can draw with different colors. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-2.2.1 |
| **Priority** | High. |

#### FR-2.2.8 Change marker size buttons

|  |  |
| --- | --- |
| **Identifier** | FR-2.2.8 |
| **Title** | Change marker size buttons. |
| **Requirement** | The guardian will be able to change the marker size. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The patient can draw with different sized markers. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-2.2.1 |
| **Priority** | High. |

#### FR-2.3.1 View Detector results

|  |  |
| --- | --- |
| **Identifier** | FR-2.3.1 |
| **Title** | View detector results |
| **Requirement** | The guardian will view if the patient has left or right or no neglect through drawing results. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The guardian needs to assess the patient. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-2.1.1 |
| **Priority** | High. |

### Module 3: Neglect Rehabilitator

#### FR-3.1.1 View original image

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.1 |
| **Title** | View original Image |
| **Requirement** | The patient will be able to view original image containing circles and |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Patient wants to draw scratches on circle to make them lose identity |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-3.1.2 Draw scratch activity

|  |  |
| --- | --- |
| **Identifier** | FR-3.1.2 |
| **Title** | Draw scratch activity |
| **Requirement** | The patient will be able to draw scratch on the circles object in an image. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Patient wants to draw scratches on circle to make them lose identity |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | 3.2.1 |
| **Priority** | High. |

#### FR-3.2.1 Click start activity button

|  |  |
| --- | --- |
| **Identifier** | FR-3.2.1 |
| **Title** | click start activity button |
| **Requirement** | The doctor will be able to click start activity button to start Timer |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to start activity for Patient Rehabilitation |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-3.3.1 Click finish activity button

|  |  |
| --- | --- |
| **Identifier** | FR-3.3.1 |
| **Title** | click finish activity button |
| **Requirement** | The doctor will be able to click finish activity button to send edited image for evaluation |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to finish activity for evaluation |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | 3.2.1 |
| **Priority** | High. |

#### FR-3.3.2 View evaluation report

|  |  |
| --- | --- |
| **Identifier** | FR-3.3.2 |
| **Title** | View evaluation report |
| **Requirement** | The doctor will be able to view evaluation report about activity performed by patient |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to finish activity for evaluation |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 3.3.1 |
| **Priority** | High. |

#### FR-3.4.1 Click clear all button

|  |  |
| --- | --- |
| **Identifier** | FR-3.4.1 |
| **Title** | click clear All button |
| **Requirement** | The doctor will be able to click all button to clear scratches draw in Image |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to clear All scratches as patient did violations of activity rules |
| **Business Rule (if required)** | There should be at least one scratch in the Image |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-3.5.1 Click color icon

|  |  |
| --- | --- |
| **Identifier** | FR-3.5.1 |
| **Title** | click color icon |
| **Requirement** | The doctor will be able to click color icon to select color or marker |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to change color of marker for drawing scratches |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 3.2.1 |
| **Priority** | High. |

#### FR-3.6.1 Click pause icon

|  |  |
| --- | --- |
| **Identifier** | FR-3.6.1 |
| **Title** | click Pause Icon |
| **Requirement** | The doctor will be able to click Pause icon to pause Activity timer and make image noneditable. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to pause activity when patient will be unable to follow guidelines or not ready to perform activity |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 3.2.1 |
| **Priority** | High. |

#### FR-3.7.1 Click resume icon

|  |  |
| --- | --- |
| **Identifier** | FR-3.7.1 |
| **Title** | click Resume Icon |
| **Requirement** | The doctor will be able to click Resume icon to resume Activity timer and make image editable. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to resume activity when patient is again ready to perform activity from where activity was left |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 3.6.1 |
| **Priority** | High. |

#### FR-3.8.1 Click cancel icon

|  |  |
| --- | --- |
| **Identifier** | FR-3.8.1 |
| **Title** | click cancel Icon |
| **Requirement** | The doctor will be able to click cancel icon to cancel activity. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to cancel activity when patient wants to quit activity or needs much time to understand guidelines. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 3.6.1 |
| **Priority** | High. |

#### FR-3.9.1 Click undo icon

|  |  |
| --- | --- |
| **Identifier** | FR-3.9.1 |
| **Title** | click undo Icon |
| **Requirement** | The doctor will be able to click undo icon to remove most recent scratch. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to remove most recent scratch in image as that touches other shapes as well. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 3.6.1 |
| **Priority** | High. |

#### FR-3.10.1 Drag marker size bar

|  |  |
| --- | --- |
| **Identifier** | FR-3.10.1 |
| **Title** | Drag Marker size bar |
| **Requirement** | The doctor will be able to drag marker size bar to change marker size |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to increase marker size for scratches to cover more area. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | Medium |

#### FR-3.11.1 Click restart icon

|  |  |
| --- | --- |
| **Identifier** | FR-3.11.1 |
| **Title** | Click Restart Icon |
| **Requirement** | The doctor will be able to click restart icon to restart activity |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to restart activity as patient made too many mistakes and wasted too much time. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

### Module 4: Report and Milestone Generator

#### FR-4.1.1 Select patient

|  |  |
| --- | --- |
| **Identifier** | FR-4.1.1 |
| **Title** | Select patient |
| **Requirement** | The doctor and guardian will be able to select a patient. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor and guardian should generate milestone for a specific patient. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Low. |

#### FR-4.1.2 Generate milestone button

|  |  |
| --- | --- |
| **Identifier** | FR-4.1.2 |
| **Title** | Generate milestone button |
| **Requirement** | The doctor will be able to generate a milestone. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor should ably generate a milestone for the selected patient. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-4.1.1 |
| **Priority** | Low. |

#### FR-4.2.1 View next target

|  |  |
| --- | --- |
| **Identifier** | FR-4.2.1 |
| **Title** | View next target. |
| **Requirement** | The doctor and guardian will be able to view next target for a patient. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor and guardian should be able to see what next target the patient should achieve. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-4.1.2 |
| **Priority** | Low. |

#### FR-4.2.2 View maximum target reached

|  |  |
| --- | --- |
| **Identifier** | FR-4.2.2 |
| **Title** | View Maximum target reached. |
| **Requirement** | The doctor and guardian will be able to view maximum target reached of a patient. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor and guardian should be able to see the maximum target reached by the patient. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-4.1.2 |
| **Priority** | Low. |

#### FR-4.2.3 Viewpoints

|  |  |
| --- | --- |
| **Identifier** | FR-4.2.3 |
| **Title** | View patient’s current points. |
| **Requirement** | The doctor and guardian will be able to view patient’s current points. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor and guardian should be able to see the points of a patient. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-4.1.2 |
| **Priority** | Low. |

#### FR-4.3.1 Reset points

|  |  |
| --- | --- |
| **Identifier** | FR-4.3.1 |
| **Title** | Reset patient’s current points. |
| **Requirement** | The doctor will be able to reset patient’s current points. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor may want to reset points of a patient to start the rehabilitation from scratch. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-4.1.2 |
| **Priority** | Low. |

#### FR-4.3.2 Reset maximum target reached

|  |  |
| --- | --- |
| **Identifier** | FR-4.3.2 |
| **Title** | Reset patient’s maximum target reached. |
| **Requirement** | The doctor will be able to reset patient’s maximum target. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor may want to reset points of a patient to start the rehabilitation from scratch. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-4.1.2 |
| **Priority** | Low. |

#### FR-4.3.3 Reset next target

|  |  |
| --- | --- |
| **Identifier** | FR-4.3.3 |
| **Title** | Reset patient’s current points. |
| **Requirement** | The doctor will be able to reset patient’s next target |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor may want to reset points of a patient to start the rehabilitation from scratch. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-4.1.2 |
| **Priority** | Low. |

#### FR-4.3.4 Reset milestone button

|  |  |
| --- | --- |
| **Identifier** | FR-4.3.4 |
| **Title** | Reset milestone button. |
| **Requirement** | The doctor will be able to reset patient’s milestone status. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor may want to reset milestone status of a patient. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-4.3.1, FR-4.3.2, FR-4.3.3 |
| **Priority** | Low. |

#### FR-4.4.1 Type note

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.1 |
| **Title** | Type note |
| **Requirement** | The doctor will be able to type a textual note. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor may want to recall something in the next appointment through a note. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Low. |

#### FR-4.4.2 Save note button

|  |  |
| --- | --- |
| **Identifier** | FR-4.4.2 |
| **Title** | Save note button |
| **Requirement** | The doctor will be able to save a note. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor may want to remember something in the next appointment. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-4.4.1 |
| **Priority** | Low. |

#### FR-4.5.1 View notes data

|  |  |
| --- | --- |
| **Identifier** | FR-4.5.1 |
| **Title** | View notes data |
| **Requirement** | The doctor, Guardian will be able to read all saved notes. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor may want to remember something in the next appointment.  Guardian may want to check the progress of rehabilitation plan for patient. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Low. |

#### FR-4.6.1 Delete note icon

|  |  |
| --- | --- |
| **Identifier** | FR-4.6.1 |
| **Title** | Delete note icon |
| **Requirement** | The doctor will be able to delete a specific note. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor may want to remove a note. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Low. |

#### FR-4.7.1 Edit note text

|  |  |
| --- | --- |
| **Identifier** | FR-4.7.1 |
| **Title** | Edit note text |
| **Requirement** | The doctor will be able to edit a specific note. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The doctor may want to update a note. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Low. |
| **Identifier** | FR-4.6.1 |
| **Title** | View patient List |
| **Requirement** | The doctor will be able to view patient list to decide about report generation |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to select patient after viewing patient detail for report generation. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-4.6.2 Click current patient tab

|  |  |
| --- | --- |
| **Identifier** | FR-4.6.2 |
| **Title** | Click current patient tab |
| **Requirement** | The doctor will be able to click current patient tab to select current patient as |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to select current Patient whose appointment going on as target Patient for comparison report |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-4.6.2 Search patient

|  |  |
| --- | --- |
| **Identifier** | FR-4.6.3 |
| **Title** | Search Patient |
| **Requirement** | The doctor will be able to search Patient by name to select as target patient |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to select Patient as target Patient for comparison report |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-4.6.4 Search patient

|  |  |
| --- | --- |
| **Identifier** | FR-4.6.4 |
| **Title** | Search Patient |
| **Requirement** | The doctor will be able to search Patient by name to select as target patient |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to select Patient as target Patient for comparison report |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-4.6.5 Click select patient

|  |  |
| --- | --- |
| **Identifier** | FR-4.6.5 |
| **Title** | Click Select patient |
| **Requirement** | The doctor will be able to click select Patient to set patient as target patient |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to select Patient as target Patient for comparison report |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-4.6.6 Click generate report

|  |  |
| --- | --- |
| **Identifier** | FR-4.6.6 |
| **Title** | Click generate report |
| **Requirement** | The doctor will be able to click generate report to Generate both graphical and statistical report. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to generate both statistical and Graphical report for patient performance comparison |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-4.6.5, FR-4.6.2 |
| **Priority** | High. |

#### FR-4.6.7 Click view graphical report button

|  |  |
| --- | --- |
| **Identifier** | FR-4.6.7 |
| **Title** | Click View Graphical report button |
| **Requirement** | The doctor, Guardian will be able to click view graphical report button to visualize Graphical Comparison report. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to Visualize Graphical Performance report to observe trends and make decision for final rehabilitation plans.  Guardian wants to see where rehabilitation plan for patient is reached. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-4.6.5, FR-4.6.2, FR-4.6.6 |
| **Priority** | High. |

#### FR-4.6.8 Click view statistical report button

|  |  |
| --- | --- |
| **Identifier** | FR-4.6.8 |
| **Title** | Click View Statistical report button |
| **Requirement** | The doctor will be able to click view statistical report button to visualize statistics-based Comparison report  The Guardian will be able to click view statistical report button to visualize statistics-based Comparison report |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to Visualize statistical Performance report to observe trends and make decision for final rehabilitation plans.  Guardian wants to see report of patient performance |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-4.6.5, FR-4.6.2, FR-4.6.6 |
| **Priority** | High. |

#### FR-4.7.1 Click generate report

|  |  |
| --- | --- |
| **Identifier** | FR-4.7.1 |
| **Title** | Click regenerate report |
| **Requirement** | The doctor will be able to click regenerate report to refresh both graphical and statistical report. |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to generate both updated statistical and Graphical report for patient performance comparison based upon updated data. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-4.6.5, FR-4.6.2 |
| **Priority** | High. |

#### FR-4.8.1 Enter patient name

|  |  |
| --- | --- |
| **Identifier** | FR-4.8.1 |
| **Title** | Enter patient name |
| **Requirement** | The doctor will be able to enter patient name to be selected |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to enter patient name to select patient as target |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-4.8.2 Click select patient button

|  |  |
| --- | --- |
| **Identifier** | FR-4.8.2 |
| **Title** | Click select Patient button |
| **Requirement** | The doctor will be able to click select Patient button to select patient as target patient |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to select Patient as target Patient for comparison report |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-4.8.1 |
| **Priority** | High. |

### Module 5: Patient and appointments Logging

#### FR-5.1.1 Enter name

|  |  |
| --- | --- |
| **Identifier** | FR-5.1.1 |
| **Title** | Enter name |
| **Requirement** | The guardian will be able to enter name of the patient. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Patient record should have a name. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.1.2 Enter email

|  |  |
| --- | --- |
| **Identifier** | FR-5.1.2 |
| **Title** | Enter email |
| **Requirement** | The guardian will be able to enter email of the patient. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Patient record should have the patient’s contact info. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.1.3 Enter age for Add patient

|  |  |
| --- | --- |
| **Identifier** | FR-5.1.3 |
| **Title** | Enter age |
| **Requirement** | The guardian will be able to enter age of the patient. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Patient record should have the patient’s age. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.1.4 Enter neglect

|  |  |
| --- | --- |
| **Identifier** | FR-5.1.4 |
| **Title** | Enter neglect |
| **Requirement** | The guardian will be able to enter neglect status of a patient. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Patient’s record should show which neglect does the patient have? (Left or right) |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.1.5 Enter phone

|  |  |
| --- | --- |
| **Identifier** | FR-5.1.5 |
| **Title** | Enter phone |
| **Requirement** | The guardian will be able to enter contact number of the patient. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Patient record should have the patient’s contact information. |
| **Business Rule (if required)** | **BR-1:**  Phone number should be 11 digits long. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.1.6 Add patient button

|  |  |
| --- | --- |
| **Identifier** | FR-5.1.6 |
| **Title** | Add patient button |
| **Requirement** | The guardian will be able to click on Add patient button. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Guardian will be able to add a patient’s record. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-5.1.1, FR-5.1.2, FR-5.1.3, FR-5.1.4 |
| **Priority** | High. |

#### FR-5.2.1 Edit patient name

|  |  |
| --- | --- |
| **Identifier** | FR-5.2.1 |
| **Title** | Edit name |
| **Requirement** | The guardian will be able to edit patient’s name. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Guardian needs to edit a patient’s name. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.2.2 Edit patient email

|  |  |
| --- | --- |
| **Identifier** | FR-5.2.2 |
| **Title** | Edit email |
| **Requirement** | The guardian will be able to edit patient’s email. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Guardian needs to edit a patient’s email. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High |

#### FR-5.2.3 Edit patient age

|  |  |
| --- | --- |
| **Identifier** | FR-5.2.3 |
| **Title** | Edit age |
| **Requirement** | The guardian will be able to edit patient’s age. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Guardian needs to edit a patient’s age. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.2.5 Edit patient phone

|  |  |
| --- | --- |
| **Identifier** | FR-5.2.5 |
| **Title** | Edit patient phone |
| **Requirement** | The guardian will be able to edit patient’s phone number. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Guardian needs to edit a patient’s phone number. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.2.6 Update patient button

|  |  |
| --- | --- |
| **Identifier** | FR-5.2.6 |
| **Title** | Update patient button |
| **Requirement** | The guardian will be able to update patient’s record. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Guardian needs to edit a patient’s record. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-5.2.1, FR-5.2.2, FR-5.2.3, FR-5.2.4, FR-5.2.5 |
| **Priority** | High. |

#### FR-5.3.1 View patient’s name

|  |  |
| --- | --- |
| **Identifier** | FR-5.3.1 |
| **Title** | View patient’s name |
| **Requirement** | The doctor, guardian will be able to view patient’s name. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor, guardian needs to view a patient’s name. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.3.2 View patient’s age

|  |  |
| --- | --- |
| **Identifier** | FR-5.3.2 |
| **Title** | View patient’s age |
| **Requirement** | The doctor, guardian will be able to view patient’s age. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor and guardian needs to view a patient’s age. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.3.3 View patient’s email

|  |  |
| --- | --- |
| **Identifier** | FR-5.3.3 |
| **Title** | View patient’s email |
| **Requirement** | The doctor, guardian will be able to view patient’s email. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor, guardian needs to view a patient’s email. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.3.4 View patient’s neglect side

|  |  |
| --- | --- |
| **Identifier** | FR-5.3.4 |
| **Title** | View patient’s neglect side |
| **Requirement** | The doctor, guardian will be able to view patient’s neglect side. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor, guardian needs to view a patient’s name. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.3.5 View patient’s phone

|  |  |
| --- | --- |
| **Identifier** | FR-5.3.5 |
| **Title** | View patient’s phone number |
| **Requirement** | The doctor, guardian will be able to view patient’s phone number. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor, guardian needs to view a patient’s phone number. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.4.1 Enter name for search

|  |  |
| --- | --- |
| **Identifier** | FR-5.4.1 |
| **Title** | Enter name for searching |
| **Requirement** | The doctor will be able to search a patient from name. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs to search a patient’s record. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.4.2 Search button

|  |  |
| --- | --- |
| **Identifier** | FR-5.4.2 |
| **Title** | Search button |
| **Requirement** | The doctor will be able to search a patient from name. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs to search a patient’s record based on the name entered. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-5.4.1 |
| **Priority** | High. |

#### FR-5.5.1 Delete patient icon

|  |  |
| --- | --- |
| **Identifier** | FR-5.5.1 |
| **Title** | Delete patient icon |
| **Requirement** | The doctor will be able to delete a patient from his list. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor may not be helping a patient anymore. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.6.1 Enter Date for scheduling appointment

|  |  |
| --- | --- |
| **Identifier** | FR-5.6.1 |
| **Title** | Enter date |
| **Requirement** | The doctor will be able to enter the date for an appointment. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor will be able to schedule an appointment on the desired day. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.6.2 Enter Time for scheduling appointment

|  |  |
| --- | --- |
| **Identifier** | FR-5.6.2 |
| **Title** | Enter Time. |
| **Requirement** | The doctor will be able to enter time for an appointment. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor will be able to schedule an appointment on the desired time. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.6.3 Schedule button for scheduling appointment

|  |  |
| --- | --- |
| **Identifier** | FR-5.6.3 |
| **Title** | Schedule button. |
| **Requirement** | The doctor will be able to click on schedule button. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor will be able to schedule an appointment on the desired time. |
| **Business Rule (if required)** | **BR-1:**  If there is a clash of timings among appointments, the button should be disabled. |
| **Dependencies** | FR-5.6.1, FR-5.6.2 |
| **Priority** | High. |

#### FR-5.7.1 Start appointment button

|  |  |
| --- | --- |
| **Identifier** | FR-5.7.1 |
| **Title** | Start appointment button. |
| **Requirement** | The doctor will be able to click on start appointment button. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor will be able to start an appointment on set time. |
| **Business Rule (if required)** | **BR-1:**  If there is a clash of timings among appointments, the button should be disabled. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.7.2 End appointment button

|  |  |
| --- | --- |
| **Identifier** | FR-5.7.2 |
| **Title** | End appointment button. |
| **Requirement** | The doctor will be able to click on end appointment button. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor will be able to end an appointment on before the default appointment time is completed. |
| **Business Rule (if required)** | **BR-1:**  Button should be disabled when appointment is not yet started. |
| **Dependencies** | FR-5.7.1 |
| **Priority** | High. |

#### FR-5.8.1 View appointment time

|  |  |
| --- | --- |
| **Identifier** | FR-5.8.1 |
| **Title** | View appointment time |
| **Requirement** | The doctor will be able to view appointment time. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs to see the scheduled appointment time. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.8.2 View appointment date

|  |  |
| --- | --- |
| **Identifier** | FR-5.8.2 |
| **Title** | View appointment date |
| **Requirement** | The doctor will be able to view appointment date. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs to see the scheduled appointment date. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.8.3 View appointment patient

|  |  |
| --- | --- |
| **Identifier** | FR-5.8.3 |
| **Title** | View appointment patient |
| **Requirement** | The doctor will be able to view appointment patient. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs to see the scheduled appointment patient. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.9.1 Delete appointment icon

|  |  |
| --- | --- |
| **Identifier** | FR-5.9.1 |
| **Title** | Delete appointment icon |
| **Requirement** | The doctor will be able to delete a scheduled appointment. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs to delete a canceled appointment. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.10.1 Edit appointment date

|  |  |
| --- | --- |
| **Identifier** | FR-5.10.1 |
| **Title** | Edit appointment date |
| **Requirement** | The doctor will be able to edit an appointment’s date. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Appointment date can be changed. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.10.2 Edit appointment time

|  |  |
| --- | --- |
| **Identifier** | FR-5.10.2 |
| **Title** | Edit appointment time |
| **Requirement** | The doctor will be able to edit an appointment’s time. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Appointment time can be changed. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-5.10.3 Update appointment button

|  |  |
| --- | --- |
| **Identifier** | FR-5.10.3 |
| **Title** | Update appointment button |
| **Requirement** | The doctor will be able to update an appointment record. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Appointment details can change. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-5.10.1, FR-5.10.2 |
| **Priority** | High. |

### Module 6: Reviews and Feedback

#### FR-6.1.1 Enter Subject

|  |  |
| --- | --- |
| **Identifier** | FR-6.1.1 |
| **Title** | Enter subject |
| **Requirement** | The doctor will be able to enter subject for review |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to enter subject for review to be posted to give it meaningful name |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.1.2 Enter Description

|  |  |
| --- | --- |
| **Identifier** | FR-6.1.2 |
| **Title** | Enter description |
| **Requirement** | The doctor will be able to enter description details for review |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to give details about query for better understanding of admin |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.1.3 Click Post button

|  |  |
| --- | --- |
| **Identifier** | FR-6.1.3 |
| **Title** | Click Post button |
| **Requirement** | The doctor will be able to click Post button to add review |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to add review after entering necessary fields |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-6.1.1, FR-6.1.2 |
| **Priority** | High. |

#### FR-6.2.1 Edit subject

|  |  |
| --- | --- |
| **Identifier** | FR-6.2.1 |
| **Title** | Edit subject |
| **Requirement** | The doctor will be able to enter subject for review |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to edit subject for review to give it more meaningful and self-explanatory subject. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.2.2 Edit description

|  |  |
| --- | --- |
| **Identifier** | FR-6.2.2 |
| **Title** | Edit description |
| **Requirement** | The doctor will be able to edit description details for review |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to edit details about query for better understanding of admin |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.2.3 Click update review button

|  |  |
| --- | --- |
| **Identifier** | FR-6.2.3 |
| **Title** | Click Update Review button |
| **Requirement** | The doctor will be able to click update review button to update review |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to update review after editing necessary fields |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-6.2.1, FR-6.2.2 |
| **Priority** | High. |

#### FR-6.3.1 Enter FAQ subject

|  |  |
| --- | --- |
| **Identifier** | FR-6.3.1 |
| **Title** | Enter FAQ subject |
| **Requirement** | The admin will be able to enter subject for FAQ |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to enter subject for FAQ to be posted to give it meaningful name |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.3.2 Enter Question

|  |  |
| --- | --- |
| **Identifier** | FR-6.3.2 |
| **Title** | Enter Question |
| **Requirement** | The admin will be able to post Question for FAQ |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to enter Question for FAQ that is meaningful and explanatory |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.3.3 Enter Answer

|  |  |
| --- | --- |
| **Identifier** | FR-6.3.3 |
| **Title** | Enter Answer |
| **Requirement** | The admin will be able to post Answer for Question |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to enter Answer to Question posted |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 6.3.2 |
| **Priority** | High. |

#### FR-6.3.4 Click Post button

|  |  |
| --- | --- |
| **Identifier** | FR-6.3.4 |
| **Title** | Click Post button |
| **Requirement** | The admin will be able to click Post button to add FAQ |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to click Post button to add FAQ after entering necessary fields |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-6.3.1, FR-6.3.2, FR-6.3.3 |
| **Priority** | High. |

#### FR-6.4.1 Enter Subject

|  |  |
| --- | --- |
| **Identifier** | FR-6.4.1 |
| **Title** | Edit subject |
| **Requirement** | The admin will be able to edit subject for FAQ |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to edit subject for FAQ to give it more meaningful and self-explanatory subject. |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.4.2 Edit Question

|  |  |
| --- | --- |
| **Identifier** | FR-6.4.2 |
| **Title** | Edit Question |
| **Requirement** | The admin will be able to edit Question details for FAQ |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to edit details about Answers for better understanding of doctors |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.4.3 Edit Answer

|  |  |
| --- | --- |
| **Identifier** | FR-6.4.3 |
| **Title** | Edit Answer |
| **Requirement** | The admin will be able to edit Answer for Question |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to edit Answer to Question posted for more meaningful answers for doctor |
| **Business Rule (if required)** | NIL |
| **Dependencies** | 6.4.2 |
| **Priority** | High. |

#### FR-6.4.4 Click update FAQ button

|  |  |
| --- | --- |
| **Identifier** | FR-6.4.4 |
| **Title** | Click Update FAQ button |
| **Requirement** | The admin will be able to click update FAQ button to update FAQ |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to update FAQ after editing necessary fields |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-6.4.1, FR-6.4.2, FR-6.4.3 |
| **Priority** | High. |

#### FR-6.5.1 Click review button

|  |  |
| --- | --- |
| **Identifier** | FR-6.5.1 |
| **Title** | Click delete review button |
| **Requirement** | The user will be able to click delete review button to delete review |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | User wants to delete review |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.5.2 Click confirm deletion button

|  |  |
| --- | --- |
| **Identifier** | FR-6.5.2 |
| **Title** | Click confirm deletion button |
| **Requirement** | The user will be able to respond to Warning message with clicking confirm button |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to delete review so on warning message click confirm deletion |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.6.1 Enter reply subject

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.1 |
| **Title** | Enter reply subject |
| **Requirement** | The admin will be able to enter reply subject for review |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to enter subject for replying to Doctor review |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.6.2 Enter reply

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.2 |
| **Title** | Enter reply |
| **Requirement** | The admin will be able to enter detail reply for review |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to reply query with details for better understanding of doctor |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.6.3 Click post button

|  |  |
| --- | --- |
| **Identifier** | FR-6.6.3 |
| **Title** | Click Post button |
| **Requirement** | The admin will be able to click Post button to add reply to doctor review |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Doctor wants to add review after entering necessary fields |
| **Business Rule (if required)** | NIL |
| **Dependencies** | FR-6.6.1, FR-6.6.2 |
| **Priority** | High. |

#### FR-6.7.1 Click delete FAQ button

|  |  |
| --- | --- |
| **Identifier** | FR-6.7.1 |
| **Title** | Click delete FAQ button |
| **Requirement** | The admin will be able to click delete FAQ button to delete FAQ |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to delete FAQ |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

#### FR-6.7.2 Click confirm deletion button

|  |  |
| --- | --- |
| **Identifier** | FR-6.7.2 |
| **Title** | Click confirm deletion button |
| **Requirement** | The admin will be able to respond to Warning message with clicking confirm button |
| **Source** | Team Member 1 (Danish Ali) |
| **Rationale** | Admin wants to delete FAQ so on warning message click confirm deletion |
| **Business Rule (if required)** | NIL |
| **Dependencies** | NIL |
| **Priority** | High. |

### Module 7: Payments

#### FR-7.1.1 Enter card number

|  |  |
| --- | --- |
| **Identifier** | FR-7.1.1 |
| **Title** | Enter card number |
| **Requirement** | The doctor will be able to enter card number. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs to provide card number to make a successful payment. |
| **Business Rule (if required)** | **BR-1:**  Card number should be 15 digits long. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-7.1.2 Enter expiry date

|  |  |
| --- | --- |
| **Identifier** | FR-7.1.2 |
| **Title** | Enter expiry date |
| **Requirement** | The doctor will be able to enter card’s expiry date. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs to provide valid card expiry date to make a successful payment. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-7.1.3 Enter CVV

|  |  |
| --- | --- |
| **Identifier** | FR-7.1.3 |
| **Title** | Enter CVV. |
| **Requirement** | The doctor will be able to enter CVV. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs to provide CVV to make a successful payment. |
| **Business Rule (if required)** | **BR-1:**  CVV should be 3 digits long. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.1.4 Agree to terms and conditions

|  |  |
| --- | --- |
| **Identifier** | FR-7.1.4 |
| **Title** | Agree to T&Cs checkbox. |
| **Requirement** | The doctor will be able to check agree to T&Cs. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor should agree to our terms of purchase. |
| **Business Rule (if required)** | **BR-1:** |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.1.5 Checkout button

|  |  |
| --- | --- |
| **Identifier** | FR-7.1.5 |
| **Title** | Checkout button |
| **Requirement** | The doctor will be able to checkout. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs to checkout to make a payment. |
| **Business Rule (if required)** | **BR-1:**  All fields should have valid values. |
| **Dependencies** | FR-8.1.1, FR-8.1.2, FR-8.1.3, FR-8.1.4 |
| **Priority** | Medium. |

#### FR-7.2.1 View payment status of a payment

|  |  |
| --- | --- |
| **Identifier** | FR-7.2.1 |
| **Title** | View payment status. |
| **Requirement** | The doctor and admin will be able to view if payment was verified or not. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Will allow doctor and admin to track payment. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.2.2 View payment plan of a payment

|  |  |
| --- | --- |
| **Identifier** | FR-7.2.2 |
| **Title** | View payment plan. |
| **Requirement** | The doctor and admin will be able to view payment’s plan. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Will allow doctor and admin to track payments. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.2.3 View payment date of a payment

|  |  |
| --- | --- |
| **Identifier** | FR-7.2.3 |
| **Title** | View payment date |
| **Requirement** | The doctor and admin will be able to view the date the payment was made. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Will allow doctor and admin to track payments. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.3.1 Verify payments button

|  |  |
| --- | --- |
| **Identifier** | FR-7.3.1 |
| **Title** | Verify payments button |
| **Requirement** | The doctor will be able to verify payments made by the doctor. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Will allow admin to verify a doctor’s payment. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.4.1 View payment plan price

|  |  |
| --- | --- |
| **Identifier** | FR-7.4.1 |
| **Title** | View payments plan price |
| **Requirement** | The doctor and admin will be able to view a plan’s price. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Will allow doctor and admin to view plans’ price. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.4.2 View payment plan name

|  |  |
| --- | --- |
| **Identifier** | FR-7.4.2 |
| **Title** | View payments plan name |
| **Requirement** | The doctor and admin will be able to view a plan’s name. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Will allow doctor to view plans’ name. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.4.3 View payment plan duration

|  |  |
| --- | --- |
| **Identifier** | FR-7.4.3 |
| **Title** | View payments plan duration. |
| **Requirement** | The doctor and admin will be able to view a payment plan’s duration. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Will allow doctor and admin to view plans’ duration. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.4.4 Select payment plan button

|  |  |
| --- | --- |
| **Identifier** | FR-7.4.4 |
| **Title** | Select payment plan button. |
| **Requirement** | The doctor will be able to select a payment plan. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Will allow doctor to select a plan. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-8.4.1, FR-8.4.2, FR-8.4.3 |
| **Priority** | Medium. |

#### FR-7.5.1 Add terms and conditions button

|  |  |
| --- | --- |
| **Identifier** | FR-7.5.1 |
| **Title** | Add terms and conditions |
| **Requirement** | The admin will be able to add terms and conditions. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Terms and conditions need to be added. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.5.2 View terms and conditions

|  |  |
| --- | --- |
| **Identifier** | FR-7.5.2 |
| **Title** | View terms and conditions. |
| **Requirement** | The doctor will be able to view terms and conditions. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor and admin need to view with terms and conditions. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.5.3 Update terms and conditions button

|  |  |
| --- | --- |
| **Identifier** | FR-7.5.3 |
| **Title** | Update terms and conditions |
| **Requirement** | The admin will be able to update terms and conditions. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Terms and conditions may change. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.5.4 Delete terms and conditions button

|  |  |
| --- | --- |
| **Identifier** | FR-7.5.4 |
| **Title** | Delete terms and conditions |
| **Requirement** | The admin will be able to delete terms and conditions. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Terms and conditions may have to be deleted. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.6.1 Download invoice button

|  |  |
| --- | --- |
| **Identifier** | FR-7.6.1 |
| **Title** | Download invoice button. |
| **Requirement** | The doctor will be able to download invoice. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor needs payment invoice. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.7.1 Update card number

|  |  |
| --- | --- |
| **Identifier** | FR-7.7.1 |
| **Title** | Update card number |
| **Requirement** | The doctor will be able to update card number. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor can have multiple credit cards. |
| **Business Rule (if required)** | **BR-1:**  Card number should be 15 digits long. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-7.7.2 Update expiry date

|  |  |
| --- | --- |
| **Identifier** | FR-7.7.2 |
| **Title** | Update expiry date |
| **Requirement** | The doctor will be able to update card’s expiry date. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor can have multiple credit cards. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | High. |

#### FR-7.7.3 Update CVV

|  |  |
| --- | --- |
| **Identifier** | FR-7.7.3 |
| **Title** | Update CVV. |
| **Requirement** | The doctor will be able to update CVV. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor can have multiple credit cards. |
| **Business Rule (if required)** | **BR-1:**  CVV should be 3 digits long. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.7.4 Update details button

|  |  |
| --- | --- |
| **Identifier** | FR-7.7.4 |
| **Title** | Update details button |
| **Requirement** | The doctor will be able to update credit card details. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | Doctor can have multiple credit cards. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | FR-8.7.1, FR-8.7.2, FR-8.7.3 |
| **Priority** | Medium. |

#### FR-7.8.1 Add plan name

|  |  |
| --- | --- |
| **Identifier** | FR-7.8.1 |
| **Title** | Add plan name |
| **Requirement** | The admin will be able to add plan name. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The admin may have a new payment plan. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.8.2 Add plan price

|  |  |
| --- | --- |
| **Identifier** | FR-7.8.2 |
| **Title** | Add plan name |
| **Requirement** | The admin will be able to add plan price. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The admin may have a new payment price. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.8.3 Add plan duration

|  |  |
| --- | --- |
| **Identifier** | FR-7.8.3 |
| **Title** | Add plan name |
| **Requirement** | The admin will be able to add plan name. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The admin may have a new payment plan. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.8.4 Add plan button

|  |  |
| --- | --- |
| **Identifier** | FR-7.8.4 |
| **Title** | Add plan button |
| **Requirement** | The admin will be able to add plan. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | The admin may have a new payment plan. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.9.1 Update plan name

|  |  |
| --- | --- |
| **Identifier** | FR-7.9.1 |
| **Title** | Update plan name |
| **Requirement** | The admin will be able to update plan name. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | A payment plan may change. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.9.2 Add plan price

|  |  |
| --- | --- |
| **Identifier** | FR-7.9.2 |
| **Title** | Update plan name |
| **Requirement** | The admin will be able to update plan price. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | A payment plan may change. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.9.3 update plan duration

|  |  |
| --- | --- |
| **Identifier** | FR-7.9.3 |
| **Title** | Update plan name |
| **Requirement** | The admin will be able to update plan name. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | A payment plan may change. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.9.4 Update plan button

|  |  |
| --- | --- |
| **Identifier** | FR-7.9.4 |
| **Title** | Update plan button |
| **Requirement** | The admin will be able to update plan. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | A payment plan may change. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

#### FR-7.10.1 Delete plan button

|  |  |
| --- | --- |
| **Identifier** | FR-7.10.1 |
| **Title** | Delete plan button |
| **Requirement** | The admin will be able to delete plan. |
| **Source** | Team Member 2 (Malaika Atiq) |
| **Rationale** | A payment plan may have to be removed. |
| **Business Rule (if required)** | NIL. |
| **Dependencies** | NIL. |
| **Priority** | Medium. |

# Non-Functional Requirements

## Reliability

**REL-1:** If an error occurs in network connection, webpage should load in 3 seconds after restart of an application and connection is established.

**REL-2:** MTBF for a year shall be at least 11 months.

**REL-3:** MTTR shall be 3 hours.

## Usability

**USE-1:** The system should autofill fields required in payment form that are common in Account details for better user experience.

**USE-2:** The system shall allow Doctor to view previous appointment details in single interaction.

**USE-3:** The system shall show appointment timer on every page when appointment starts so Doctor will be aware of time passed.

**USE-4:** The system shall allow login authentication through google account so User login experience will be good, and process will be faster.

**USE-5:** The system shall provide all necessary components like Detector, Rehabilitator, Payment on Dashboard so it will be easy for doctor to navigate to each Page easily on single interaction.

**USE-6:** Visual clues on exercise page should be available for better understanding of patient about what to do.

**USE-7:** The system shall provide error details on page for better understanding of error in accounts related task and Payment.

**USE-8:** The system shall be available 24/7 except in case of maintenance, error on server side.

**USE-9:** Report generator graphs should have lines marked with different colors for better understanding of doctor.

## Performance

**PER-1:** Result of detection shall appear on screen within 5 seconds from the time user requested for detection over an internet speed of 4 Mbps.

**PER-2:** Capture image of whiteboard shall download within 3 seconds from the time user clicked download button over an internet speed of 2 Mbps.

**PER-3:** Image for Training shall upload within 6 seconds from the time user selected image and click upload over an internet speed of 2 Mbps.

**PER-4:** Upon successful Login, User dashboard page shall be loaded within 3 seconds over an internet speed of 2 Mbps.

**PER-5:** Evaluation report for Rehabilitation exercise should be loaded on screen with 4 seconds from the time user submitted picture for submission over an internet speed of 2 MPs.

## Security

* The security alert shall be mailed to user within 20 seconds of time when an anonymous attacker is trying to login to account by fulling wrong password more than 1 times.
* The system shall email an update message to user within 5 seconds when updates are made to User credentials or account Information.
* The system shall confirm to user that the personal information entered will not be share with nay organization etc.
* The system shall do transactions including sensitive data using secure sockets only.
* The system shall logout user after a specified period of inactivity.
* System shall remove all cookies on customer device containing sensitive information of any user.
* System backend servers shall be accessible only for Authenticated administrators and not for anyone else.
* System shall confirm all transactions in the boundary of customer web browser and not outside.

# External Interface Requirements

## User Interfaces Requirements

Four the interfaces Material community icons will be used. Labes with fields will be mentioned to give a clear idea to user. Error, Success and Warning messages will be displayed open corresponding actions to notify user about what’s going on. Layout shall be simple and clear and not messy. Keeping in view the Google Disability Alliance guidelines Interfaces will be designed to help disable users for better experience and usability. Use of icons will give clear message for action.

Bootstrap-5 Buttons will be used for better appearance. Some of interface designs are as follows

Graphical user interface, application

Description automatically generated

**Interface for Admin Panel Account Manager**

Chart, scatter chart

Description automatically generated

**Interface for Neglect detector with whiteboard**

Graphical user interface, website

Description automatically generated

**Interface for Report Generator**

Graphical user interface, text, application, email

Description automatically generated

**Interface for Exercise Report**

Graphical user interface, application

Description automatically generated

**Interface for Patient Panel**

## Communications interfaces

* Gmail will be used for data and identity verification
* Mongo dB will be backend database from where data will be fetched, Post using http methods.
* For intranet communication only TCP-IP protocols should be used
* For communication over internet HTTP protocol should be used

# References

* Network for Spatial Neglect Community:

<https://kesslerfoundation.org/researchcenter/stroke/nsnapplication#:~:text=The%20Network%20for%20Spatial%20Neglect,various%20types%20of%20spatial%20neglect>.

* Network for Spatial Neglect Community:

<https://kesslerfoundation.org/researchcenter/stroke/nsnapplication#:~:text=The%20Network%20for%20Spatial%20Neglect,various%20types%20of%20spatial%20neglect>.

* Visual Attention Therapy Lite:

<https://play.google.com/store/apps/details?id=com.tactustherapy.vat.lite&hl=en&gl=US>

* Neglect Treatment: <https://tactustherapy.com/visual-scanning-treatment/>
* Spatial Neglect and aspects: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6262901/>
* AI, NodeJS: <https://developer.ibm.com/technologies/artificial-intelligence/tutorials/an-introduction-to-ai-in-nodejs/>