



A
PROJECT REPORT
ON
DESIGN AND DEVELOPMENT FOR
"HEALTH PORTAL"

BY-
SAJIB BISWAS
ID: 171-35-1960
Department of Software Engineering
Faculty of Science and Information Technology
DAFFODIL INTERNATIONAL UNIVERSITY

Supervised By-
MS. FARZANA SADIA
Lecturer (Senior Scale)
Department of Software Engineering
Faculty of Science and Information Technology
DAFFODIL INTERNATIONAL UNIVERSITY

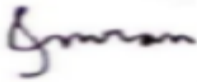
This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Software Engineering

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Approval

This Project titled “Health Portal”, submitted by SAJIB BISWAS, ID: 171-35- 1960 to the Department of Software Engineering , DAFFODIL INTERNATIONAL UNIVERSITY has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Software Engineering and approved as to its style and contents.

BOARD OF EXAMINERS



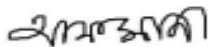
Chairman

Dr. Imran Mahmud
Associate Professor and Head
Department of Software Engineering
Faculty of Science and Information Technology
Daffodil International University



Internal Examiner 1

Dr. Md. Mostafijur Rahman
Associate Professor
Department of Software Engineering
Faculty of Science and Information Technology
Daffodil International University



Internal Examiner 2

Afsana Begum
Lecturer (Senior)
Department of Software Engineering
Faculty of Science and Information Technology
Daffodil International University



External Examiner

Professor Dr. Mohammed Nasir Uddin
Professor and Chairman
Department of Computer Science and Engineering
Jagannath University

Declaration

I hereby declare that, this project has been done by us under the supervision of **MS. FARZANA SADIA**, Lecturer (Senior Scale), Department of SWE, DAFFODIL INTERNATIONAL UNIVERSITY. I also declare that this project is my original work for the degree of B.Sc. in Software Engineering and that neither this project nor any part of this project has been submitted elsewhere for award of any other degree or diploma.

Submitted by:

Sajib Biswas

SAJIB BISWAS
ID: 171-35-1960
Department of Software Engineering
Faculty of Science and Information Technology
DAFFODIL INTERNATIONAL UNIVERSITY

Supervised by:

MS. FARZANA SADIA

MS. FARZANA SADIA
Lecturer (Senior Scale)
Department of Software Engineering
Faculty of Science and Information Technology
DAFFODIL INTERNATIONAL UNIVERSITY

Acknowledgement

“Success is to be measured not such a lot by the position that one has reached in life, however as by the obstacle that he has had to beat whereas making an attempt to succeed.” In many ways it's, tougher to acknowledge one's however I specific my deep sense of feeling to every and each one whose support and co-operation helped me to complete this project with success, and while not this the completion of this project would ever are easier. I herewith take the pleasure of thanking my project adviser. I even have really benefited loads from the constructive critics and suggestions given by MS. FARZANA SADIA. I additionally would like to impart my parents continuously stand by me in my all choices and while not their support it had been out of the question on behalf of me to achieve at this position.

Abstract

In this globalization time world is in our pocket. Internet, mobile, personal computer is available for everyone. As an emerging form of enabling technology, Web-Application “Health Portals” provide users easier access to their healthcare information and services. We know mental health is as important as physical health. In this system we prioritize mental health as much as physical health. This system creates a friendly environment where anyone with any health related issue can seek help from professionals.

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CHAPTER 1:INTRODUCTION

1.1 Project Overview:

Health Portal is a web application system. Professional/Specialist (Physician, Therapist, Psychologist etc...) and General people (Basic User) can use this application. Here basic user can view and contact with their desire specialist to seek help for their any health related issue. They can also share their experience and help other's with user friendly chat rooms. They can message and make appointment to specialist, view latest health related news and also self assessment themselves to monitor thy health. They can also use emergency option to get quick help. Basic user and Professional will be able to maintain their profile, appointments, calendar events etc...

1.2 Project Purpose

To prioritize both mental and physical health, here user can get help, advise, counseling from specialist to maintain their and physical health. It will help to grow awareness about health. Professional can put up their necessary document for their symbol of merit and their validity. User's review and rating will help others to get the best and easiest solution for their problem. Anonymous online chat room will help many to share their problems, experience with each other that will helps many to get a grip on their mental situation. Professional's knowledge and comment's on those will help to solve and find solution much easier.

1.3 Background

During this project a pandemic cause of covid-19 going on and rate of suicidal activities for various mental issues has been rising up. So this project is a medium to get necessary help even at lockdown for pandemic.

1.4 Benefits &Beneficiaries

Benefits:

- ❖ Easy to contact with professionals (specialist).
- ❖ Easy to share experience, knowledge, info via chat rooms.
- ❖ Calendar will help to manage events

- ❖ Making appointments and managing them.
- ❖ Helps to grow awareness about wellbeing about health.
- ❖ Availability of latest health related news.
- ❖ Self assessment about thy health and suggestion.

Beneficiaries:

- ❖ General/Basic users
- ❖ Professionals/Specialists (Physicians, Psychologists, Psychiatrists etc...).
- ❖ Host organizations

1.5 Goals

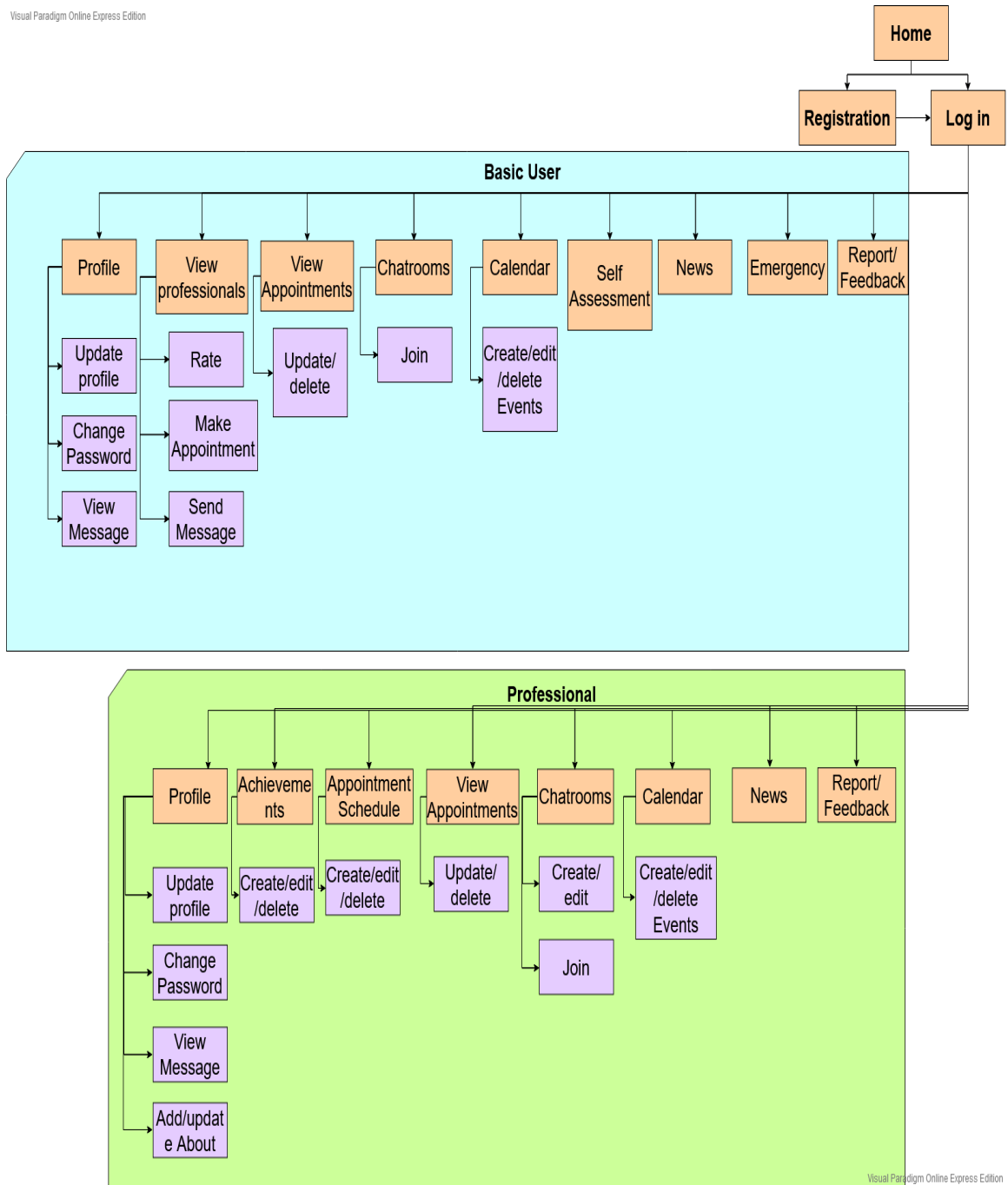
- To grow awareness about both physical and mental health
- Create a friendly environment to share health related problems, solutions and experiences
- Maintaining calendar for health related events like donating blood, test day, monthly checkup etc... neatly.
- Connect general people and health specialist.

1.6 Stakeholders

- General users
- Health Specialist
- Host organizations

1.7 Proposed System Model (Block Diagram)

Visual Paradigm Online Express Edition



Visual Paradigm Online Express Edition

Figure 1.7.1: Block Diagram

1.8 Project Schedule

Gantt chart:

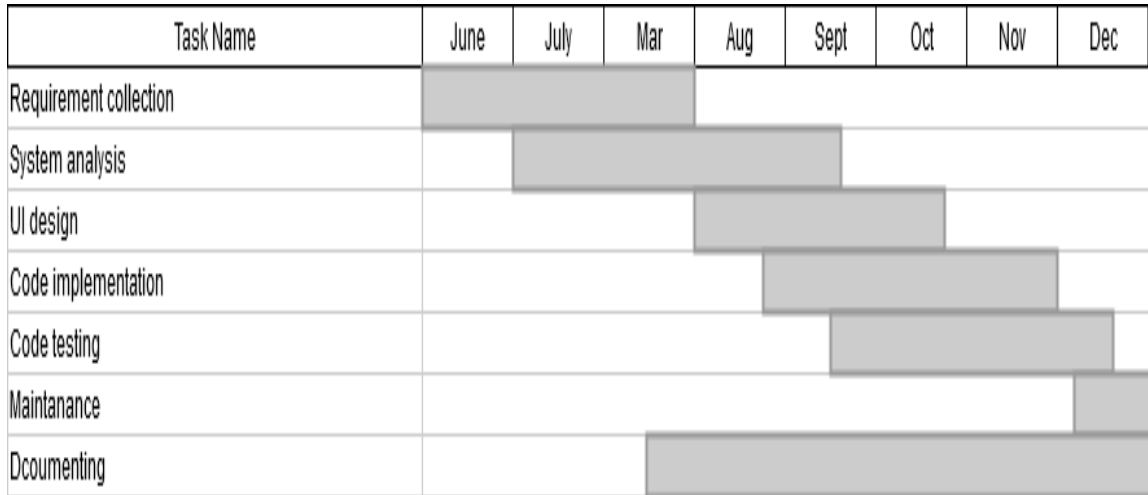


Figure 1.8.1: Gantt chart

1.9 Release Plan

After development and final testing of this web application “Health Portal”, estimated release date is set to 28 December 2020.

CHAPTER 2: SOFTWARE REQUIREMENT SPECIFICATION

2.1 Functional requirement (Basic users)

Table 2.1-1: BU.FRC-1

Requirement ID	BU.FRC-1
Requirement Name	Own account
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Basic users, Admin
Requirement Description	Each user must have individual account .

Table 2.1-2: BU.FRC-2

Requirement ID	BU.FRC-2
Requirement Name	Registration
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Basic users, Admin
Requirement Description	User must get registered to get an account .

Table 2.1-3: BU.FRC-3

Requirement ID	BU.FRC-3
Requirement Name	Profile update
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Basic users, Admin
Requirement Description	User can change their basic account

	information such as (change profile picture, change password etc .)
--	--

Table 2.1-4: BU.FRC-4

Requirement ID	BU.FRC-4
Requirement Name	Log in
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Basic users
Requirement Description	User must log in to access all functionality of the system .

Table 2.1-5: BU.FRC-5

Requirement ID	BU.FRC-5
Requirement Name	Search Professional
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Basic users
Requirement Description	User can search for professionals also filter out desired specialist.

Table 2.1-6: BU.FRC-6

Requirement ID	BU.FRC-6
Requirement Name	Search Chat room
Requirement Type	Functional

Requirement Priority	Medium
Stakeholders	Basic users
Requirement Description	User can search for chat room and also filter out private and/or anonymous chat rooms.

Table 2.1-7: BU.FRC-7

Requirement ID	BU.FRC-7
Requirement Name	Password Protected Chat Room
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Basic users, Professional users
Requirement Description	Users have to enter password if the chat room is locked. Private chat room can be password protected.

Table 2.1-8: BU.FRC-8

Requirement ID	BU.FRC-8
Requirement Name	Anonymous Supported Chat Room
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Basic users, Professional users
Requirement Description	Users can join with their name or be anonymous in anonymous supported chat room.

Table 2.1-9: BU.FRC-9

Requirement ID	BU.FRC-9
Requirement Name	News
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Basic users
Requirement Description	Users can see latest news about health related issues/topics.

Table 2.1-10: BU.FRC-10

Requirement ID	BU.FRC-10
Requirement Name	Message
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Basic users, Professional users
Requirement Description	User can message professionals for appointment and other related issues.

Table 2.1-11: BU.FRC-11

Requirement ID	BU.FRC-11
Requirement Name	View Professional's Profile
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Basic users, Professional users
Requirement Description	User can see professional's details, reviews,

	achievements and appointment schedule and make appointment.
--	---

Table 2.1-12: BU.FRC-12

Requirement ID	BU.FRC-12
Requirement Name	Calendar
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Basic users
Requirement Description	User can see manage their calendar/events.

Table 2.1-13: BU.FRC-13

Requirement ID	BU.FRC-13
Requirement Name	Feedback
Requirement Type	Functional
Requirement Priority	Low
Stakeholders	Basic users, Admin
Requirement Description	User can leave a message/feedback/report to the admin .

Table 2.1-14: BU.FRC-14

Requirement ID	BU.FRC-14
Requirement Name	Emergency
Requirement Type	Functional

Requirement Priority	Low
Stakeholders	Basic users
Requirement Description	User can use emergency option to find available hospital, ambulance, doctor or other helps.

Table 2.1-15: BU.FRC-15

Requirement ID	BU.FRC-15
Requirement Name	Rate
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Basic users, Professional users
Requirement Description	User can review and rate particular professionals .

Table 2.1-16: BU.FRC-16

Requirement ID	BU.FRC-16
Requirement Name	Self Assessment
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Basic users, Professional users
Requirement Description	User can use self assessment option to explore own health by filling out necessary inputs.

2.2 Functional requirement (Professionals (doctors, psychologist, therapist))

Table 2.2-1: PU.FR-1

Requirement ID	PU.FR-1
Requirement Name	Own Account
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Professional users
Requirement Description	Each Professional must have individual account .

Table 2.2-2: PU.FR-2

Requirement ID	PU.FR-2
Requirement Name	Registration
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Professional users, Admin
Requirement Description	Professional must get registered to get an account .

Table 2.2-3: PU.FR-3

Requirement ID	PU.FR-3
Requirement Name	Profile Update
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Professional users, Admin

Requirement Description	Professional can change their basic account information such as (change profile picture, change password etc .)
-------------------------	--

Table 2.2-4: PU.FR-4

Requirement ID	PU.FR-4
Requirement Name	Log In
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Professional users
Requirement Description	Professional must logged in to access all functionality of the system .

Table 2.2-5: PU.FR-5

Requirement ID	PU.FR-5
Requirement Name	Achievement
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Professional users
Requirement Description	Professional can put their certificate, achievements etc to validate their field.

Table 2.2-6: PU.FR-6

Requirement ID	PU.FR-6
Requirement Name	Search Chat Room

Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Professional users
Requirement Description	Professional can search for chat room and also filter out private and/or anonymous chat rooms.

Table 2.2-7: PU.FR-7

Requirement ID	PU.FR-7
Requirement Name	Create Chat Room
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Professional users, Basic users
Requirement Description	Professional can create online chat room for single, couple and group therapy/counseling.

Table 2.2-8: PU.FR-8

Requirement ID	PU.FR-8
Requirement Name	News
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Professional users
Requirement Description	Professional can see latest news about health related issues.

Table 2.2-9: PU.FR-9

Requirement ID	PU.FR-9
Requirement Name	Calendar
Requirement Type	Functional
Requirement Priority	Medium
Stakeholders	Professional users
Requirement Description	Professional can see manage their calendar/events.

Table 2.2-10: PU.FR-10

Requirement ID	PU.FR-10
Requirement Name	Appointments
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Professional users
Requirement Description	Professional can see their appointments and manage their appointment schedule.

Table 2.2-11: PU.FR-11

Requirement ID	PU.FR-11
Requirement Name	Feedback
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Professional users, Admin
Requirement Description	Professional can leave a message/ feedback/

	report to the admin .
--	-----------------------

2.3 Function requirement (Admin)

Table 2.3-1: AD.FR-1

Requirement ID	AD.FR-1
Requirement Name	Account
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Admin
Requirement Description	Admin will have secret username and password to login into the system .

Table 2.3-2: AD.FR-2

Requirement ID	AD.FR-2
Requirement Name	Monitor
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Admin
Requirement Description	After login admin can monitoring the system .

Table 2.3-3: AD.FR-3

Requirement ID	AD.FR-3
Requirement Name	Create Chat Room
Requirement Type	Functional

Requirement Priority	High
Stakeholders	Admin
Requirement Description	Admin can add new public/private chat room .

Table 2.3-4: AD.FR-4

Requirement ID	AD.FR-4
Requirement Name	Verify
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Admin
Requirement Description	Admin can verify professional .

Table 2.3-5: AD.FR-5

Requirement ID	AD.FR-5
Requirement Name	Account Management
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Admin
Requirement Description	Admin can edit user information and also can delete users .

Table 2.3-6: AD.FR-6

Requirement ID	AD.FR-6
----------------	---------

Requirement Name	Message
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Admin
Requirement Description	Admin can search for user and contact them.

Table 2.3-7: AD.FR-7

Requirement ID	AD.FR-7
Requirement Name	Profile Update
Requirement Type	Functional
Requirement Priority	High
Stakeholders	Admin
Requirement Description	Admin can change his/her security credentials (username & password) .

2.4 Non-Functional requirement

Table 2.4-1: N-FR-1

Requirement ID	N-FR-1
Requirement Type	Non-Functional
Requirement Priority	Medium
Requirement Description	System will have dynamic eye catching interface .

Table 2.4-2: N-FR-2

Requirement ID	N-FR-2
Requirement Type	Non-Functional
Requirement Priority	High
Requirement Description	System will have dynamic search engine .

Table 2.4-3: N-FR-3

Requirement ID	N-FR-3
Requirement Type	Non-Functional
Requirement Priority	Medium
Requirement Description	Recent updated news will be shown in homepage simultaneously .

Table 2.4-4: N-FR-4

Requirement ID	N-FR-4
Requirement Type	Non-Functional
Requirement Priority	Medium
Requirement Description	System offers lower execution time .

Table 2.4-5: N-FR-5

Requirement ID	N-FR-5
Requirement Type	Non-Functional
Requirement Priority	Medium
Requirement Description	System contains automatic menu adapting capability .

Table 2.4-6: N-FR-6

Requirement ID	N-FR-6
Requirement Type	Non-Functional
Requirement Priority	Medium
Requirement Description	System will automatically updates whenever new data arises .

CHAPTER 3:SYSTEM ANALYSIS AND DESIGN SPECIFICATION

3.1 System Development Life-Cycle

In this project I use “Agile Model” for SDLC. Because this model gives flexibility to developers, functionality can be developed rapidly and demonstrated, good model for environments that change steadily and easy to manage. This model follows a very realistic approach to software development. This model helps to break product in small iterations. Every iteration involves various areas like –

- Planning
- Requirements Analysis
- Design
- Coding
- Unit Testing and
- Acceptance Testing.

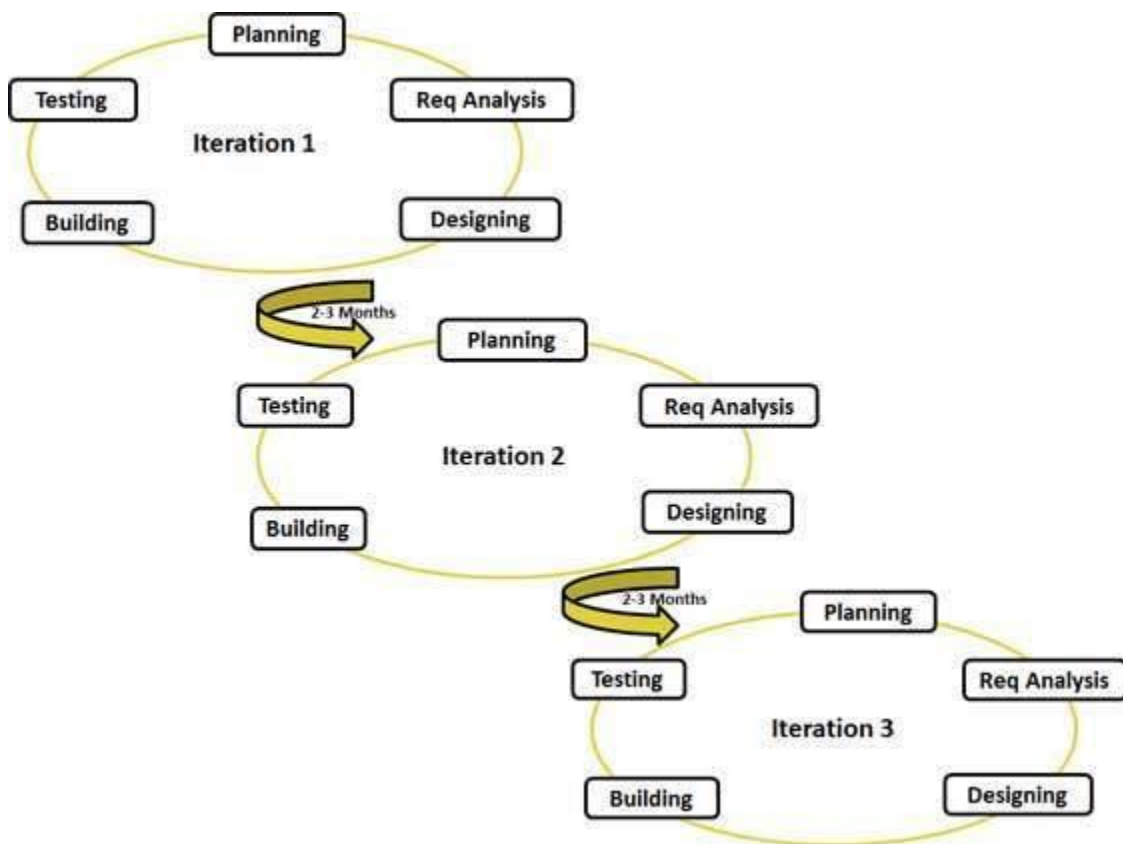


Figure 3.1.1: Agile Model

3.2 Use Case Diagram

Overview of the use cases model of this proposed system "Health Portal".

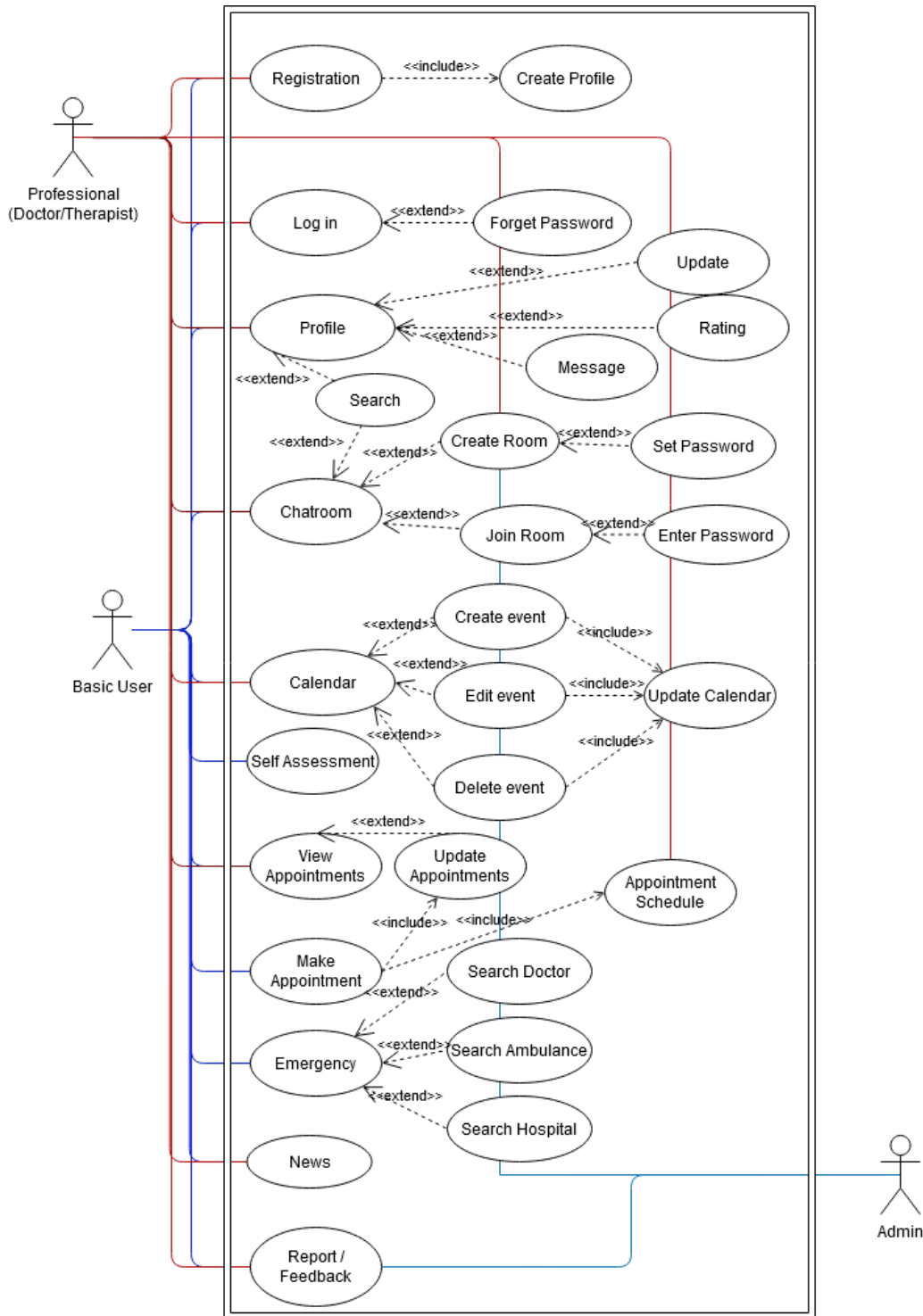


Figure 3.2.1: Use Case Diagram

3.3 Identifying Use Cases

Table 3.3-1: Identifying Use Cases

UC-1:	Registration
UC-2	Login
UC-3:	Profile
UC-4:	Appointment Schedule
UC-5:	Make Appointment
UC-6:	View Appointments
UC-7:	Chatroom
UC-8:	Calendar
UC-9:	Self Assessment
UC-10:	Emergency
UC-11:	News
UC-12:	Report/Feedback

3.4 Identifying Use Cases Description

Table 3.4-1: UCDescription-1: Registration

Use Case ID	1
Name	Registration
Goal	Register Accounts for to use the system.
Preconditions	Users must chose unqiue username and have a new email address to create a new account.
Success End Condition	Registration successful.
Failed End Condition	Registration failed.
Primary Actors:	Basic User, Professional

Secondary Actors:		
Trigger	Click to register.	
Description / Main Success Scenario	Step	Action
	1	Click to register.
	2	Select User type
	3.1	Enter require details.
	3.2	Enter password.
	4	Registration complete.
	5	Redirect to home page.
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
	1	User should enter details carefully.
	2	All the input values must be validated.

Table 3.4-2: UCDescription-2: Login

Use Case ID	2	
Name	Login	
Goal	Login into the system.	
Preconditions	User must have an account.	
Success End Condition	Login successful.	
Failed End Condition	Login failed.	
Primary Actors:	Basic User, Professional	
Secondary Actors:		
Trigger	Click to Login.	
Description / Main Success Scenario	Step	Action
	1	Click to login.
	2	Enter username

	3.	Enter password.
	4	Login complete.
	5	Redirect to home page.
Alternative Flows	Step	Branching Action
	1	Forget password
	2	Enter email
	3	Go to link given in email
	4	Change password
	5	Log in
Quality Requirements	Step	Requirement
	1	User should enter details carefully.
	2	All the input values must be validated.

Table 3.4-3: UCDescription-3: Profile

Use Case ID	3	
Name	Profile	
Goal	View and edit profile	
Preconditions	User must have an account.	
Success End Condition	Profile update successful.	
Failed End Condition	Profile update failed.	
Primary Actors:	Basic User, Professional	
Secondary Actors:	Professional	
Trigger	Click to edit profile.	
Description / Main Success Scenario	Step	Action
	1	Click to edit profile.
	2	Enter details.
	3.	Add necessary info.
	4	Profile updated.
	5	Redirect to home page.

Alternative Flows	Step	Branching Action
	1	View professional's profile.
	1.1	View appointment schedule.
	1.2	Rate them.
	1.3	Message them.
Quality Requirements	Step	Requirement
	1	User should enter details carefully.
	2	All the input values must be validated.

Table 3.4-4: UCDescription-4: Appointment Schedule

Use Case ID	4	
Name	Appointment Schedule	
Goal	View and edit appointment schedule	
Preconditions	User must have an account.	
Success End Condition	Appointment Schedule update successful.	
Failed End Condition	Appointment Schedule update failed.	
Primary Actors:	Professional	
Secondary Actors:		
Trigger	Click to Appointment Schedule.	
Description / Main Success Scenario	Step	Action
	1	Click to edit/add appointment schedule.
	2	Enter details.
	3.	Add necessary info.
	4	Appointment schedule added/updated.
	5	Redirect to home page.
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
	1	User should enter details carefully.

	2	All the input values must be validated.
--	---	---

Table 3.4-5: UCDescription-5: Make Appointment

Use Case ID	5	
Name	Make Appointment	
Goal	Make appointment to professional.	
Preconditions	User must have an account.	
Success End Condition	Appointment booked.	
Failed End Condition	Appointment booked failed.	
Primary Actors:	Basic User	
Secondary Actors:		
Trigger	Click to make appointment.	
Description / Main Success Scenario	Step	Action
	1	Click to make appointment.
	2	Choose date
	3.	Choose available slot.
	4	Enter details.
	5	Booked appointment.
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
	1	User should enter details carefully.
	2	All the input values must be validated.

Table 3.4-6: UCDescription-6: View Appointments

Use Case ID	6
Name	View Appointments
Goal	View and update appointments.

Preconditions	User must have a account.	
Success End Condition	Appointment updated.	
Failed End Condition	Appointment update failed.	
Primary Actors:	Basic User, Professional	
Secondary Actors:		
Trigger	Click to view appointment.	
Description / Main Success Scenario	Step	Action
	1	Select appointment.
	2.1	Edit status.
	2.2	Delete appointment.
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
	1	Today's appointment will be visible separately.
	2	Notification will be sent for today's appointment.

Table 3.4-7: UCDescription-7: Chatroom

Use Case ID	7
Name	Chatroom
Goal	Join chatroom
Preconditions	User must have an account.
Success End Condition	Join chatroom and chat.
Failed End Condition	Failed to join or chat.
Primary Actors:	Basic User, Professional

Secondary Actors:		
Trigger	Click to Chatrooms.	
Description / Main Success Scenario	Step	Action
	1	Select chatroom.
	2.1	Enter password (if required).
	2.2	Choose join option as myself or anonymous.
3	Start chatting.	
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
	1	Chats should be clear to read.

Table 3.4-8: UCDescription-8: Calendar

Use Case ID	8	
Name	Calendar	
Goal	View Calendar with events, add/update/delete events.	
Preconditions	User must have an account.	
Success End Condition	Event added/updated/deleted.	
Failed End Condition	Event added/updated/deleted failed.	
Primary Actors:	Basic User, Professional	
Secondary Actors:		
Trigger	Click to Calendar.	
Description / Main Success Scenario	Step	Action
	1	Click to add new event.
	2	Enter details.
	3.	Select event.
	4.1	Update event.
	4.2	Delete event.

Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
	1	User should enter details carefully.
	2	All the input values must be validated.

Table 3.4-9: UCDescription-9: Self Assessment

Use Case ID	9	
Name	Self Assessment	
Goal	Self Assessment and get result and suggestion.	
Preconditions	User must have an account.	
Success End Condition	Self Assessment and get result and suggestion.	
Failed End Condition	Self assessment failed.	
Primary Actors:	Basic User	
Secondary Actors:		
Trigger	Click to Self assessment	
Description / Main Success Scenario	Step	Action
	1	Click to Self assessment.
	2	Choose field.
	3.	Choose sector.
	4.	Enter required details.
	5.	See results and suggestion.
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
	1	User should enter details carefully.
	2	All the input values must be validate.

Table 3.4-10: UCDescription-10: Emergency

Use Case ID	10	
Name	Emergency	
Goal	Able to use Emergency options.	
Preconditions	User must have an account.	
Success End Condition	Get help from emergency.	
Failed End Condition		
Primary Actors:	Basic User	
Secondary Actors:		
Trigger	Click to Emergency.	
Description / Main Success Scenario	Step	Action
	1	Enter emergency
	2.1	Select ambulance
	2.2	Select doctors
	2.3	Select Hospital
3.	Get necessary info.	
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
	1	All info should be easy to read.
	2	Valid data will be provided.

Table 3.4-11: UCDescription-11: News

Use Case ID	11
Name	News
Goal	User able to see latest health related news.
Preconditions	User must have an account.
Success End Condition	User able to see latest health related news.

Failed End Condition	User unable to see latest health related news	
Primary Actors:	Basic User, Professional	
Secondary Actors:		
Trigger		
Description / Main Success Scenario	Step	Action
	1	Latest health related news load up.
	2	Refresh when new news come up.
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
	1	News must be from authentic source.

Table 3.4-12: UCDescription-12: Report/Feedback

Use Case ID	12	
Name	Report/Feedback	
Goal	Report or send feedback to admin.	
Preconditions	User must have an account.	
Success End Condition	Report or feedback sent to admin successful.	
Failed End Condition	Report or feedback sent to admin failed.	
Primary Actors:	Basic User, Professional	
Secondary Actors:	Admin	
Trigger	Click to Report/Feedback	
Description / Main Success Scenario	Step	Action
	1	Click to Report/Feedback.
	2	Choose field.

	3.	Choose priority.
	4.	Enter required details.
	5.	Redirect to home page.
Alternative Flows	Step	Branching Action
Quality Requirements	Step	Requirement
	1	User should enter details carefully.
	2	All the input values must be validate.

3.5 Activity Diagram

Start activity diagram

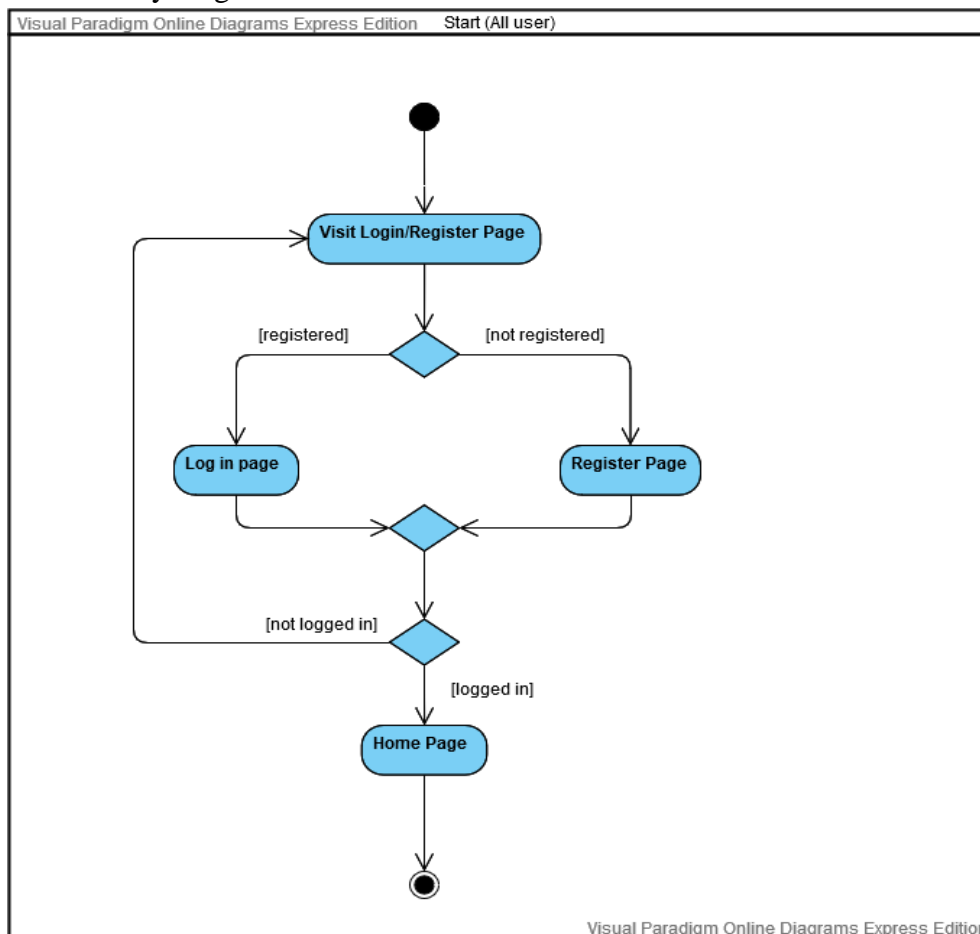


Figure 3.5.1:Start activity diagram

UC-1:Registration activity diagram

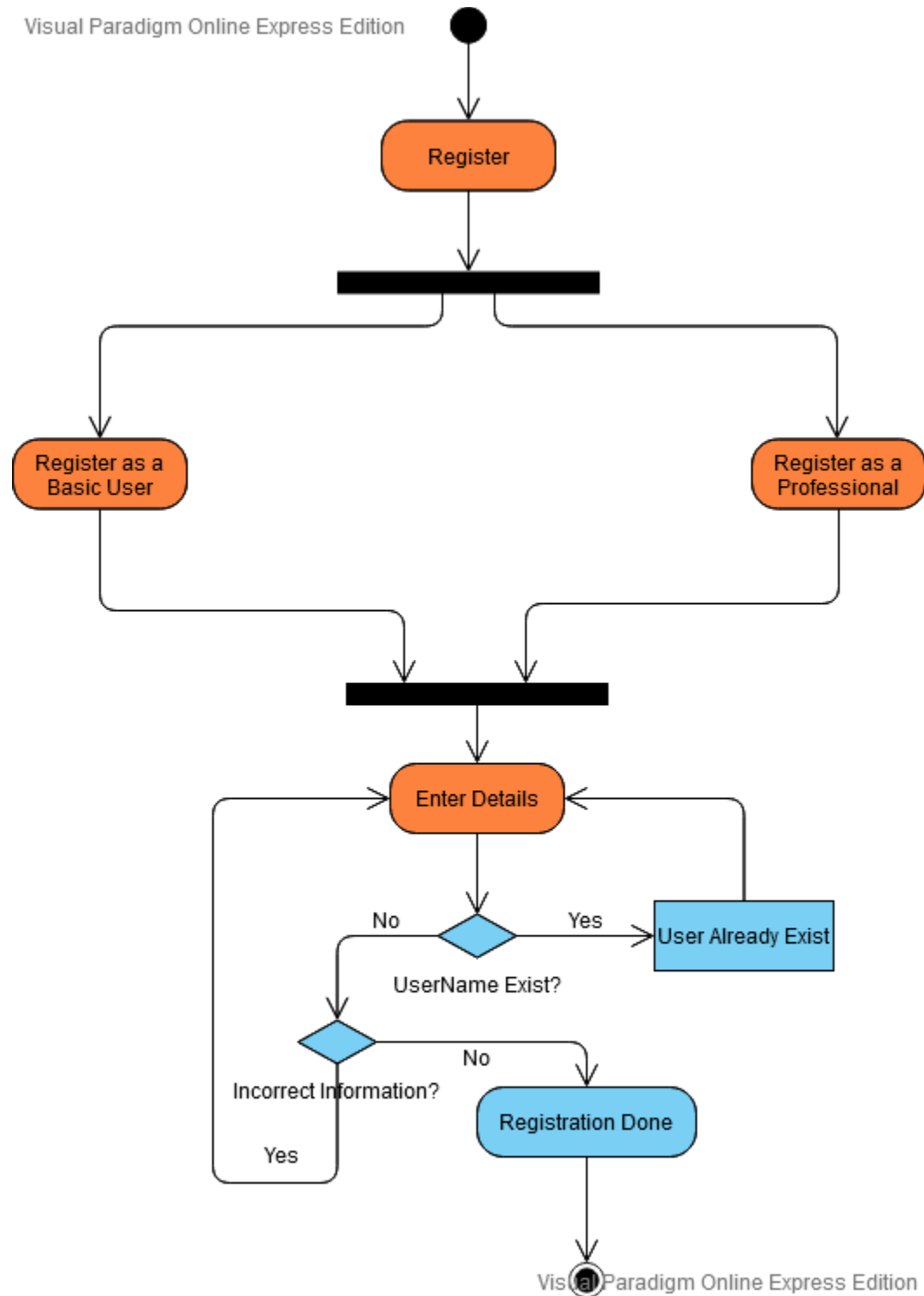


Figure 3.5.2: UC-1:Registration activity diagram

UC-2:Login activity diagram

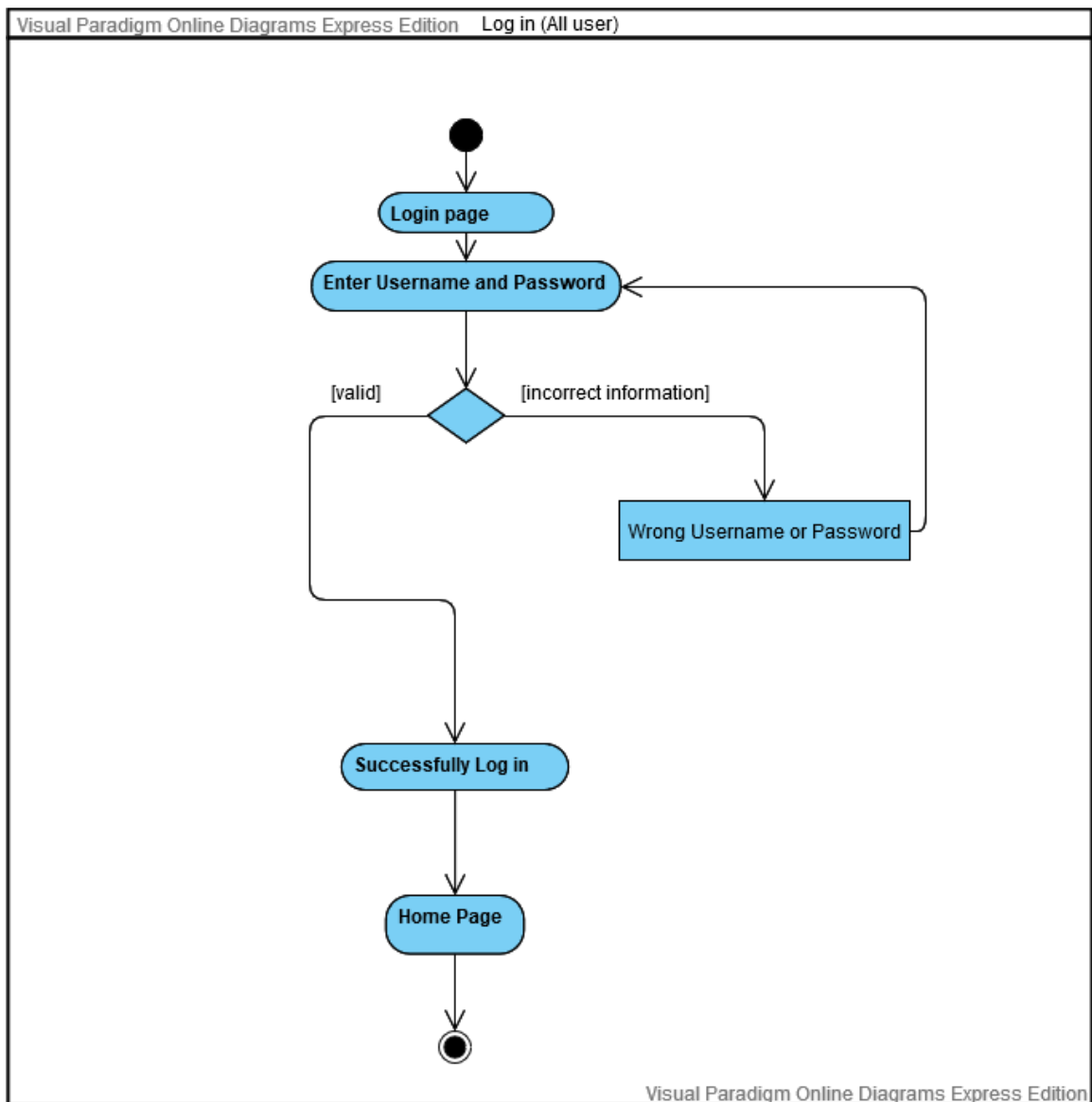


Figure 3.5.3:UC-2:Login activity diagram

UC-3:Profile activity diagram

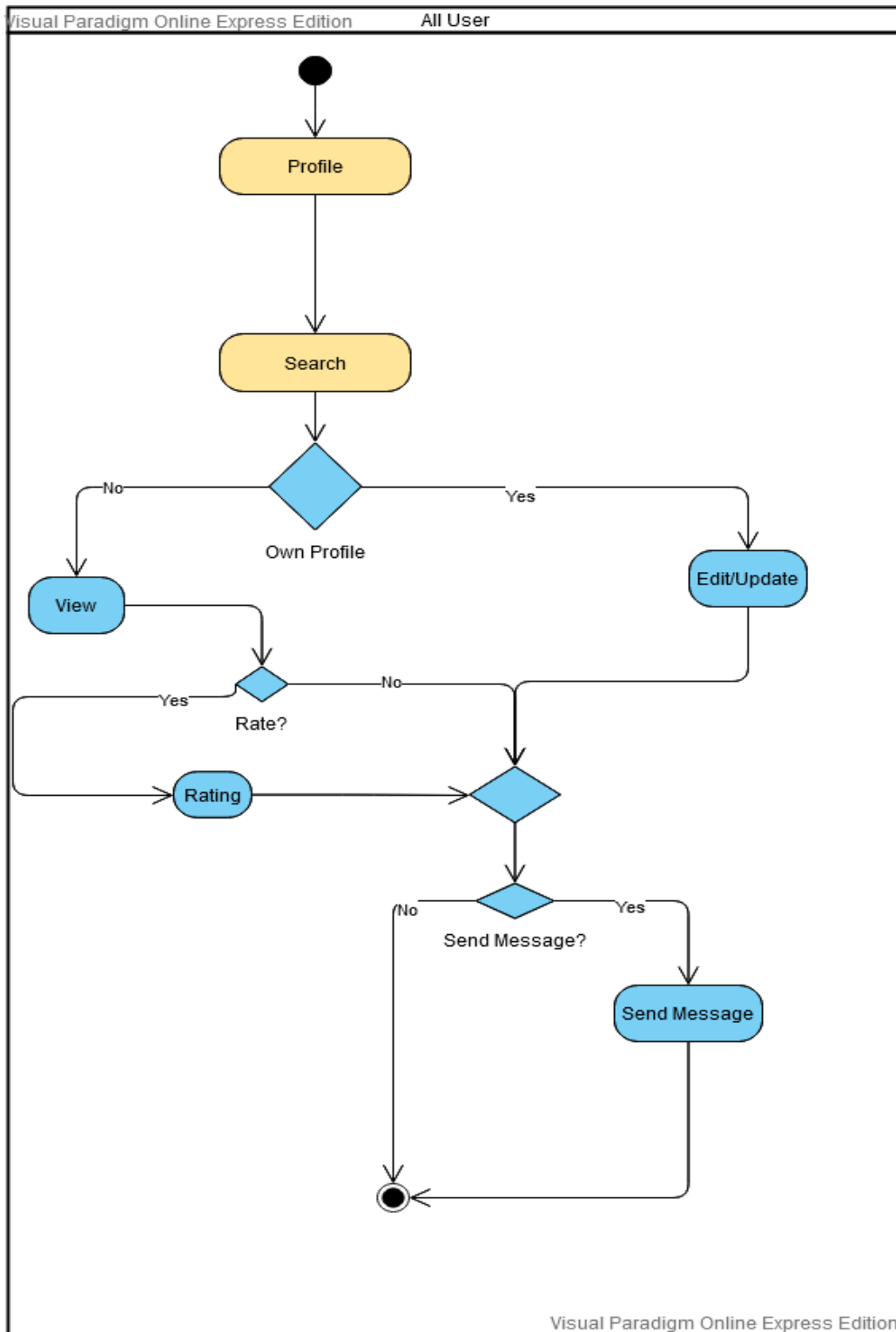


Figure 3.5.4: UC-3:Profile activity diagram

UC-4:Appointment Schedule activity diagram

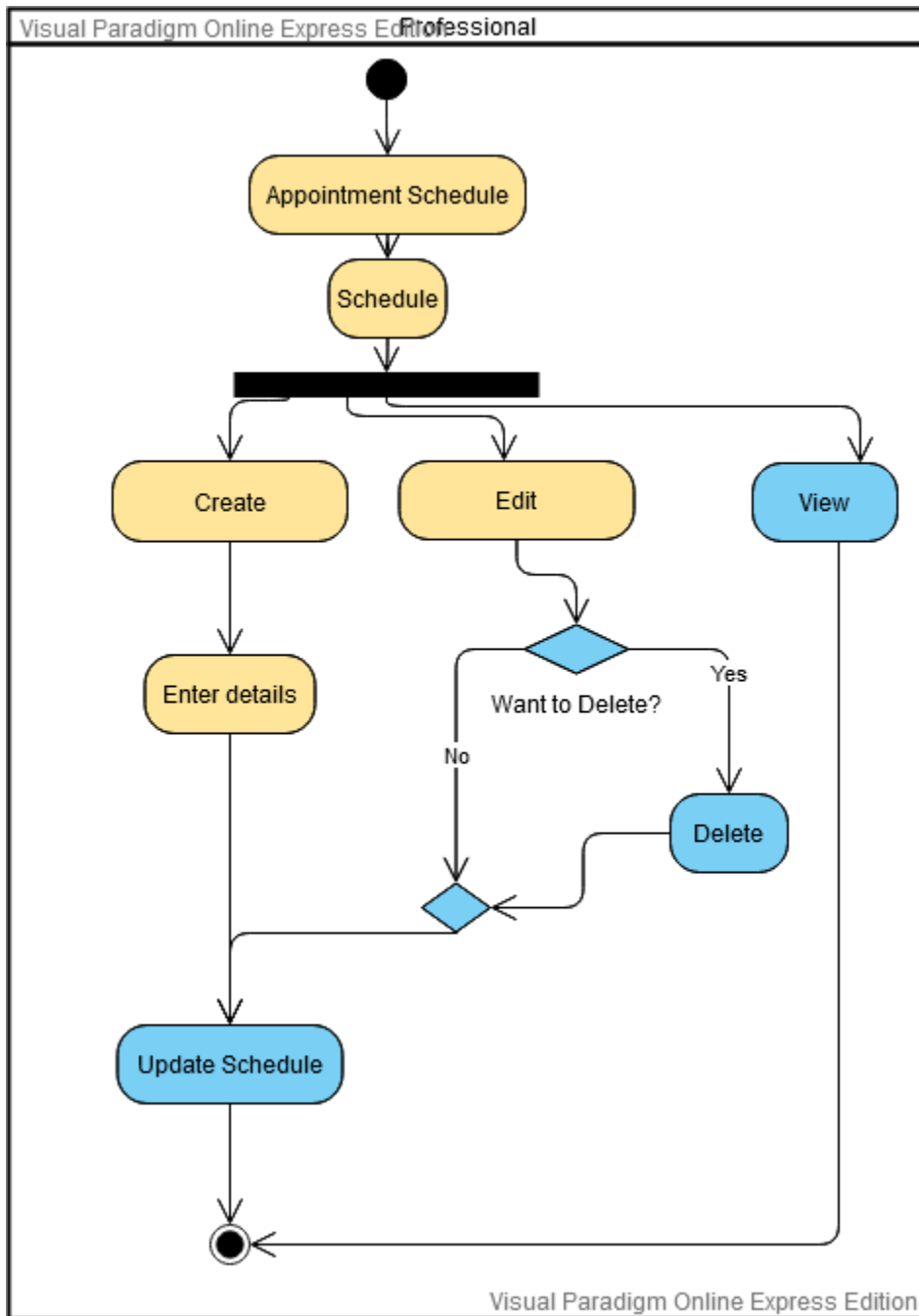


Figure 3.5.5:UC-4:Appointment Schedule activity diagram

UC-5:Make Appointment activity diagram

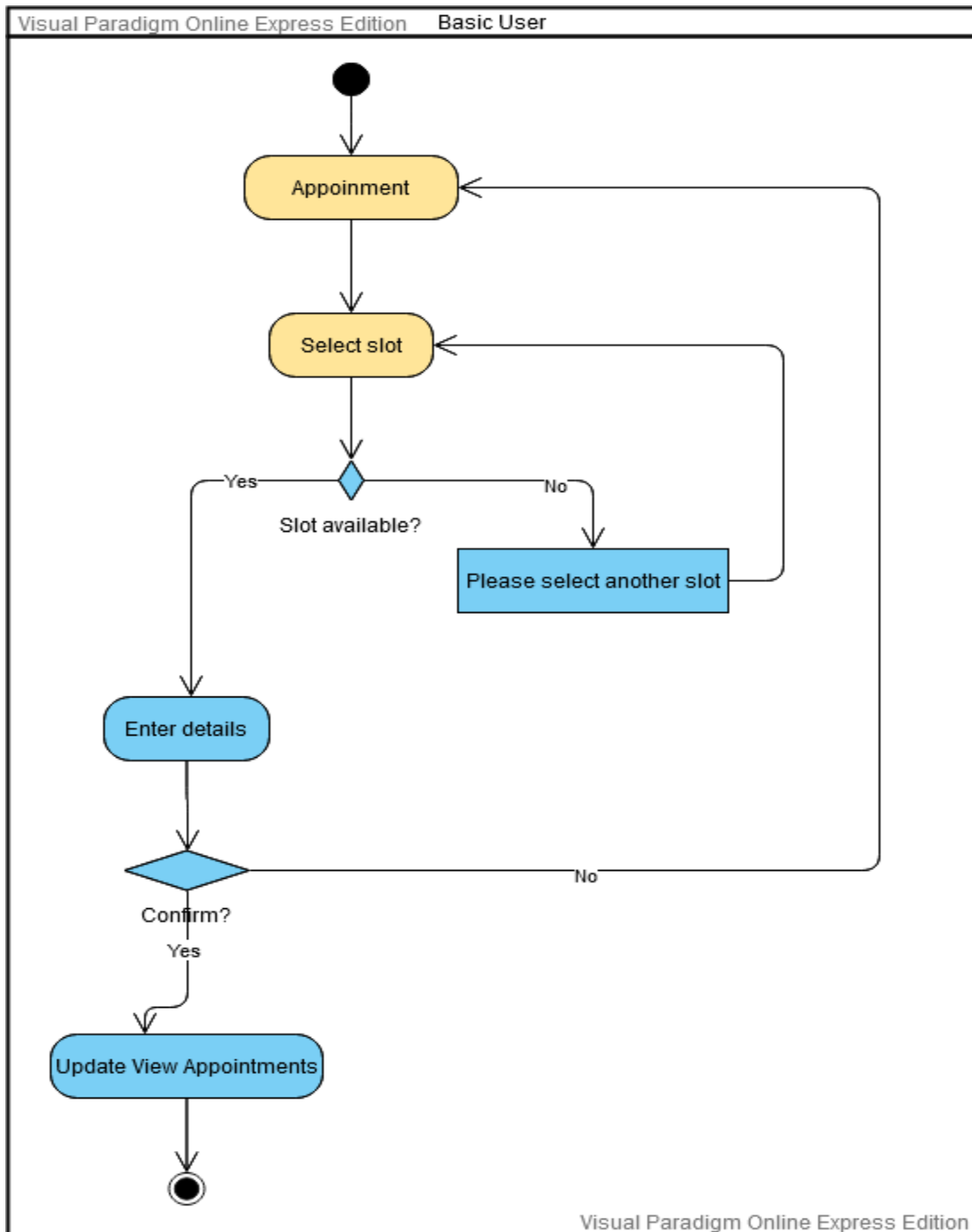


Figure 3.5.6:UC-5:Make Appointment activity diagram

UC-6:View Appointments activity diagram

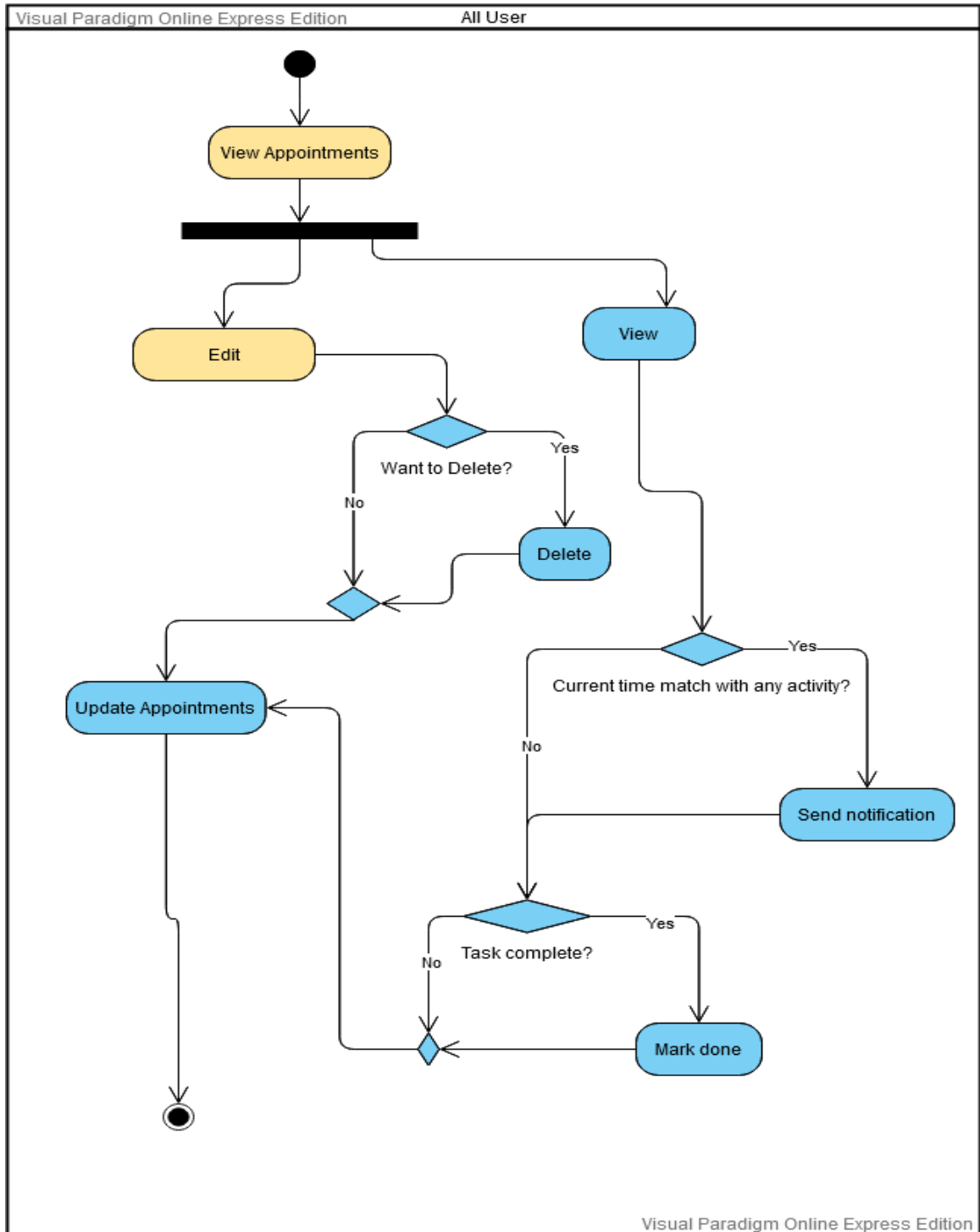


Figure 3.5.7:UC-6:View Appointments activity diagram

UC-7:Chatroom activity diagram

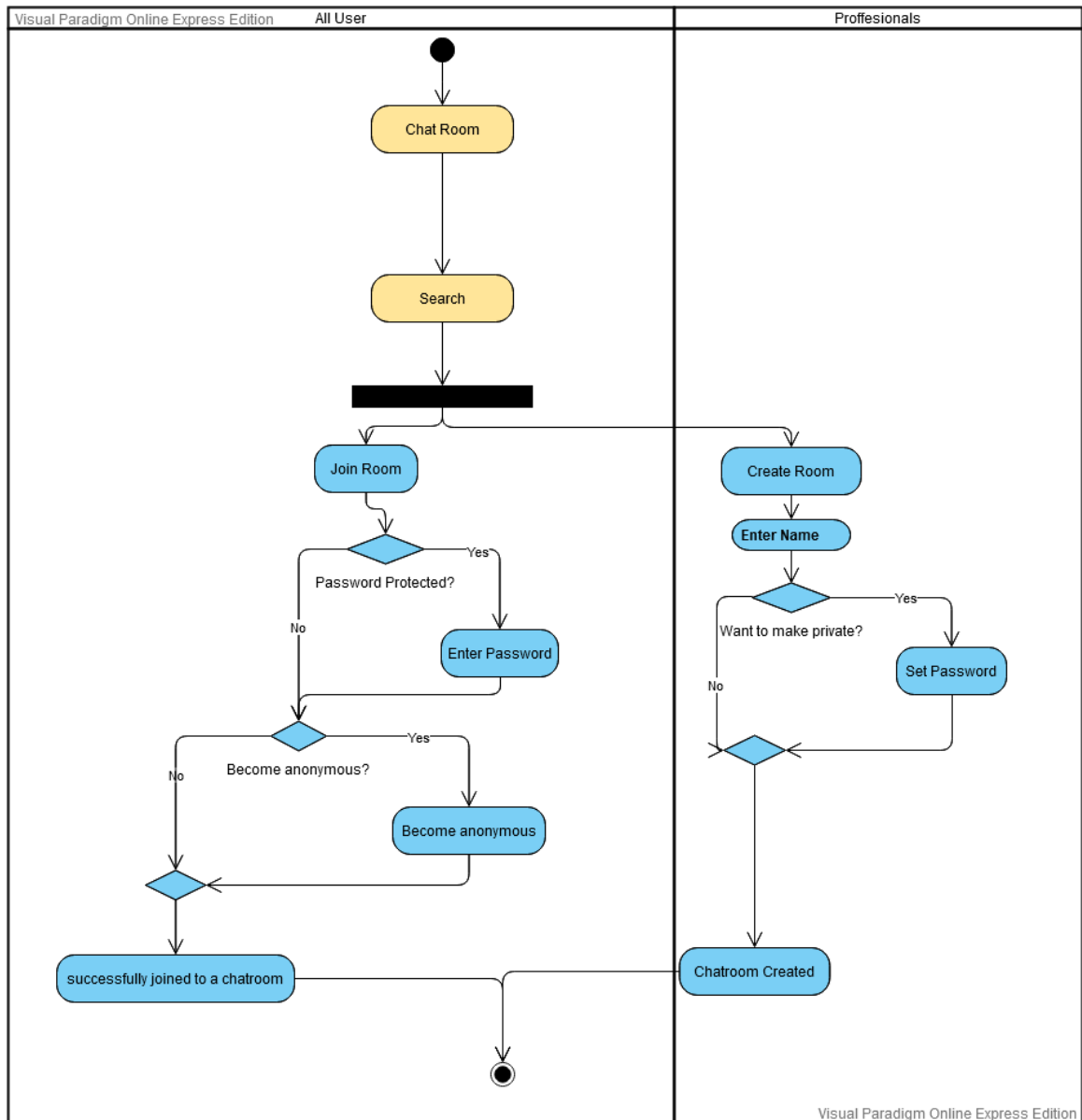


Figure 3.5.8:UC-7:Chatroom activity diagram

UC-8:Calendar activity diagram

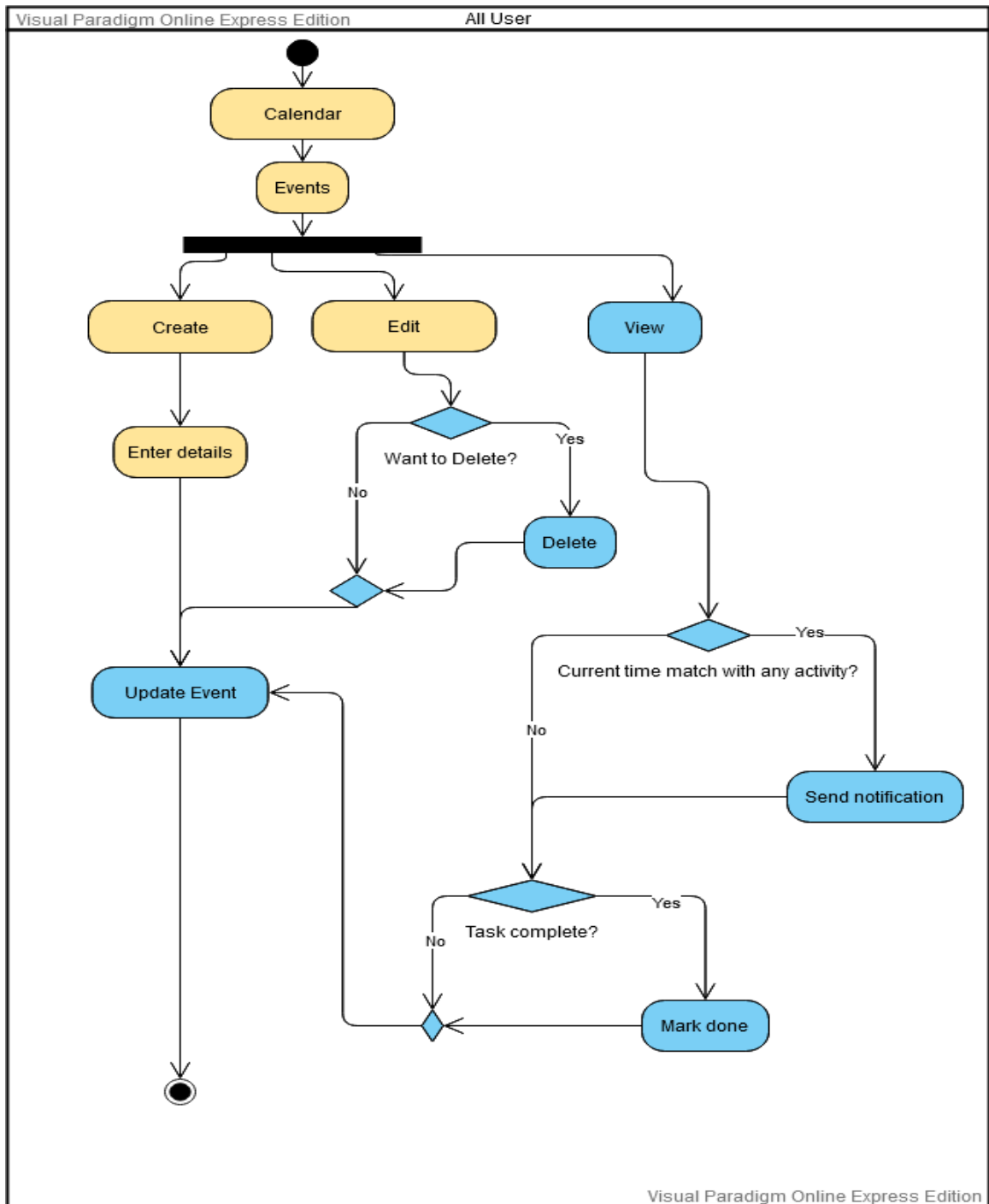


Figure 3.5.9:UC-8:Calendar activity diagram

UC-9:Self Assessment activity diagram

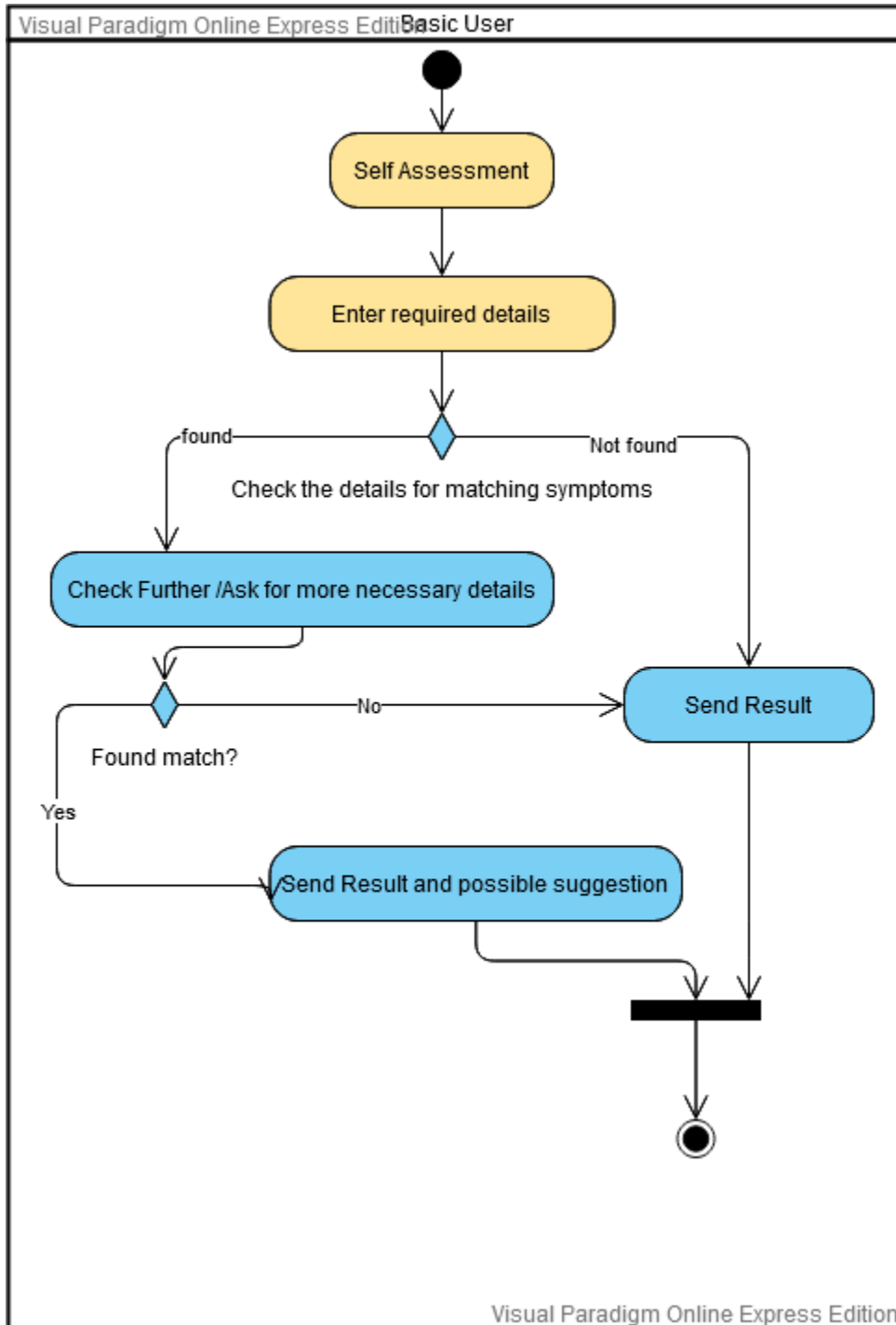


Figure 3.5.10:UC-9:Self Assessment activity diagram

UC-10:Emergency activity diagram

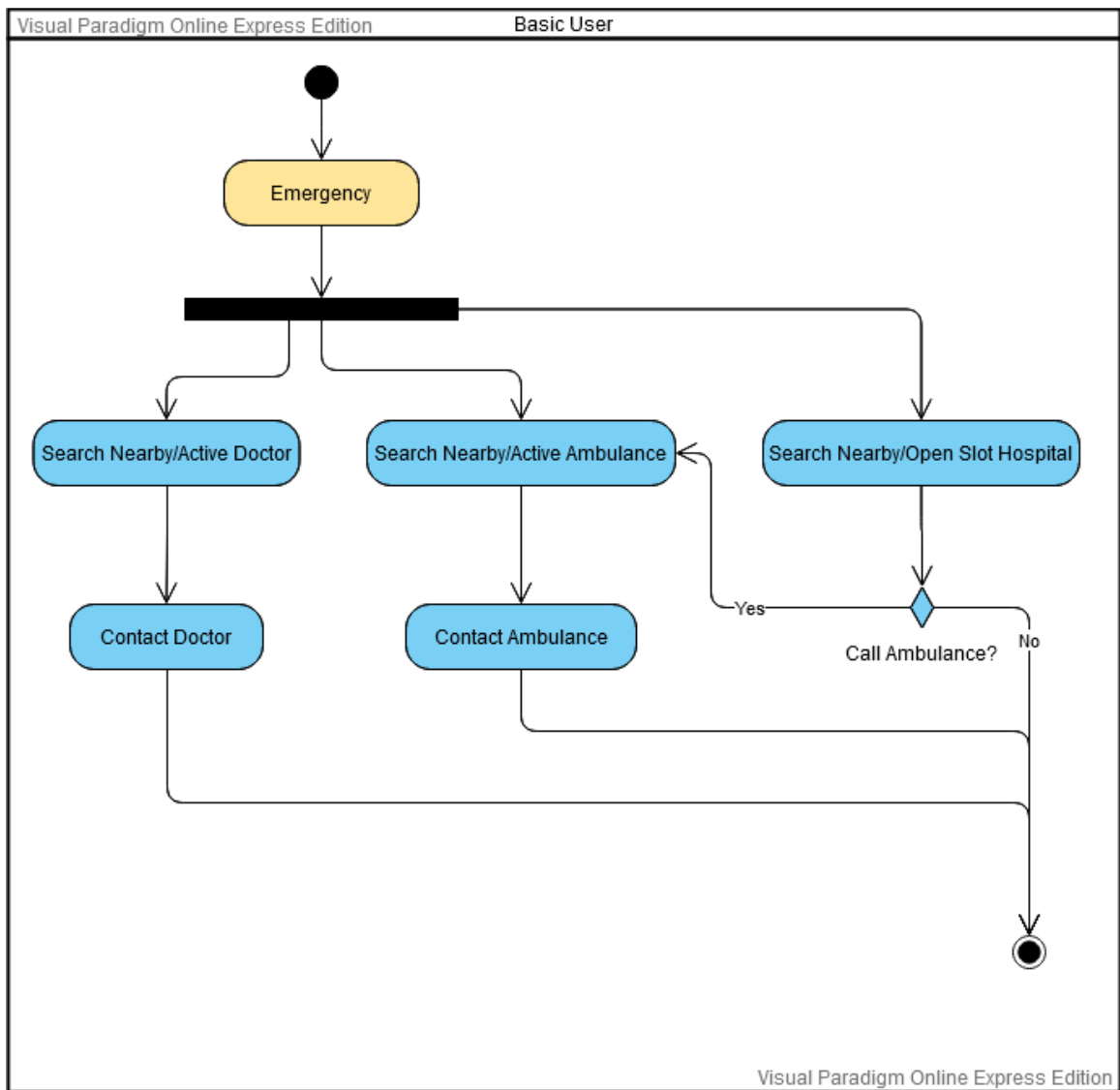


Figure 3.5.11:UC-10:Emergency activity diagram

UC-11:News activity diagram

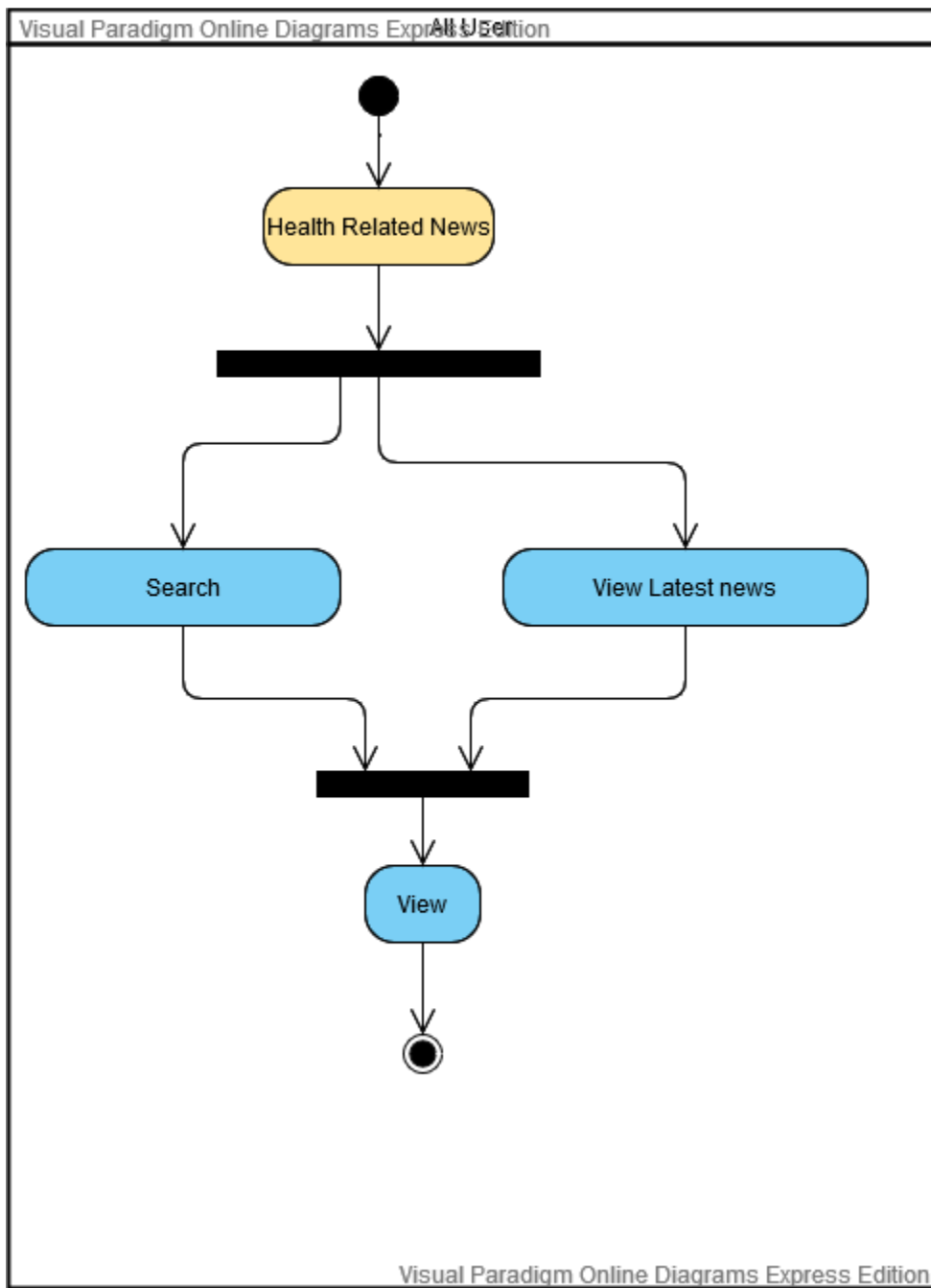


Figure 3.5.12:UC-11:News activity diagram

UC-12:Report/Feedback activity diagram

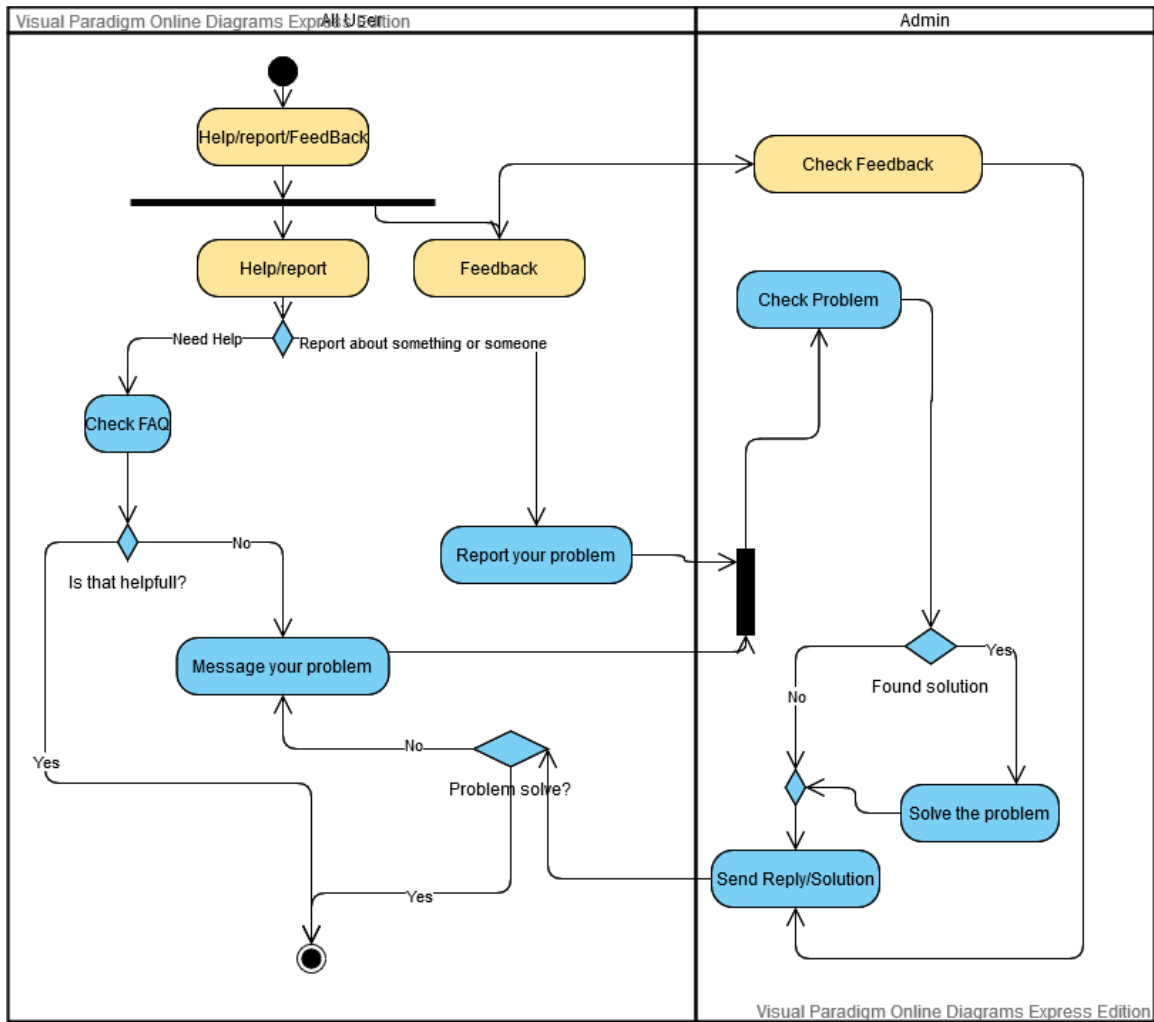


Figure 3.5.13:UC-12:Report/Feedback activity diagram

3.6 Class Diagram

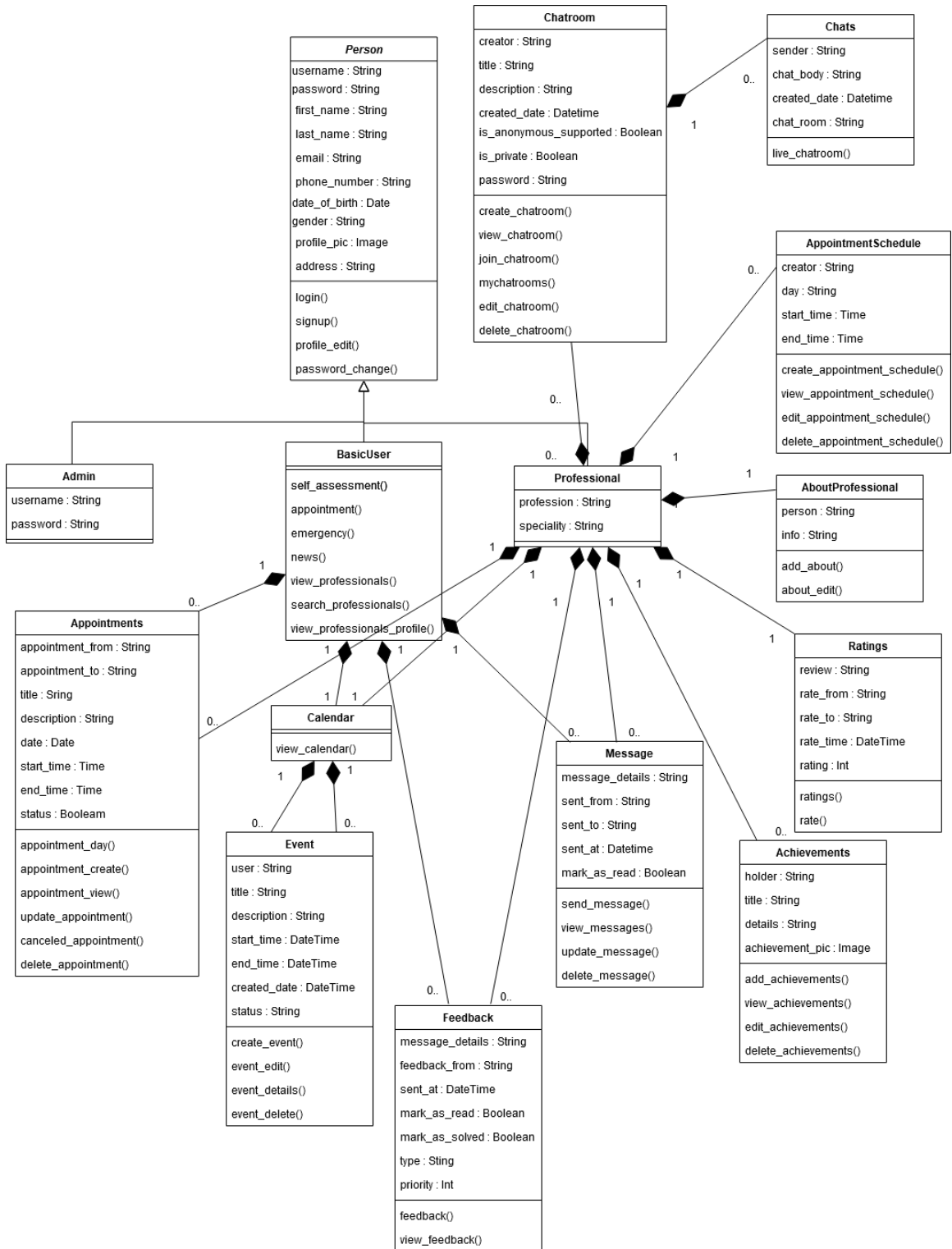


Figure 3.6.1: Class Diagram

3.7 Sequence Diagram

UC-1: Registration Sequence Diagram

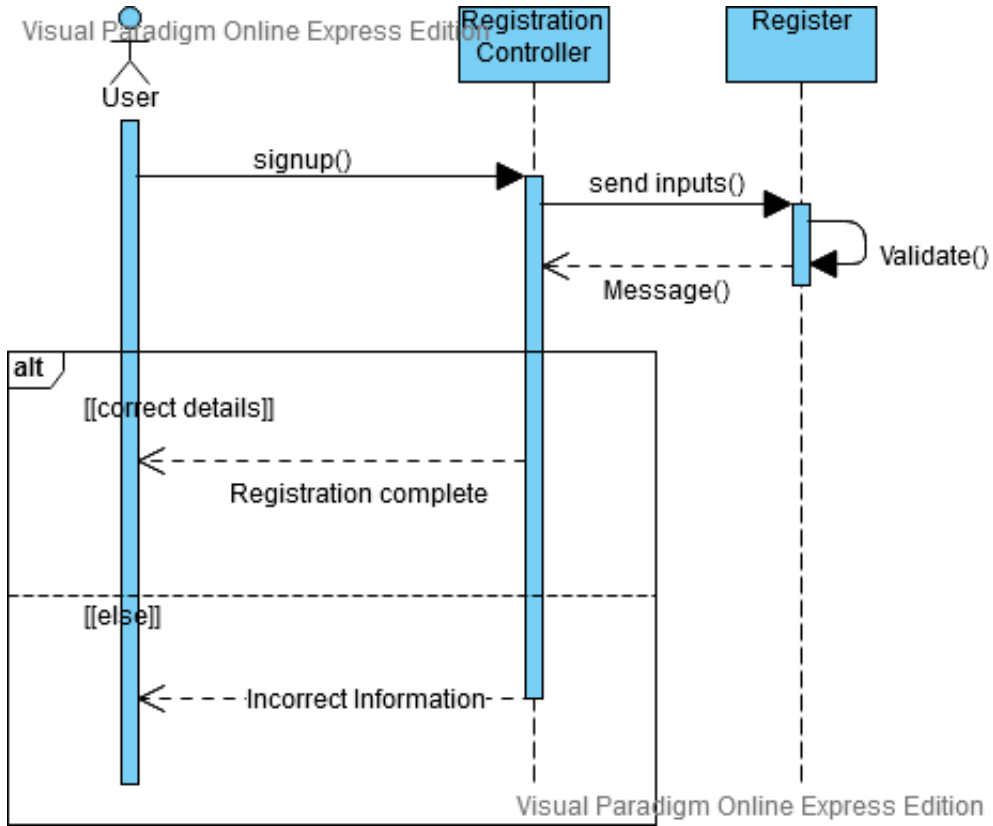


Figure 3.7.1: UC-1: Registration Sequence Diagram

UC-2: Login Sequence Diagram

Visual Paradigm Online Express Edition

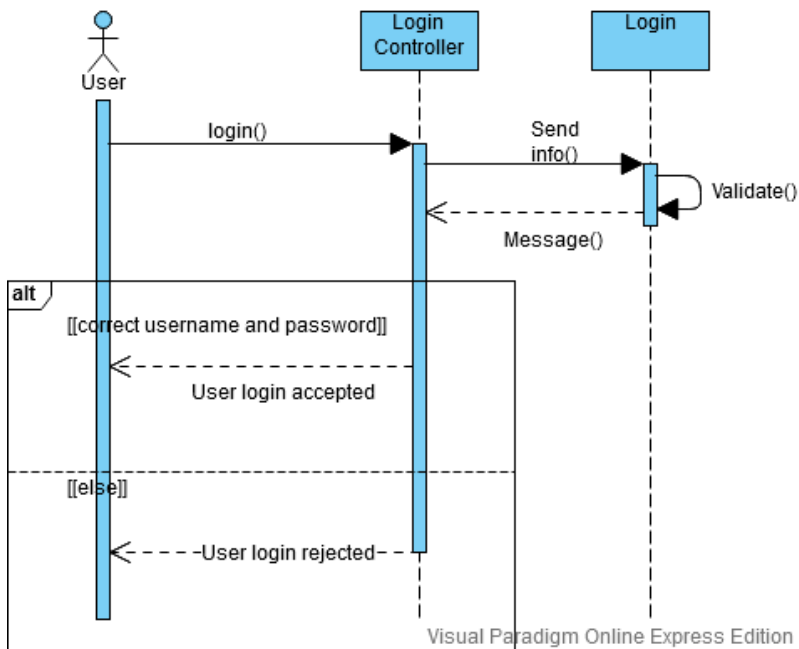


Figure 3.7.2: UC-2: Login Sequence Diagram

UC-3: Profile-own Sequence Diagram

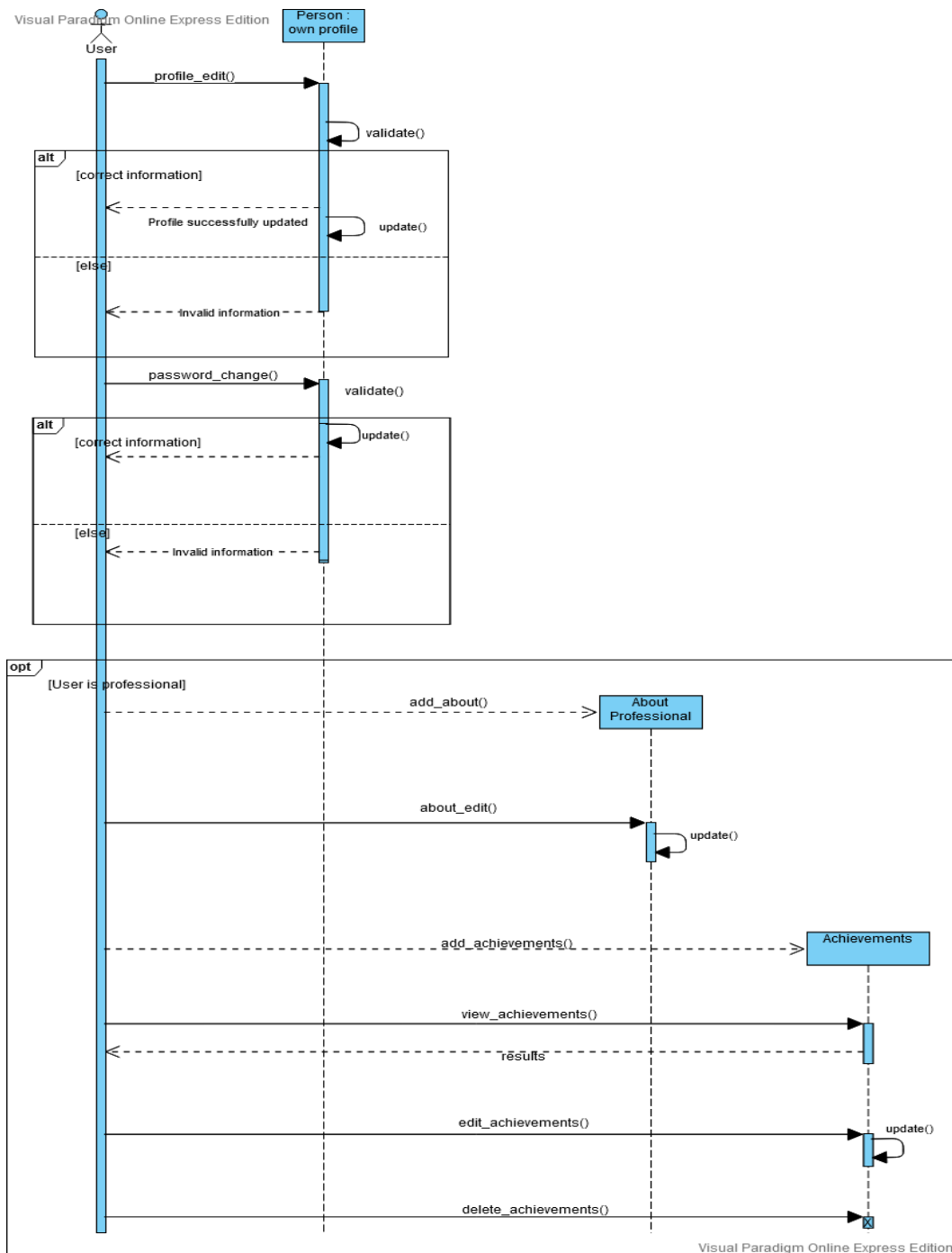


Figure 3.7.3: UC-3: Profile-own Sequence Diagram

UC-3: View professional profile Sequence Diagram

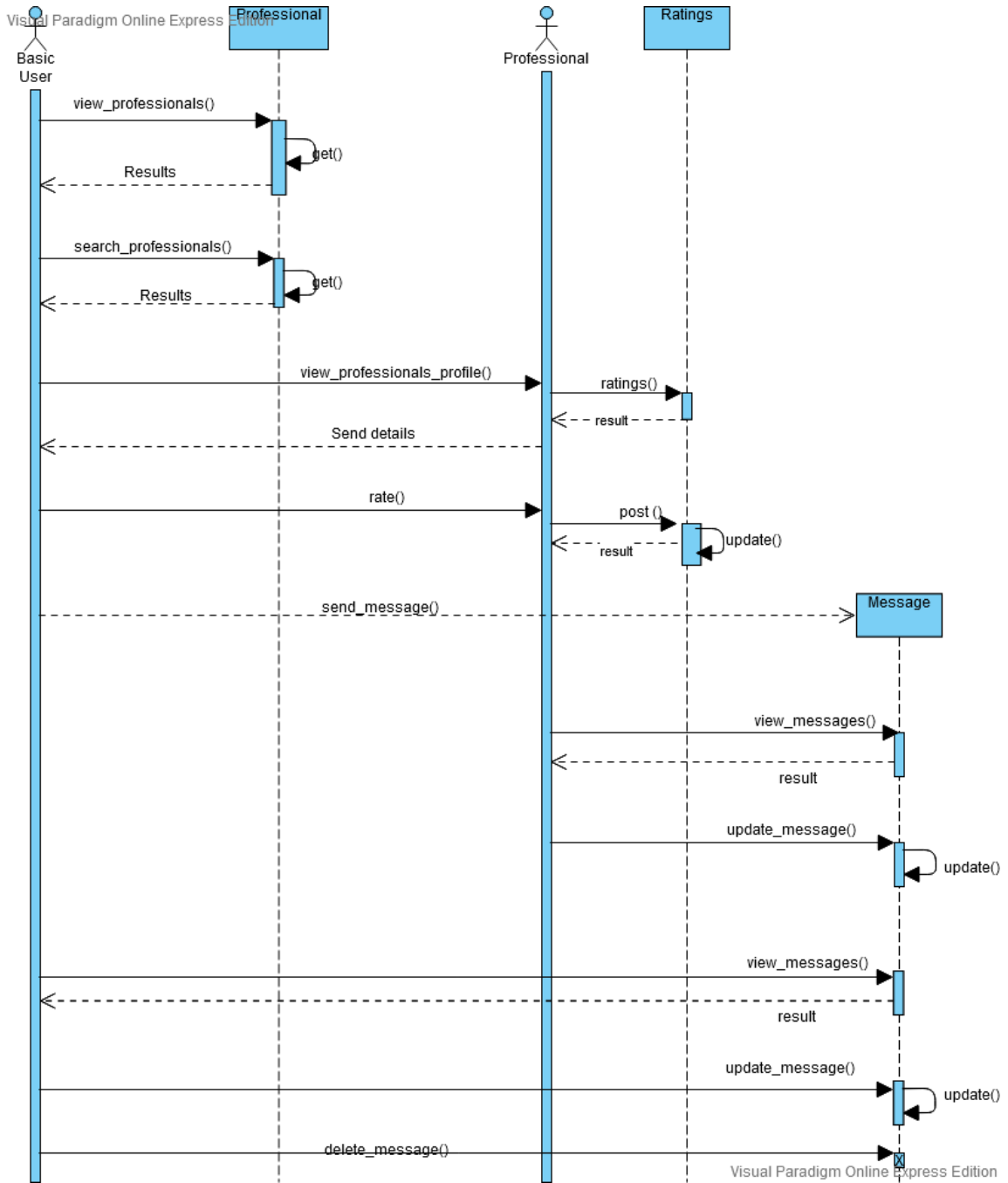


Figure 3.7.4: UC-3: View professional profile Sequence Diagram

UC-4: Appointment Schedule Sequence Diagram

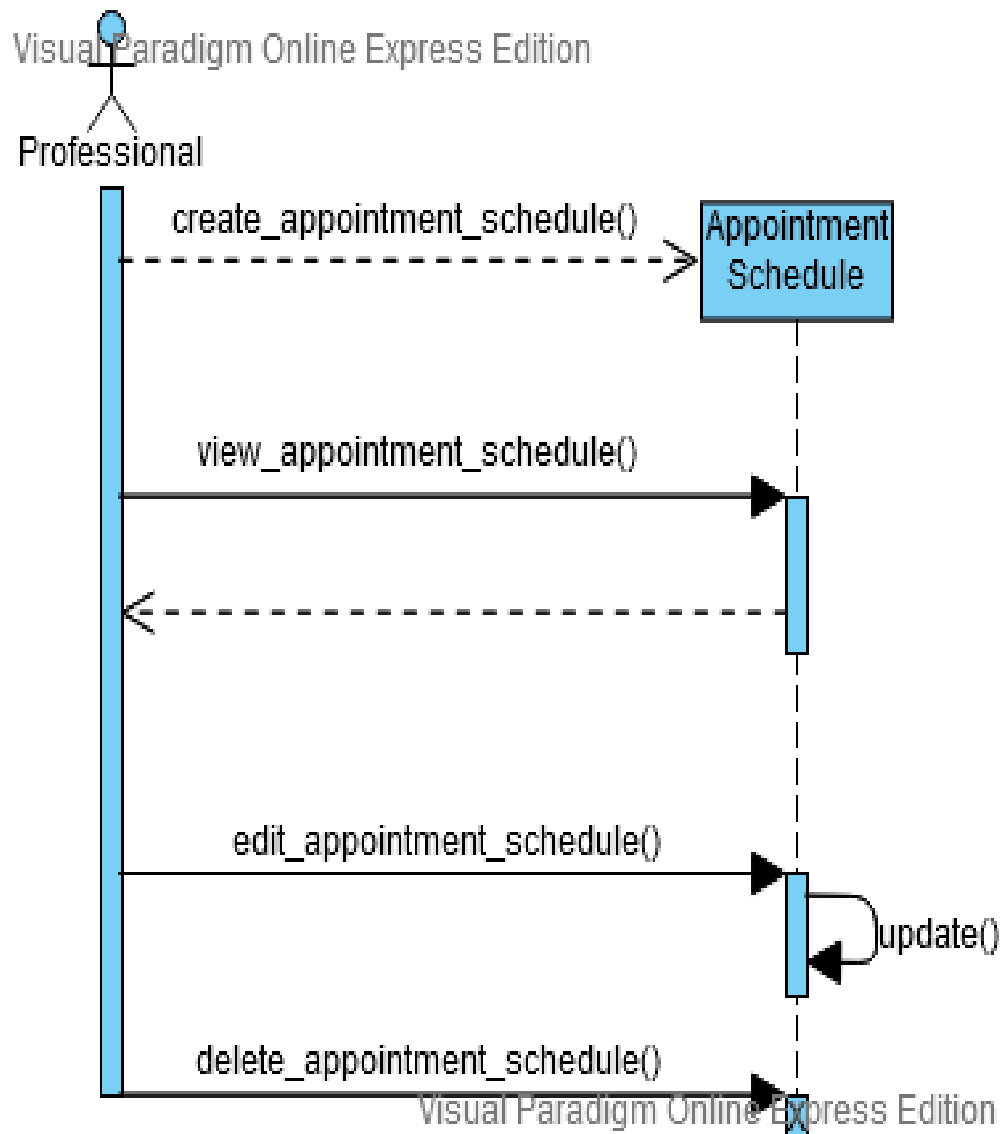


Figure 3.7.5: UC-4: Appointment Schedule Sequence Diagram

UC-5: Make Appointment Sequence Diagram

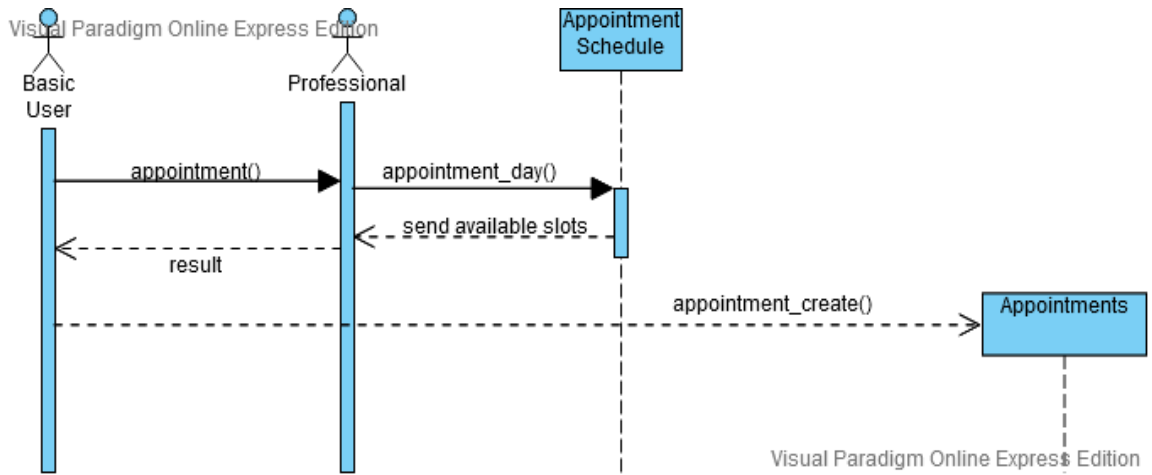


Figure 3.7.6: UC-5: Make Appointment Sequence Diagram

UC-6: View Appointments Sequence Diagram

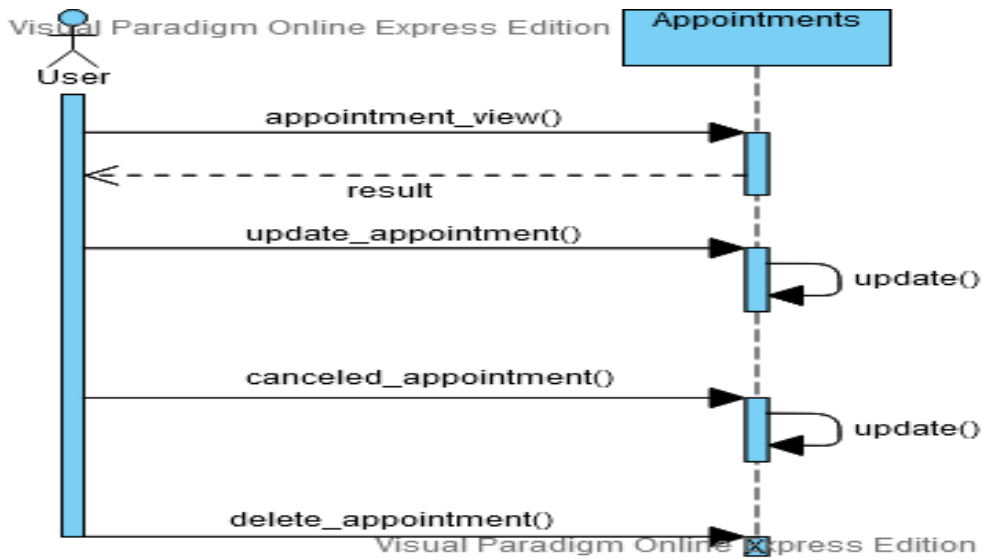


Figure 3.7.7: UC-6: View Appointments Sequence Diagram

UC-7: Chatroom Sequence Diagram

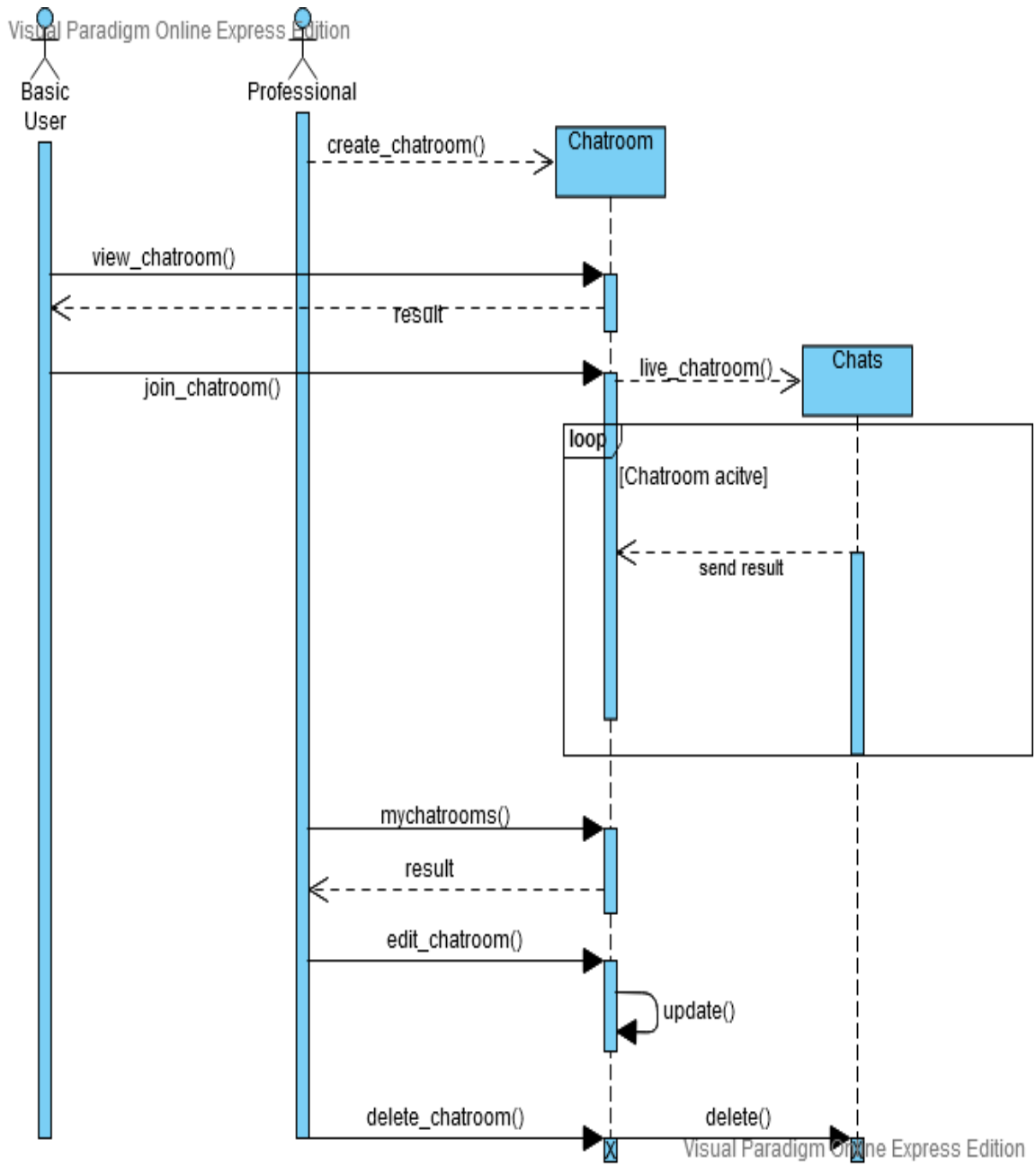


Figure 3.7.8: UC-7: Chatroom Sequence Diagram

UC-8: Calendar Sequence Diagram

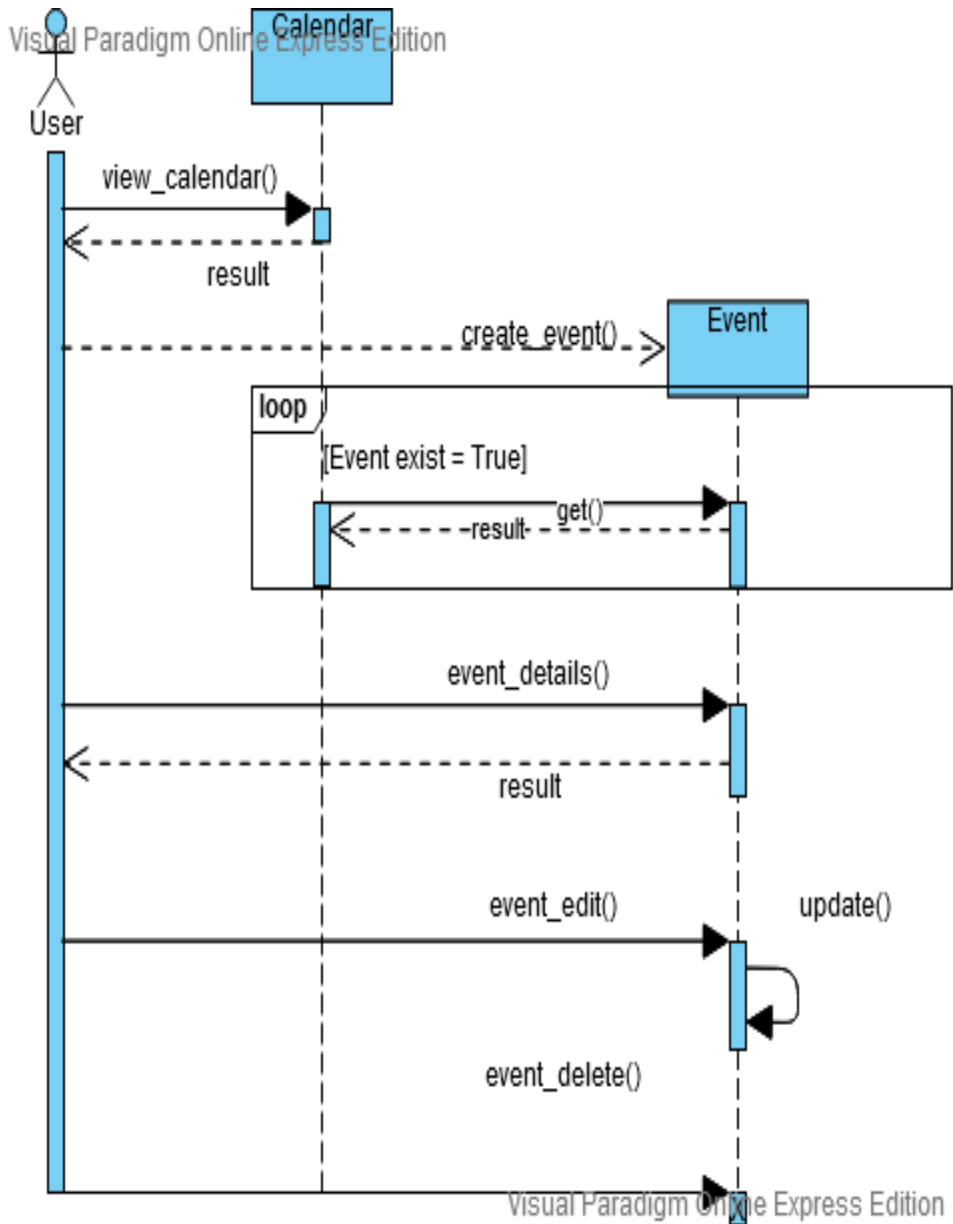


Figure 3.7.9: UC-8: Calendar Sequence Diagram

UC-9: Self Assessment Sequence Diagram

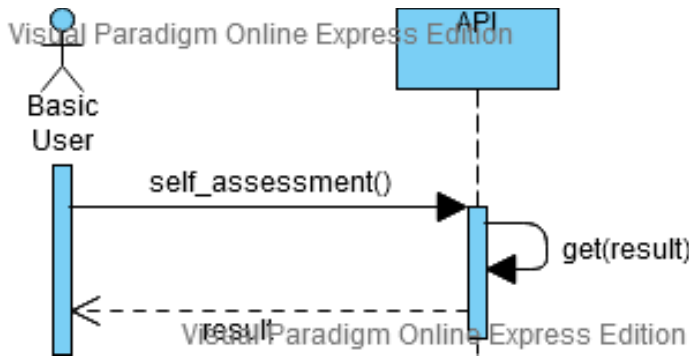


Figure 3.7.10: UC-9: Self Assessment Sequence Diagram

UC-10: Emergency Sequence Diagram

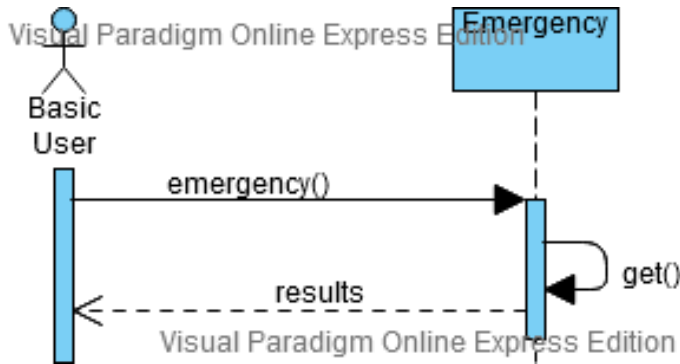


Figure 3.7.11: UC-10: Emergency Sequence Diagram

UC-11: News Sequence Diagram

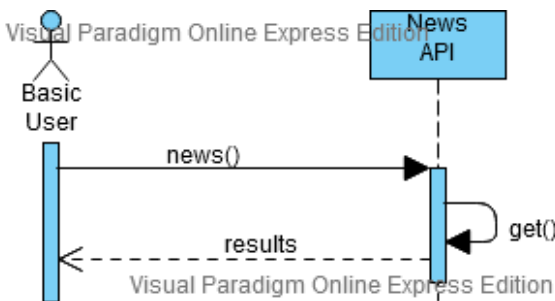


Figure 3.7.12: UC-11: News Sequence Diagram

UC-12: Report/Feedback Sequence Diagram

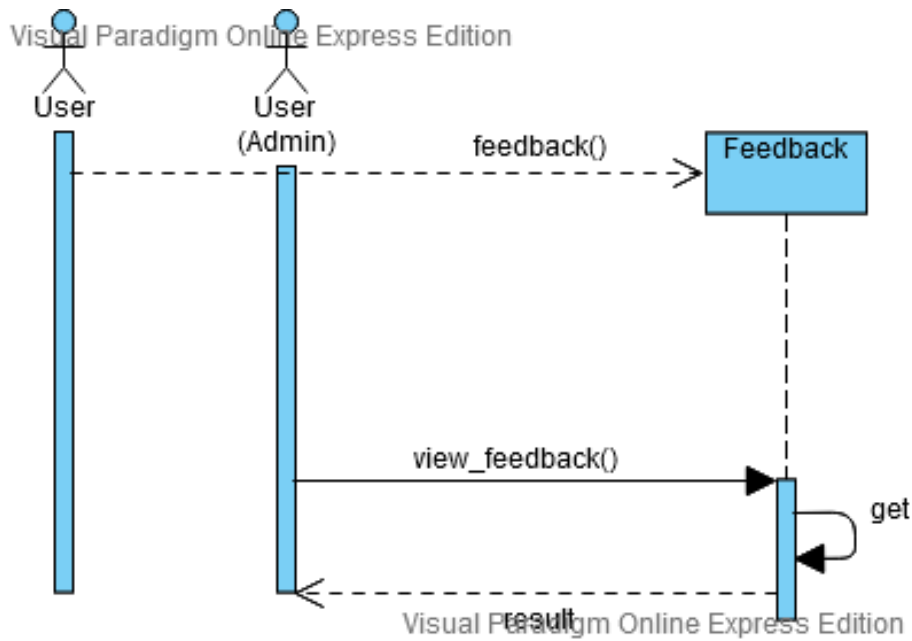


Figure 3.7.13: UC-12: Report/Feedback Sequence Diagram

3.9 Development of tools And Technology

3.9.1 User Interface Technology

- HTML5
- CSS3
- Bootstrap4
- JavaScript

3.9.2 Implementation Tools & Platforms

- Python 3.7
- Django 3.0
- PyCharm 2020.3.1(Community edition)
- Firefox Browser
- SQLite3

CHAPTER 4:SYSTEM TESTING

4.1 Introduction

Software testing is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding software bugs (errors or other defects). It involves the execution of a software component or system component to evaluate one or more properties of interest. In general, these properties indicate the extent to which the component or system under test:

- meets the requirements that guided its design and development,
- responds correctly to all kinds of inputs,
- performs its functions within an acceptable time,
- is sufficiently usable,
- can be installed and run in its intended environments, and
- Achieves the general result its stakeholder's desire.

4.2 Features to be tested

- i. Registration
- ii. Login
- iii. Appointment
- iv. Appointment Schedule
- v. Event
- vi. Chat

4.3 Testing Strategies

4.3.1 Testing Approach

- Testing of whole system will done step by step manually.

- Testing should not be planned under the tacit assumption that no errors will be found.
- Test for invalid and unexpected input conditions as well as valid conditions. The program should generate correct messages when an invalid test is encountered and should generate correct results when the test is valid.
- The probability of the existence of more errors in a module or group of modules is directly proportional to the number of errors already found.
- Testing is the process of executing software with the intent of finding errors.
- Keep software static during test. The program must not be modified during the implementation of the set of designed test cases.
- Document test cases and test results.
- Provide expected test results if possible. A necessary part of test documentation is the specification of expected results, even if providing such results is impractical.

4.3.2 Pass/Fail Criteria

1. Component Pass/Fail criteria –If the case meets the object design requirement the test will pass or fail if not.
2. Integration Pass/Fail criteria –If the case meets the object design architecture requirement the test will pass or fail if not

4.4 Testing Schedule

Table 4.4-1: Testing Schedule

Test Phase	Time
Test Plan Creation	1 weeks

Test Specification Creation	1 weeks
Test Specification Team Review	2 weeks
Component Testing	2 weeks
Integration Testing	3weeks
System Testing	4 weeks

4.55 Test case report :

A set of test inputs, execution condition and expected results developed for a particular objective such as to exercise a particular program path or to verify compliance with specific requirement .

Test Case 1

Table 4.5-1: Test Case 1

Test case ID: 1 System: Health Portal Designed and Executed by : Sajib Biswas	Test case name: Registration Subsystem: Registration Design Date: 12/07/14 Execution date:15/2/15
--	--

Table 4.5-2: Test Case 1(Registration)

Steps	Action	Expected system response	Pass/Fail	comment
1	When a user fills up only Name field and clicks the login	Other fields are required	pass	RESPONSIVE
2	When a user clicks only register button without a fill-up any field	Fill up the Required field	pass	RESPONSIVE
3	When a user enters email like aaa.com	Fill up the previous Required field	pass	RESPONSIVE
4	When a user enters valid info	Registration successful	pass	RESPONSIVE

Test Case 2

Table 4.5-3: Test Case 2

Test case ID: 2 System: Health Portal Designed and Executed by : Sajib Biswas	Test case name: Login Subsystem: Login Design Date: 12/07/14 Execution date:15/2/15
--	--

Table 4.5-4: Test Case 2 (Login)

Steps	Action	Expected system response	Pass/Fail	comment
1	When a user fills up only Username field and clicks the login	Other fields are required	pass	RESPONSIVE
2	When a user clicks only login button without a fill-up any field	Fill up the Required field	pass	RESPONSIVE
3	When a user enters wrong	Please enter a correct	pass	RESP

	password	username and password. Note that both fields may be case-sensitive.		ONSITIVE
4	When a user enters valid info	Login successful	pass	RESPONSIVE

Test Case 3

Table 4.5-5: Test Case 3

Test case ID: 3 System: Health Portal Designed and Executed by : Sajib Biswas	Test case name: Appointment Subsystem: Appointment Design Date: 12/07/14 Execution date:15/2/15
--	--

Table 4.5-6: Test Case 3 (Appointment)

Steps	Action	Expected system response	Pass/Fail	comment
1	When a user select wrong date	No slots are available	pass	RESPONSIVE
2	When all slots booked for a certain date	Booked slot won't be shown.	pass	RESPONSIVE
3	When a user enters details and click booked appointment.	Appointment successfully booked.	pass	RESPONSIVE
4	When a user click view appointment	All available user appointment will be shown.	pass	RESPONSIVE

Test Case 4

Table 4.5-7: Test Case 4

Test case ID: 4 System: Health Portal Designed and Executed by : Sajib Biswas	Test case name: Appointment Schedule Subsystem: Appointment Schedule Design Date: 12/07/14 Execution date:15/2/15
--	--

Table 4.5-8: Test Case 4 (Appointment Schedule)

Steps	Action	Expected system response	Pass/Fail	comment
1	When a schedule time clash with start time and end time	Start Time must be earlier than the End Time!!	pass	RESPONSIVE
2	When a schedule time clash with other schedule's time	Start Time/ End Time clash with other schedule!!	pass	RESPONSIVE
3	When a user enters correct input.	Appointment schedule successfully added.	pass	RESPONSIVE
4	When a user click view appointment schedule	All available user appointment schedule will be shown.	pass	RESPONSIVE

Test Case 5

Table 4.5-9: Test Case 5

Test case ID: 5 System: Health Portal Designed and Executed by : Sajib Biswas	Test case name: Event Subsystem: Event Design Date: 12/07/14 Execution date:15/2/15
--	--

Table 4.5-10: Test Case 5 (Event)

Steps	Action	Expected system response	Pass/Fail	comment
1	When a event time clash with start time and end time	Start Time must be earlier than the End Time!!	pass	RESPONSIVE
2	When a event time clash with other schedule's time	Start Time/ End Time clash with other schedule!!	pass	RESPONSIVE
3	When a user enters correct input.	Event successfully added.	pass	RESPONSIVE
4	When a user click view Calendar	All available user events will be shown.	pass	RESPONSIVE

Test Case 6

Table 4.5-11: Test Case 6

Test case ID: 6 System: Health Portal Designed and Executed by : Sajib Biswas	Test case name: Chat Subsystem: Chat Design Date: 12/07/14 Execution date:15/2/15
--	--

Table 4.5-12: Test Case 6 (Chat)

Steps	Action	Expected system response	Pass/Fail	comment
1	When user try to join private chat room	Enter password	pass	RESPONSIVE
2	When user enter wrong password.	Wrong Password!	pass	RESPONSIVE
3	When a user try to join anonymous supported chat room.	Join chatroom as yourself or anonymous.	pass	RESPONSIVE

4	When a user join chatroom	All available chats will be shown.	pass	RESP ONSI VE
5	When a user chat	All available chats will be shown.	pass	RESP ONSI VE

CHAPTER 5:USER MANUAL

5.1 User Manual

Home Page: When user not logged in.

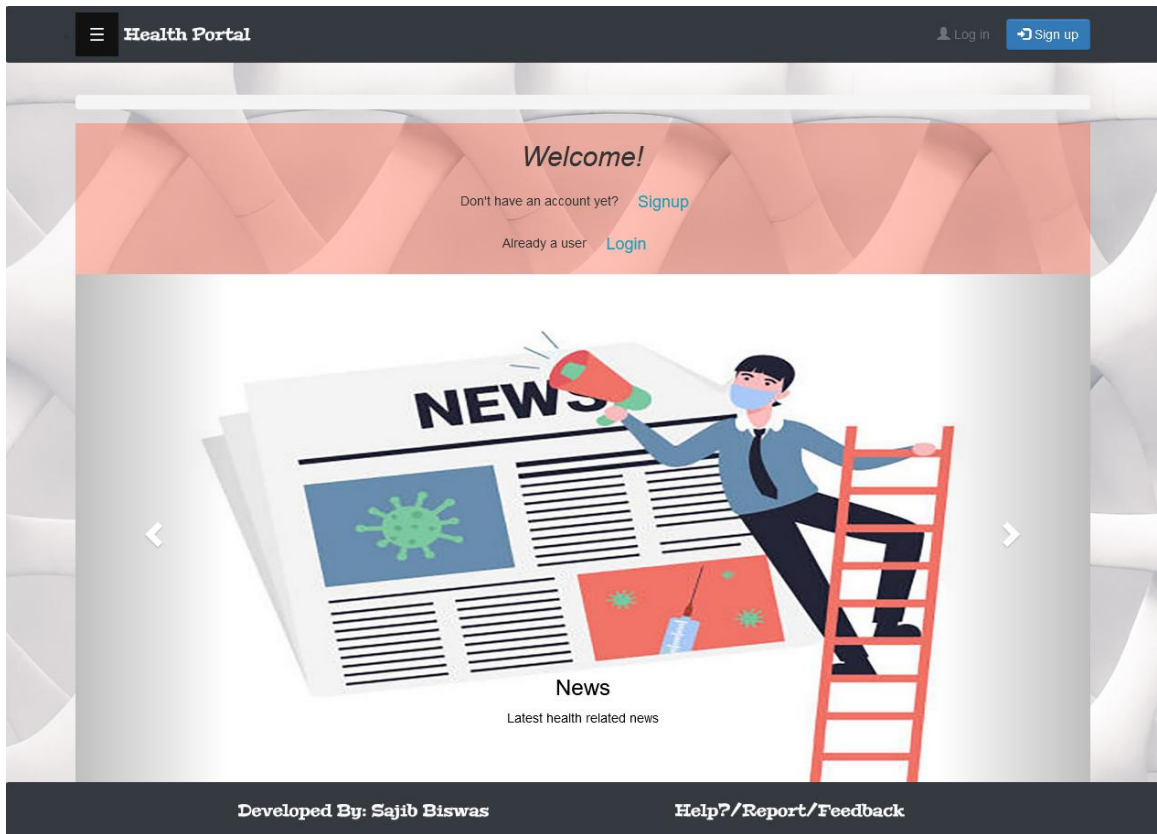


Figure 5.1.1: Home page

Click Login to log in or Signup for registration.

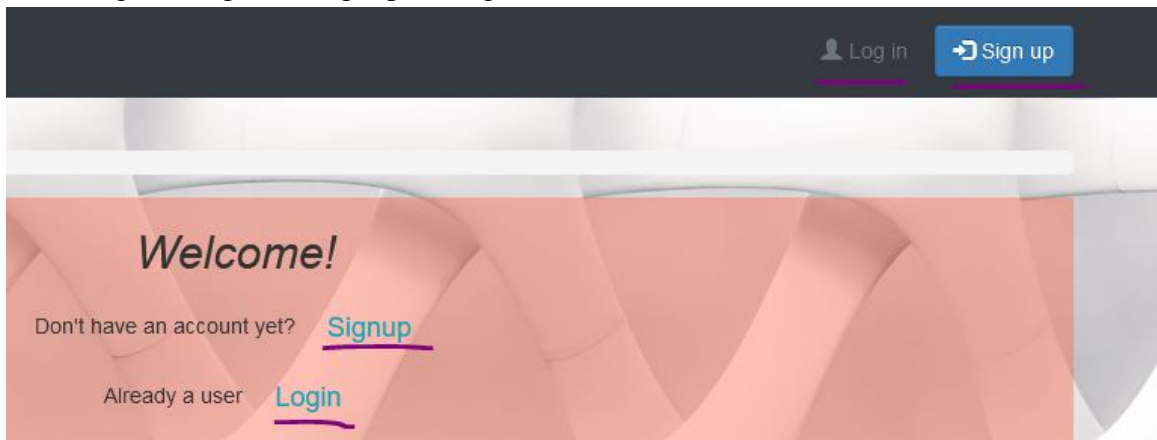


Figure 5.1.2: log in or Signup

To registration chose account type.

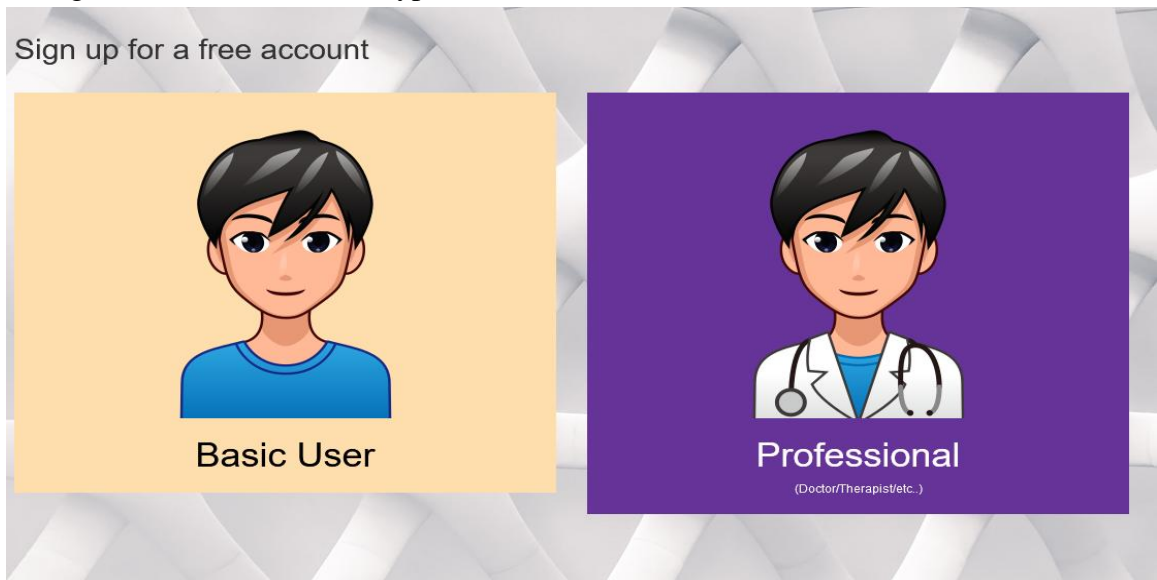


Figure 5.1.3: registration type

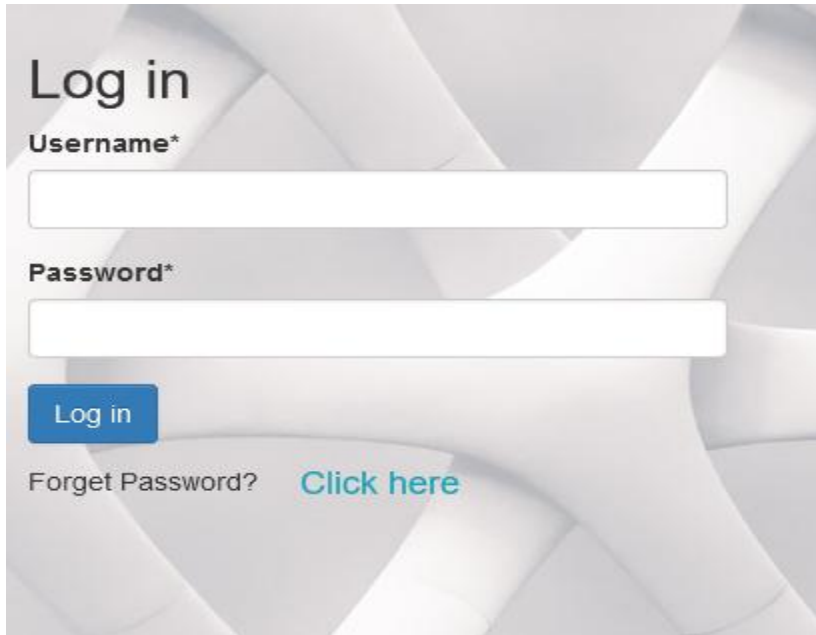
Enter required details and sign up

The image shows a registration form titled "Sign up as a basic user". The form contains the following fields and elements:

- Username***: A text input field with a note below it: "Required. 150 characters or fewer. Letters, digits and @/!/+/_ only."
- First name**: A text input field.
- Last name**: A text input field.
- Email address**: A text input field.
- Phone number***: A text input field.
- Gender***: A dropdown menu.
- Date of birth***: A text input field with a placeholder "mm / dd / yyyy".
- Profile pic***: A "Browse..." button and the text "No file selected."
- Address***: A text input field.
- Password***: A text input field with a list of password requirements:
 - Your password can't be too similar to your other personal information.
 - Your password must contain at least 8 characters.
 - Your password can't be a commonly used password.
 - Your password can't be entirely numeric.
- Password confirmation***: A text input field with a note below it: "Enter the same password as before, for verification."
- A green "Sign up" button at the bottom left.

Figure 5.1.4: registration

Enter user name and password to login. Use forget password option to reset password.



Log in

Username*

Password*

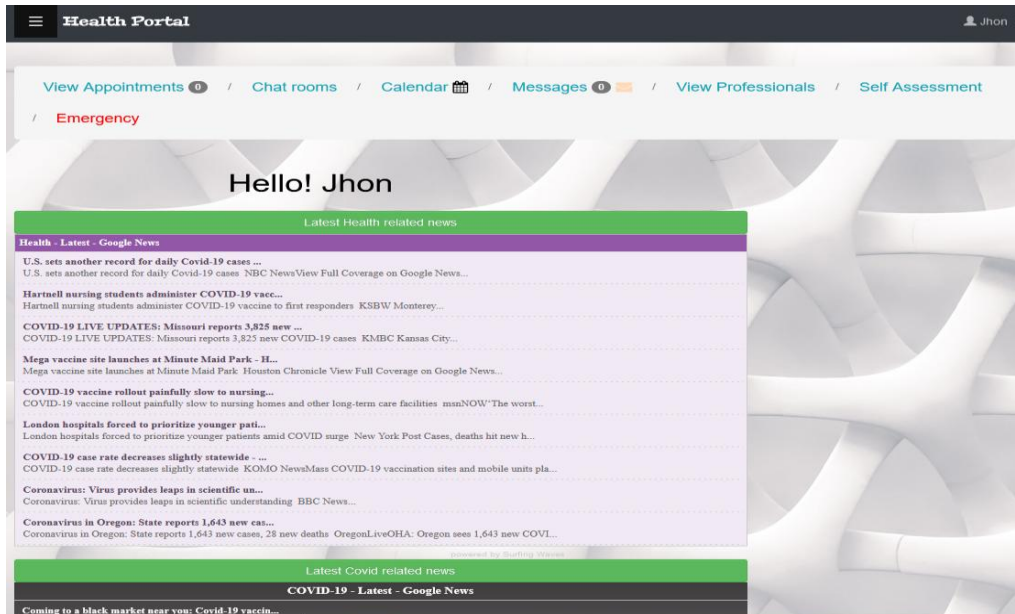
Log in

Forget Password? [Click here](#)

Figure 5.1.5: log in

5.2 User Manual (Basic User)

Home page for basic user.



Health Portal

View Appointments / Chat rooms / Calendar / Messages / View Professionals / Self Assessment

Emergency

Hello! Jhon

Latest Health related news

Health - Latest - Google News

U.S. sets another record for daily Covid-19 cases ...
U.S. sets another record for daily Covid-19 cases - NBC NewsView Full Coverage on Google News...

Hartnell nursing students administer COVID-19 vacc...
Hartnell nursing students administer COVID-19 vaccine to first responders KSBW Monterey...

COVID-19 LIVE UPDATES: Missouri reports 3,825 new ...
COVID-19 LIVE UPDATES: Missouri reports 3,825 new COVID-19 cases KMBC Kansas City...

Mega vaccine site launches at Minute Maid Park - JL...
Mega vaccine site launches at Minute Maid Park Houston Chronicle View Full Coverage on Google News...

COVID-19 vaccine rollout painfully slow to nursing...
COVID-19 vaccine rollout painfully slow to nursing homes and other long-term care facilities msnNOW The worst...

London hospitals forced to prioritize younger pati...
London hospitals forced to prioritize younger patients amid COVID surge New York Post Cases, deaths hit new h...

COVID-19 case rate decreases slightly statewide - ...
COVID-19 case rate decreases slightly statewide KOMO NewsMass COVID-19 vaccination sites and mobile units pla...

Coronavirus: Virus provides leaps in scientific un...
Coronavirus: Virus provides leaps in scientific understanding BBC News...

Coronavirus in Oregon: State reports 1,643 new cas...
Coronavirus in Oregon: State reports 1,643 new cases, 28 new deaths OregonLiveOHA: Oregon sees 1,643 new COVL...

Latest Covid related news

COVID-19 - Latest - Google News

Coming to a black market near you: Covid-19 vaccin...

Figure 5.2.1: Home page (basic user)

This dropdown menu will guide to profile page, change password and logout

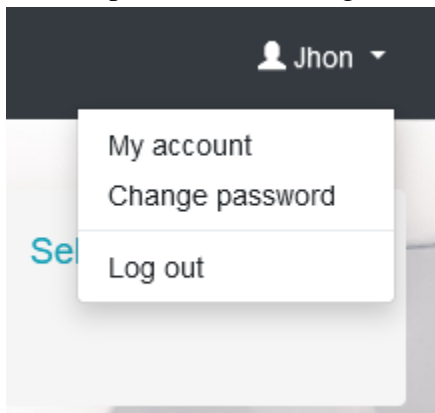


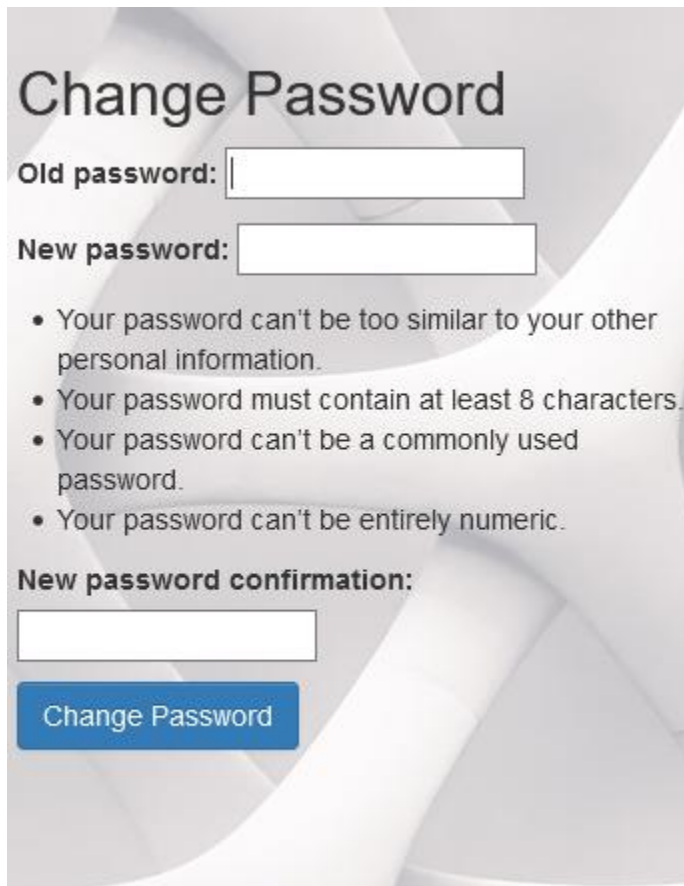
Figure 5.2.2: dropdown

Profile page



Figure 5.2.3: Profile page

Change Password



Change Password

Old password:

New password:

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

New password confirmation:

[Change Password](#)

Figure 5.2.4: Change Password

This  will open side nav bar.

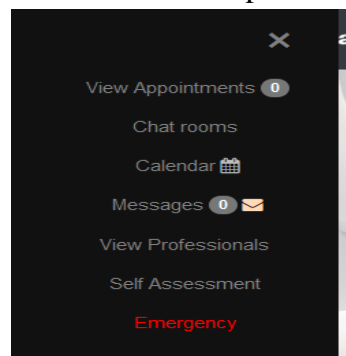


Figure 5.2.5: Side navbar

View Professionals

Will show all registered professionals within this system.

Search Professionals by professions

Username contains: First name contains:






Username	Profile Pic	Name	Profession	Speciality
James		James Barnet	Physician	Cardiology
Haris		Haris Boar	Physician	Family Medicine
Morgan		Morgan Freeman	Psychologist	Personality Psychologists
Lina		Lina Gomej	Physician	Urology
				

Figure 5.2.6: view professional

Click on the username to view professional's details

Visiting James / [Home](#) / [Back](#) / [Send Message](#) / [Make appointment](#)

James

Rating 4.6/5 Raters: 5

[Appointment Schedule](#)
[Rate](#)
[Reviews](#)

About James

I am a physician . I did
and...
also.
.....

Achievements

degree
from here in year

another one
got this for completing this at here in that year

Figure 5.2.7: professional details

Appointment schedule's of current professional's

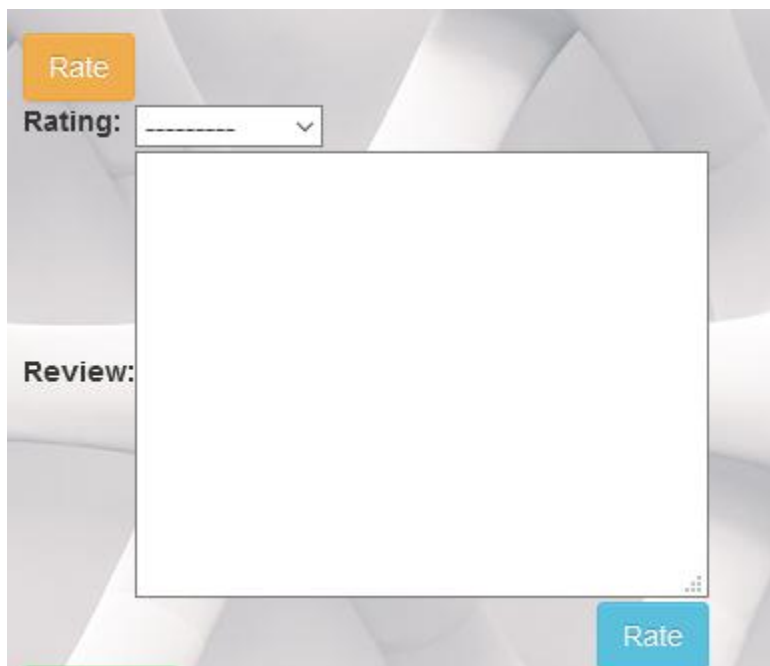


The image shows a screenshot of an appointment schedule interface. At the top left, there is a blue button labeled "Appointment Schedule". Below it is a table with three columns: "Start Time" and "End Time". The rows represent different days of the week: Sunday, Monday, Tuesday, Thursday, and Friday. Each row contains two time slots with their respective start and end times.

	Start Time	End Time
Sunday	2:02 p.m.	3:05 p.m.
	2 p.m.	4 p.m.
Monday	4:01 p.m.	6 p.m.
	10 p.m.	11:59 p.m.
Tuesday	11 a.m.	1 p.m.
Thursday	5 p.m.	7 p.m.
Friday	2 p.m.	3:59 p.m.

Figure 5.2.8: Appointment schedule's of professional's

Rate current professional



The image shows a screenshot of a "Rate" form. At the top left, there is an orange button labeled "Rate". Below it, the text "Rating:" is followed by a dropdown menu with a downward arrow. Below the dropdown menu is a large, empty white rectangular box. To the left of this box, the text "Review:" is visible. At the bottom right of the form, there is a blue button labeled "Rate".

Figure 5.2.9: Rate

Reviews of current professional's

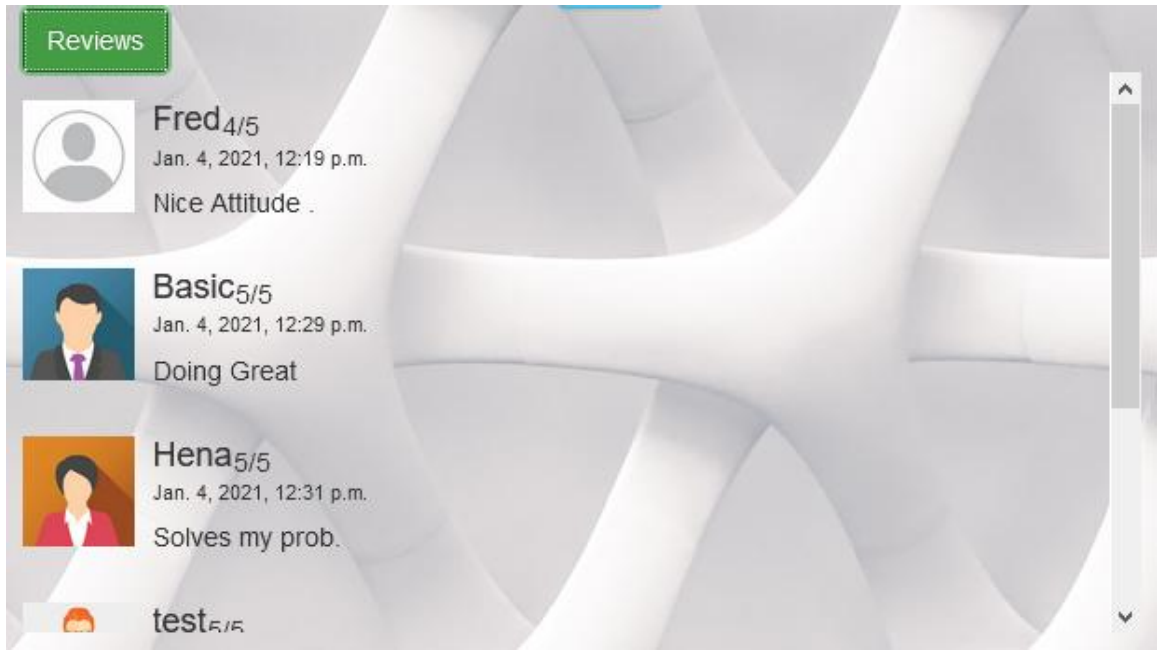


Figure 5.2.10: Reviews



Figure 5.2.11: send message

Make appointment

to current professional

Select date

Home Back

Appointment to James

Date:

Choose

Date :

Available Slots

Choose Slot

Weekly slots

	Start Time	End Time
Sunday	2:02 p.m.	3:05 p.m.
Monday	2 p.m.	4 p.m.
Tuesday	4:01 p.m.	6 p.m.
Thursday	10 p.m.	11:59 p.m.
Friday	11 a.m.	1 p.m.
Friday	5 p.m.	7 p.m.
Friday	2 p.m.	3:59 p.m.

Figure 5.2.12: make appointment date

Select slot

Appointment to James

Date:

Choose

Date : 2021-02-01 Monday

Available Slots

- 2 p.m.-4 p.m.
- 4:01 p.m.-6 p.m.
- 10 p.m.-11:59 p.m.

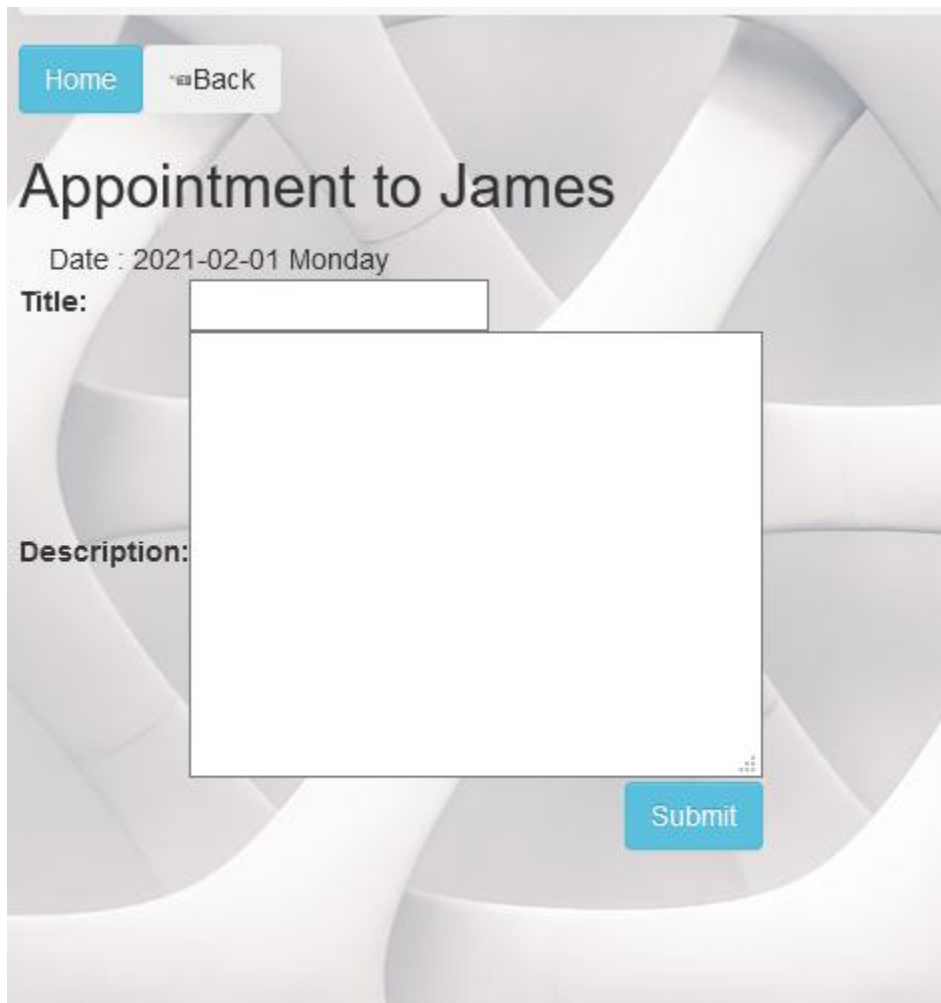
Choose Slot

Weekly slots

	Start Time	End Time
Sunday	2:02 p.m.	3:05 p.m.
Monday	2 p.m.	4 p.m.
Monday	4:01 p.m.	6 p.m.
Tuesday	10 p.m.	11:59 p.m.
Tuesday	11 a.m.	1 p.m.
Thursday	5 p.m.	7 p.m.
Friday	2 p.m.	3:59 p.m.

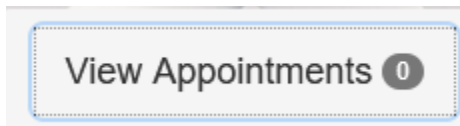
Figure 5.2.13: Make Appointment slots

Enter details



The screenshot shows a web interface for creating an appointment. At the top left, there are two buttons: 'Home' (blue) and 'Back' (grey). The main heading is 'Appointment to James'. Below it, the date is set to '2021-02-01 Monday'. There are two input fields: 'Title:' with a small text box, and 'Description:' with a larger text area. A blue 'Submit' button is located at the bottom right of the form area. The background features a faint, abstract geometric pattern.

Figure 5.2.14: Make Appointment



to view all thyself appointments

Hello, Jhon !

Here is your Appointment for today, Jan. 10, 2021 :

Specialist	Title	Time	Status	Action
James	manual	10 p.m.-11:59 p.m.	Pending	✓ ✗ 🗑️

Your Other Appointments:

Specialist	Title	Date	Time	Status	Action
James	manual	Feb. 1, 2021	10 p.m.-11:59 p.m.	Pending	✓ ✗ 🗑️

Figure 5.2.15: view appointment (basic user)

Chat rooms

to see all available chat rooms

Chatrooms / [Home](#)

Is private: Title contains: Creator: Is anonymous supported:

Title	Description	Anonymous Supported	Status	Creator
Free for All	Chat whatever you feel, share your experience with others.	✗	🔒	admin
Say no to drug	Say no to drug.	✗	🔒	admin

Figure 5.2.16: Chat rooms

Enter password to join private chat room.

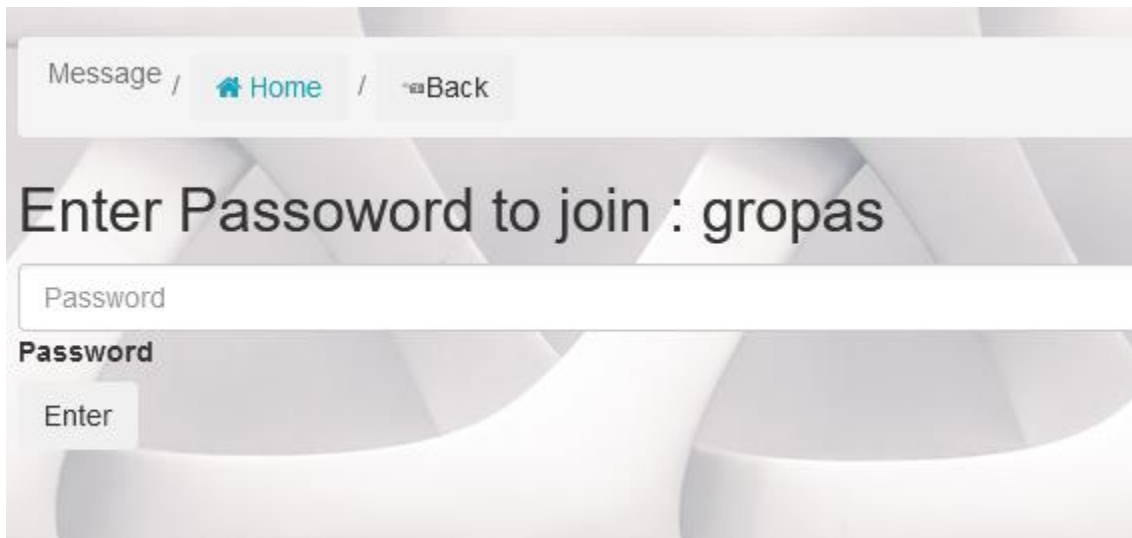


Figure 5.2.17: private chat room

Join option if chat room is anonymous supported.



Figure 5.2.18: anonymous chat room

Chat with others

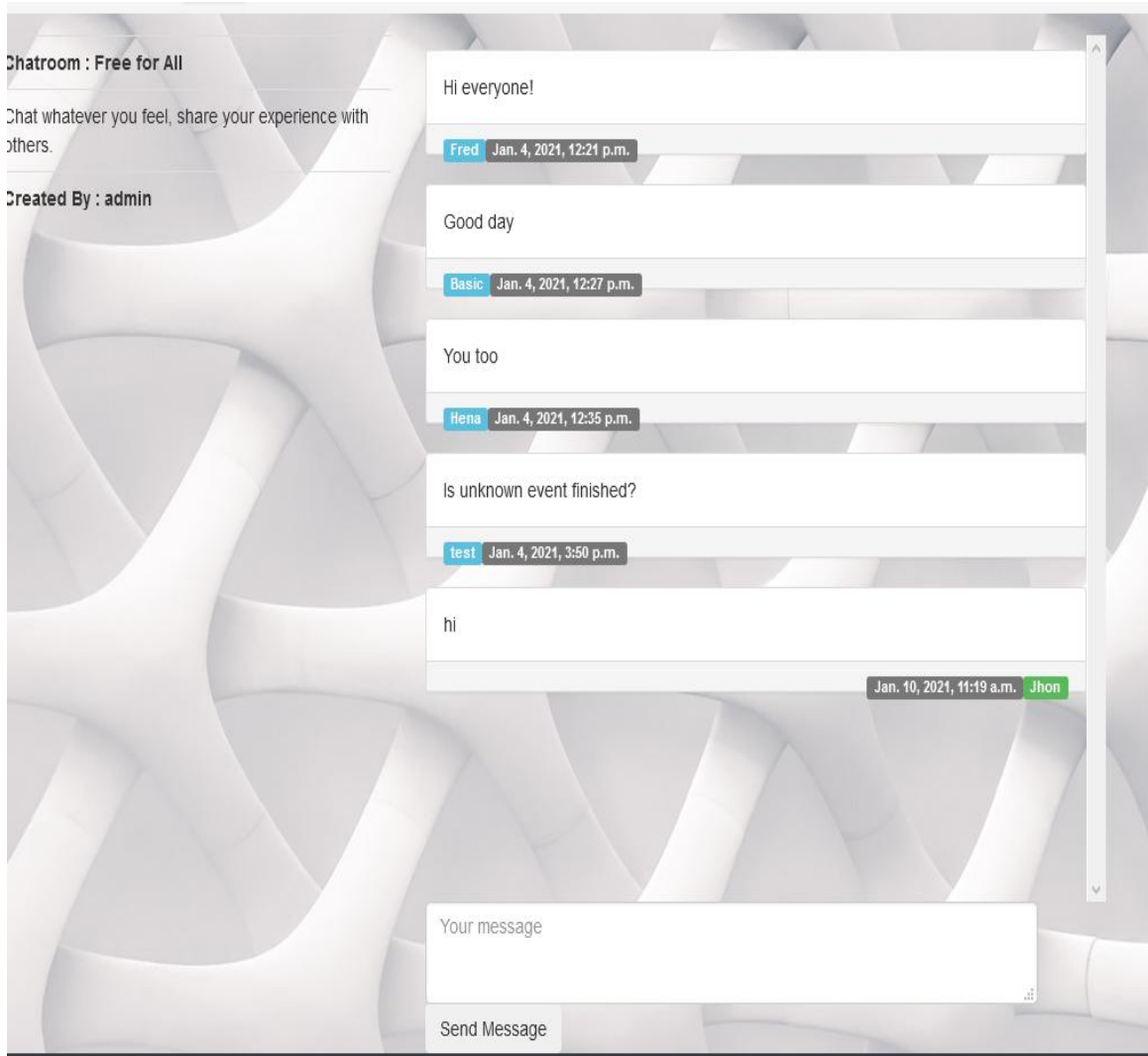



Figure 5.2.19: chats

Calendar  to manage events

Hello, Jhon + New Event << Previous Month Next Month >>

Developed By: Sajib Biswas Help?/Report/Feedback

January 2021						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
				1	2 • dfa ✔ • 223 ✘	3
4 • 43 ↻	5	6	7 • loas ✔	8	9	10
11	12	13	14	15	16	17

Figure 5.2.20: Calendar



to add new event.

Calendar

Title:

Description:

Start time:

End time:

Status: ▾

Figure 5.2.21: add event

View event



Figure 5.2.22: view event

Self Assessment

to view available assessment

Physical assessments

Self Assessment / [Home](#)

Self Assessment

Available Assessment

search for available Assessment

Physical Mental

Physical

ID	Name	Details	Action
SA001	BMI	Calculate Your Body Mass Index	Start
BP01	Your blood pressure	Use this tool to enter your blood pressure reading and find out what it means, along with information on how to reduce a high reading.	Start
CDCCSC	Coronavirus Self-Checker	The Coronavirus Self-Checker is an interactive clinical assessment tool that will assist individuals ages 13 and older, and parents and caregivers of children ages 2 to 12 on deciding when to seek testing or medical care if they suspect they or someone they know has contracted COVID-19 or has come into close contact with someone who has COVID-19. The online, mobile-friendly tool asks a series of questions, and based on the user's responses, provides recommended actions and resources.	Coronavirus Self-Checker
ht1	Do You Need a Hearing Test?	If you are 18 to 64 years old, the following questions will help you determine if you need to have your hearing tested by a health professional. Answer YES or NO.	Start
MLSA001	Mole self-assessment	Skin cancer is one of the most common cancers in the UK. Use this test to find out whether your mole needs to be checked by a healthcare professional.	Start
HPSA01	Heavy periods self-assessment	This short test will help you understand how heavy your periods are, and point you in the right direction for treatment options.	Start

Figure 5.2.23: Physical assessments

Mental assessments

The screenshot shows a web interface for 'Self Assessment'. Under the 'Available Assessment' section, there are two tabs: 'Physical' and 'Mental'. The 'Mental' tab is selected. Below the tabs, there is a table listing four mental assessments. Each row includes an ID, Name, Details, and an Action button labeled 'Start'.

ID	Name	Details	Action
MDSA001	Mood self-assessment	This self-assessment helps you better understand how you've been feeling over the last fortnight, and points you in the right direction for helpful advice and information on anxiety and depression.	Start
DSSA001	Depression self-assessment	This self-assessment will help you assess whether you could be suffering from depression, based on how you've been feeling over the last fortnight.	Start
HA001	Heart Age	The Heart Age Test tells you your heart age compared to your real age and explains why it's important to know your blood pressure and cholesterol numbers.	Start
MP001	Your Mind Plan	Your Mind plan helps you build a practical plan you can use to help maintain and improve your mental health and wellbeing. By answering this short quiz, the Every Mind Matters widget gives you 5 actions that can help you feel more in control, deal with stress and anxiety, boost your mood and improve your sleep.	Start

Figure 5.2.24: Mental assessments

Emergency to view available help

The screenshot shows a web interface for 'Emergency'. The page title is '999 emergency helpline for Bangladesh'. Under the 'Available services' section, there are three tabs: 'Ambulance', 'Doctor', and 'Hospital'. The 'Ambulance' tab is selected. Below the tabs, there is a table listing three ambulance services. Each row includes an ID, Name, Location, Phone no, and Status.

ID	Name	Location	Phone no	Status
a1	ambulance1	lane 1	0011	available
a2	ambulance2	lane 2	0012	available
a3	ambulance3	lane 3	0013	not available

Figure 5.2.25: Emergency

5.3 User Manual (Professional)

Home page for professional

The screenshot displays the 'Health Portal' interface for a professional user named James. At the top, there is a navigation bar with a menu icon and the text 'Health Portal'. Below this, a secondary navigation bar contains links for 'View Appointments 0', 'Chat rooms', 'Calendar', 'Messages 2', 'Appointment Schedules', and 'Achievements'. A red link for 'Emergency' is also present.

The main content area features a large greeting 'Hello! James' and a rating of '4.6/5' with '(5) Rating' below it. The page is divided into two main columns. The left column, titled 'Latest Health related news', contains a list of news items under the heading 'Health - Latest - Google News'. The right column, titled 'Reviews', displays a list of user reviews with profile pictures, names, ratings, dates, and comments.

Latest Health related news

- Health - Latest - Google News**
- Coronavirus peak: 1,029 patients in serious condit...**
Coronavirus peak: 1,029 patients in serious condition on day 3 of closure The Jerusalem PostCovid-19 ICU Pati...
- U.S. sets another record for daily Covid-19 cases ...**
U.S. sets another record for daily Covid-19 cases NBC NewsUS Covid-19 cases hit 22 million as scientists trac...
- Hartnell nursing students administer COVID-19 vacc...**
Hartnell nursing students administer COVID-19 vaccine to first responders KSBW Monterey...
- COVID-19 LIVE UPDATES: Missouri reports 3,825 new ...**
COVID-19 LIVE UPDATES: Missouri reports 3,825 new COVID-19 cases KMBC Kansas City...
- COVID-19 vaccine rollout painfully slow to nursing...**
COVID-19 vaccine rollout painfully slow to nursing homes and other long-term care facilities msnNOWThe worst...
- London hospitals forced to prioritize younger pati...**
London hospitals forced to prioritize younger patients amid COVID surge New York Post Cases, deaths hit new h...
- COVID-19 case rate decreases slightly statewide - ...**
COVID-19 case rate decreases slightly statewide KOMO NewsMass COVID-19 vaccination sites and mobile units pla...
- Coronavirus: Virus provides leaps in scientific un...**
Coronavirus: Virus provides leaps in scientific understanding BBC News...
- Coronavirus in Oregon: State reports 1,643 new cas...**
Coronavirus in Oregon: State reports 1,643 new cases, 28 new deaths OregonLiveOHA: Oregon sees 1,643 new COVI...

Reviews

- Fred** 4/5
Jan. 4, 2021, 12:19 p.m.
Nice Attitude .
- Basic** 5/5
Jan. 4, 2021, 12:29 p.m.
Doing Great
- Hena** 5/5
Jan. 4, 2021, 12:31 p.m.
Solves my prob.
- test** 5/5
Jan. 4, 2021, 3:48 p.m.
So far so good
- Anim** 4/5
Jan. 4, 2021, 7:02 p.m.
testing

Latest Covid related news

Figure 5.3.1: Home (professional)

View Appointments

to see all appointments of thyself.

Hello, James !

Here is your Appointment for today, Jan. 10, 2021 :

Client	Title	Time	Status	Action	
Fred	problem	Jan. 7, 2021	5 p.m.-7 p.m.	Pending	✓ ✕ 🗑️
Basic	app	Jan. 25, 2021	4.01 p.m.-6 p.m.	Canceled	🕒 🗑️
Hena	aa	Jan. 22, 2021	2 p.m.-3:59 p.m.	Pending	✓ ✕ 🗑️
Anim	nw	Jan. 18, 2021	2 p.m.-4 p.m.	Pending	✓ ✕ 🗑️
Jhon	manual	Feb. 1, 2021	10 p.m.-11:59 p.m.	Pending	✓ ✕ 🗑️

Your Other Appointments:

Client	Title	Date	Time	Status	Action
Fred	problem	Jan. 7, 2021	5 p.m.-7 p.m.	Pending	✓ ✕ 🗑️
Basic	app	Jan. 25, 2021	4.01 p.m.-6 p.m.	Canceled	🕒 🗑️
Hena	aa	Jan. 22, 2021	2 p.m.-3:59 p.m.	Pending	✓ ✕ 🗑️
Anim	nw	Jan. 18, 2021	2 p.m.-4 p.m.	Pending	✓ ✕ 🗑️
Jhon	manual	Feb. 1, 2021	10 p.m.-11:59 p.m.	Pending	✓ ✕ 🗑️

Figure 5.3.2: view appointment (professional)

Messages 2

to see incoming messages

Messages / [Home](#)

Sent from: Sent at: Mark as read: Search

From	Message Details	Send at	Action
Hena	Thanks for your service.	Jan. 4, 2021, 12:33 p.m.	Mark as read 🗑️
Anim	hi there i booked a slot	Jan. 4, 2021, 7:03 p.m.	Mark as read 🗑️

Figure 5.3.3: view messages

Appointment Schedules

to manage appointment schedule

Health Portal James

Appointment Schedule / Home

+New appointment schedule

	Start Time	End Time	Action
Sunday	2:02 p.m.	3:05 p.m.	
	2 p.m.	4 p.m.	
Monday	4:01 p.m.	6 p.m.	
	10 p.m.	11:59 p.m.	
Tuesday	11 a.m.	1 p.m.	
Thursday	5 p.m.	7 p.m.	
Friday	2 p.m.	3:59 p.m.	

Figure 5.3.4: appointment schedule

Achievements

to manage achievements

Achievements / Home

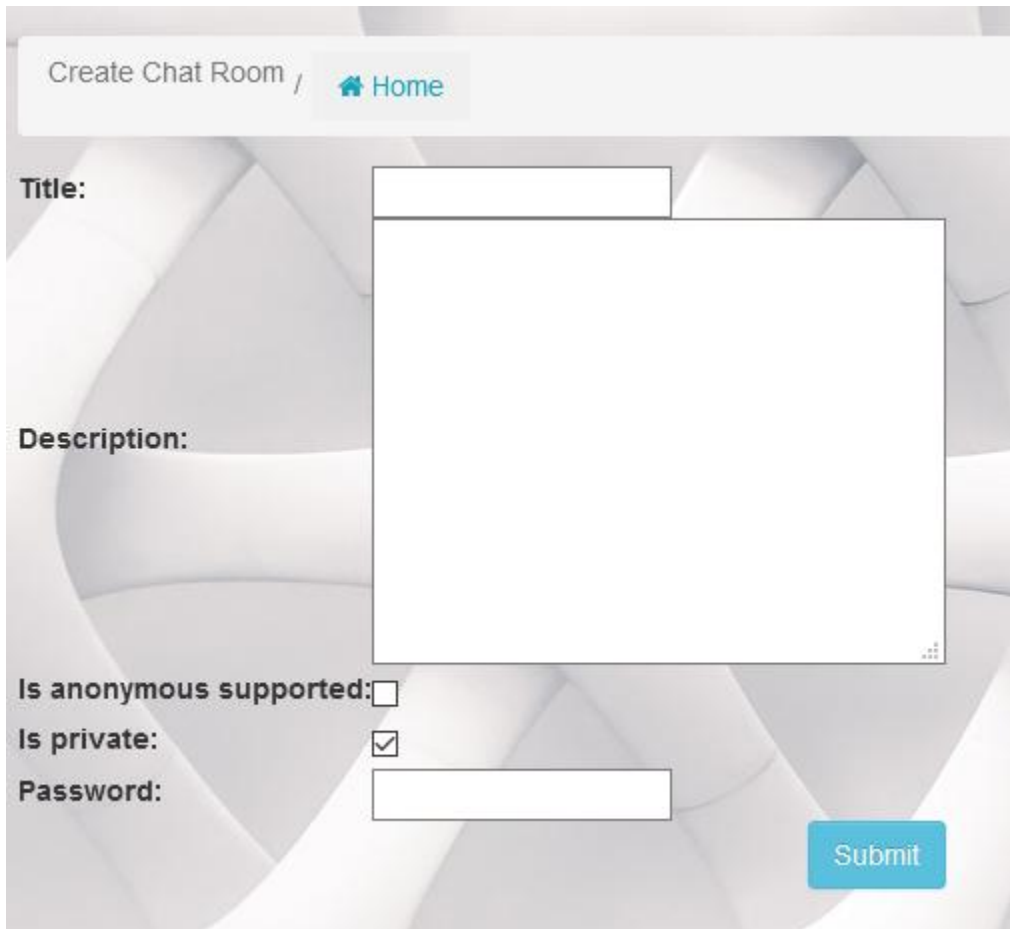
+New achievements

degree from here in year	
another one got this for completing this at here in that year	

Figure 5.3.5: achievements

[Create a new chat room](#)

to add a new chat room.



Create Chat Room / [Home](#)

Title:

Description:

Is anonymous supported:

Is private:

Password:

Figure 5.3.6: create chat room

In profile add or edit info/bio.

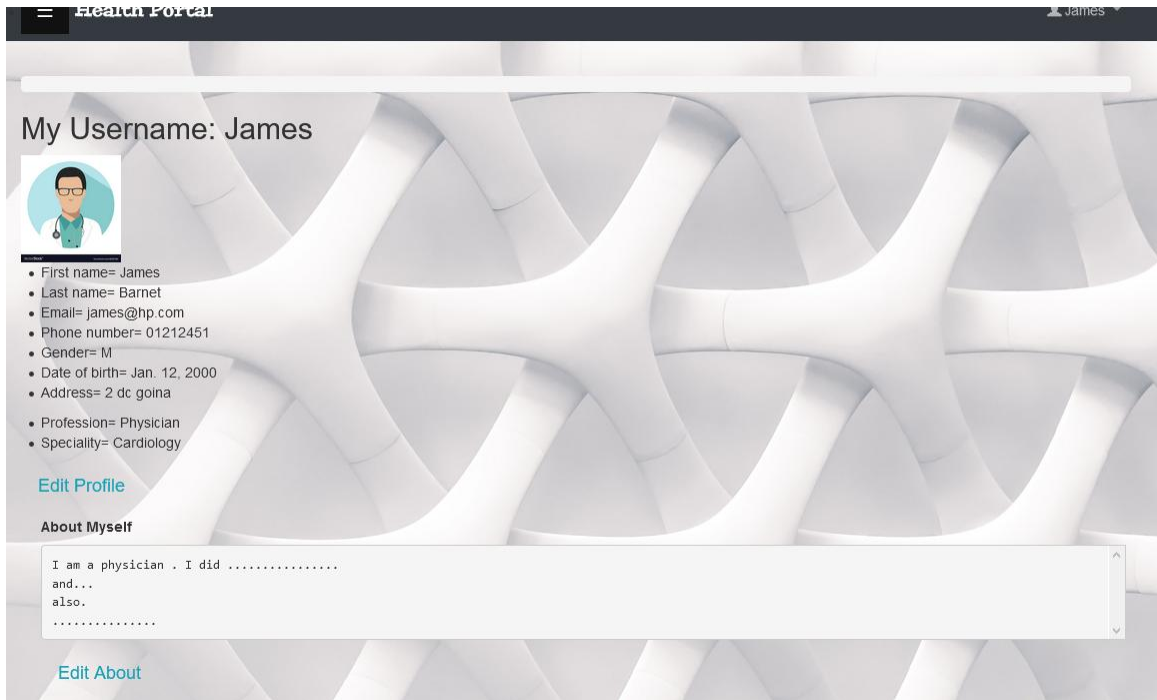


Figure 5.3.7: edit info

CHAPTER 6: CONCLUSION

6.1 GitHub Link

<https://github.com/Sajib1960/healthportal>

6.2 Project Limitations

Some of this project's limitations are listed below-

- Voice or video chat is unavailable
- Emergency option is not responsive as it lacks authentic host services.
- System required a dedicated server which is very costly.

6.3 Future Scope

In future following feature can be added-

- Voice and video chat.
- Emergency option will widen.
- More assessments.
- Daily medicine schedule
- Medical report management

6.4 Conclusion

There are many health care websites out there but in my current knowledge there aren't any websites which helps users to get help for both their mental and physical health. There are many websites for getting appointment of doctors and separate websites for therapist but all in 1 with easy to access like my proposed system won't be available in my current knowledge.

REFERENCES

1. Freitas, V. (2018, November 28). *Advanced Form Rendering with Django Crispy Forms*. Simple Is Better Than Complex.
<https://simpleisbetterthancomplex.com/tutorial/2018/11/28/advanced-form-rendering-with-django-crispy-forms.html>
2. Freitas, V. (2018a, January 18). *How to Implement Multiple User Types with Django*. Simple Is Better Than Complex.
<https://simpleisbetterthancomplex.com/tutorial/2018/01/18/how-to-implement-multiple-user-types-with-django.html>
3. GeeksforGeeks. (2019, December 31). *How to hide div element by default and show it on click using JavaScript and Bootstrap ?* <https://www.geeksforgeeks.org/how-to-hide-div-element-by-default-and-show-it-on-click-using-javascript-and-bootstrap/>
4. *NHS website developer portal*. (n.d.). NHS. <https://developer.api.nhs.uk/>
5. *Public Health Media Library*. (n.d.). Public Health Media Library.
<https://tools.cdc.gov/medialibrary/index.aspx#/additionalresources>
6. *The syndication feed framework | Django documentation | Django*. (n.d.). Djangoproject. <https://docs.djangoproject.com/en/3.1/ref/contrib/syndication/>
7. Telusko. (2019, June 6). *Django Tutorial for Beginners | Full Course*. YouTube.
<https://www.youtube.com/watch?v=OTmQOjsl0eg>

8. *W3Schools Online Web Tutorials*. (n.d.). W3Schools. <https://www.w3schools.com/>

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Similarity Index	Similarity by Source				
20%	Internet Sources: 18% Publications: 2% Student Papers: 13%				
<p>5% match (student papers from 28-Mar-2018) Class: Article 2018 Assignment: Journal Article Paper ID: 937594737</p>					
<p>3% match (Internet from 01-Apr-2020) https://www.slideshare.net/RaihanMahmud5/remote-doctor-project-report</p>					
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<p>1% match () http://hdl.handle.net/10092/1209</p>					
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<p>1% match (Internet from 18-Jan-2020) http://dspace.daffodilvarsity.edu.bd:8080/bitstream/handle/123456789/3523/P13624%20%2817%25%29.pdf?isAllowed=v&sequence=1</p>					
<p>1% match (Internet from 10-Nov-2020) http://dspace.daffodilvarsity.edu.bd:8080/bitstream/handle/123456789/3552/P13658%20%287%25%29.pdf?isAllowed=v&sequence=1</p>					
<p>1% match (Internet from 15-Nov-2020) http://transmountain.s3.amazonaws.com/application/V5C_TR_5C10_WILDLIFE_Part1.pdf</p>					
<p>1% match (Internet from 24-Feb-2020) http://dspace.daffodilvarsity.edu.bd:8080/bitstream/handle/123456789/3555/P13663%20%2821%25%29.pdf?isAllowed=v&sequence=1</p>					
<p>< 1% match (Internet from 06-Jan-2020) http://dspace.daffodilvarsity.edu.bd:8080/bitstream/handle/123456789/3547/P13646%20%2824%25%29.pdf?isAllowed=v&sequence=1</p>					
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A PROJECT REPORT ON DESIGN AND DEVELOPMENT FOR "HEALTH PORTAL" BY- SAJIB BISWAS ID: 171-35-1960 Department of Software Engineering, Faculty of Science and Information Technology, DAFFODIL INTERNATIONAL UNIVERSITY This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Software Engineering Supervised By: MS. FARZANA SADIA Lecturer (Senior Scale) Department of Software Engineering, Faculty of Science and Information Technology, DAFFODIL INTERNATIONAL UNIVERSITY Fall - 2020 Approval This Project titled "Health Portal", submitted by SAJIB BISWAS, ID: 171-35- 1960 to the Department of Software Engineering, DAFFODIL INTERNATIONAL UNIVERSITY has been accepted as satisfactory for the partial

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[fulfillment of the requirements for the degree of B.Sc. in Software Engineering and approved as to its style and contents.](#) ii [Declaration](#) I hereby declare that, this project has been done by us under the supervision of MS. FARZANA SADIA, Lecturer (Senior Scale), Department of SWE, DAFFODIL INTERNATIONAL UNIVERSITY. I also declare that this project is my original work for the degree of B.Sc. in Software Engineering and that neither this project nor any part of this project has been submitted elsewhere for award of any other degree or diploma. Submitted by: SAJIB BISWAS ID: 171-35-1960 Department of Software Engineering Faculty of Science and Information Technology DAFFODIL INTERNATIONAL UNIVERSITY. Supervised by: MS. FARZANA SADIA Lecturer (Senior Scale) Department of Software Engineering Faculty of Science and Information Technology DAFFODIL INTERNATIONAL UNIVERSITY. iii Acknowledgement "Success is to be measured not such a lot by the position that one has reached in life, however as by the obstacle that he has had to beat whereas making an attempt to succeed." In many ways it's, tougher to acknowledge one's however I specific my deep sense of feeling to every and each one whose support and co-operation helped me to complete this project with success, and while not this the completion of this project would ever are easier. I herewith take the pleasure of thanking my project adviser. I even have really benefited loads from the constructive critics and suggestions given by MS. FARZANA SADIA. I additionally would like to impart my parents continuously stand by me in my all choices and while not their support it had been out of the question on behalf of me to achieve at this position. iv Abstract In this globalization time world is in our pocket. Internet, mobile, personal computer is available for everyone. As an emerging form of enabling technology, Web-Application "Health Portals" provide users easier access to their healthcare information and services. We know mental health is as important as physical health. In this system we prioritize mental health as much as physical health. This system creates a friendly environment where anyone with any health related issue can seek help from professionals. v Table of Contents Contents Chapter 1: Introduction..... [1.1.1 Project Overview](#)..... [2.1.2 Project Purpose](#)..... [2.1.3 Background](#)..... [2.1.4 Benefits & Beneficiaries](#)..... [2.1.5 Goals](#)..... [3.1.6 Stakeholders](#)..... [3.1.7 Proposed System Model\(Block Diagram\)](#)..... [4.1.8 Project Schedule](#)..... [5.1.9 Release Plan](#)..... [5 Chapter 2: Software Requirement Specification](#) [6 2.1 Functional requirement \(Basic users\)](#) [7 2.2 Functional requirement \(Professionals \(doctors, psychologist, therapist\)\)](#)..... [12 2.3 Function requirement \(Admin\)](#)..... [17 2.4 Non-Functional requirement](#)..... [19 Chapter 3: System analysis and design specification](#) [22 3.1 System Development Life-Cycle](#) [23 3.2 Use Case Diagram](#)..... [24 3.3 Identifying Use Cases](#) [25 3.4 Identifying Use Cases Description](#) [25 3.5 Activity Diagram](#)..... [35 3.6 Class Diagram](#)..... [48 3.7 Sequence Diagram](#)..... [49 3.8 Entity Relationship Diagram](#)..... [59 3.9 Development of tools And Technology Interface Technology](#)..... [60 3.9.1 User Implementation Tools & Platforms](#) [60 Chapter 4: System Testing](#)..... [61 4.1 Introduction](#) [62 4.2 Features to be tested](#) [62 4.3 Testing Strategies](#) [62 4.3.1 Testing Approach](#) [62 4.3.2 Pass/Fail Criteria](#) [63 4.4 Testing Schedule](#) [63 4.5 5 Test case report](#) [64 Chapter 5: User Manual](#)..... [70 5.1 User Manual](#)..... [71 5.2 User Manual \(Basic User\)](#) [73 5.3 User Manual \(Professional\)](#)..... [89 Chapter 6: CONCLUSION](#)

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1:INTRODUCTION 1.1Project Overview: Health Portal is a web application system.		
Professional/Specialist (Physician, Therapist, Psychologist etc...) and General people (Basic User) can use this application. Here basic user can view and contact with their desire specialist to seek help for their any health related issue. They can also share their experience and help other's with user friendly chat rooms. They can message and make appointment to specialist, view latest health related news and also self assessment themselves to monitor thy health. They can also use emergency option to get quick help. Basic user and Professional will be able to maintain their profile, appointments, calendar events etc... 1.2 Project Purpose To prioritize both mental and physical health, here user can get help, advise, counseling from specialist to maintain their and physical health. It will help to grow awareness about health. Professional can put up their necessary document for their symbol of merit and their validity. User's review and rating will help others to get the best and easiest solution for their problem. Anonymous online chat room will help many to share their problems, experience with each other that will helps many to get a grip on their mental situation. Professional's knowledge and comment's on those will help to solve and find solution much easier. 1.3 Background During this project a pandemic cause of covid-19 going on and rate of suicidal activities for various mental issues has been rising up. So this project is a medium to get necessary help even at lockdown for pandemic. 1.4 Benefits &Beneficiaries Benefits: ? Easy to contact with professionals (specialist). ? Easy to share experience, knowledge, info via chat rooms. ? Calendar will help to manage events ? Making appointments and managing them. ? Helps to grow awareness about wellbeing about health. ? Availability of latest health related news. ? Self assessment about thy health and suggestion. Beneficiaries: ? General/Basic users ? Professionals/Specialists (Physicians, Psychologists, Psychiatrists etc...). ? Host organizations 1.5 Goals - To grow awareness about both physical and mental health - Create a friendly environment to share health related problems, solutions and experiences - Maintaining calendar for health related events like donating blood, test day, monthly checkup etc... neatly. - Connect general people and health specialist. 1.6 Stakeholders ? General users ? Health Specialist ? Host organizations 1.7 Proposed System Model (Block Diagram) Figure 1.7.1: Block Diagram 1.8 Project Schedule Gantt chart: Figure 1.8 .1: Gantt chart 1.9 Release Plan After development and final		

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testing of this web application "Health Portal", estimated release date is set to 28 December 2020. [CHAPTER 2: SOFTWARE REQUIREMENT SPECIFICATION 2.1](#) Functional [requirement](#) (Basic users) Table 2.1-1: BU.FRC-1 Requirement ID BU.FRC-1 Requirement Name Own account Requirement Type Functional Requirement Priority High Stakeholders Basic users, Admin Requirement Description Each user must have individual account. Table 2.1-2: BU.FRC-2 Requirement ID BU.FRC-2 Requirement Name Registration Requirement Type Functional Requirement Priority High Stakeholders Basic users, Admin Requirement Description User must get registered to get an account. Table 2.1-3: BU.FRC-3 Requirement ID BU.FRC-3 Requirement Name Profile update Requirement Type Functional Requirement Priority Medium Stakeholders Basic users, Admin Requirement Description User can change their basic account information such as (change profile picture, change password etc.) Table 2.1-4: BU.FRC-4 Requirement ID BU.FRC-4 Requirement Name Log in Requirement Type Functional Requirement Priority High Stakeholders Basic users Requirement Description User must log in to access all functionality of the system. Table 2.1-5: BU.FRC-5 Requirement ID BU.FRC-5 Requirement Name Search Professional Requirement Type Functional Requirement Priority High Stakeholders Basic users Requirement Description User can search for professionals also filter out desired specialist. 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Table 2.1-12: BU.FRC-12 Requirement ID BU.FRC-12 Requirement Name Calendar Requirement Type Functional Requirement Priority Medium Stakeholders Basic users Requirement Description User can see manage their calendar/events. Table 2.1-13: BU.FRC-13 Requirement ID BU.FRC-13 Requirement Name Feedback Requirement Type Functional Requirement Priority Low Stakeholders Basic users, Admin Requirement Description User can leave a message/feedback/report to the admin. Table 2.1-14: BU.FRC-14 Requirement ID BU.FRC-14 Requirement Name Emergency Requirement Type Functional Requirement Priority Low Stakeholders Basic users Requirement Description User can use emergency option to find available hospital, ambulance, doctor or other helps. Table 2.1-15: BU.FRC-15 Requirement ID BU.FRC-15 Requirement Name Rate Requirement Type Functional Requirement Priority Medium Stakeholders Basic users, Professional users Requirement Description User can review and rate particular professionals. 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Table 2.2-3: PU.FR-3 Requirement ID PU.FR-3 Requirement Name Profile Update Requirement Type Functional Requirement Priority High Stakeholders Professional users, Admin Requirement Description Professional can change their basic account information such as (change profile picture, change password etc.) Table 2.2-4: PU.FR-4 Requirement ID PU.FR-4 Requirement Name Log In Requirement Type Functional Requirement Priority High Stakeholders Professional users Requirement Description Professional must logged in to access all functionality of the system. Table 2.2-5: PU.FR-5 Requirement ID PU.FR-5 Requirement Name Achievement Requirement Type Functional

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Requirement Priority Medium Stakeholders Professional users Requirement Description Professional can put their certificate, achievements etc to validate their field. Table 2.2-6: PU.FR-6 Requirement ID PU.FR-6 Requirement Name Search Chat Room Requirement Type Functional Requirement Priority Medium Stakeholders Professional users Requirement Description Professional can search for chat room and also filter out private and/or anonymous chat rooms. Table 2.2-7: PU.FR-7 Requirement ID PU.FR-7 Requirement Name Create Chat Room Requirement Type Functional Requirement Priority Medium Stakeholders Professional users, Basic users Requirement Description Professional can create online chat room for single, couple and group therapy/counseling. Table 2.2-8: PU.FR-8 Requirement ID PU.FR-8 Requirement Name News Requirement Type Functional Requirement Priority Medium Stakeholders Professional users Requirement Description Professional can see latest news about health related issues. Table 2.2-9: PU.FR-9 Requirement ID PU.FR-9 Requirement Name Calendar Requirement Type Functional Requirement Priority Medium Stakeholders Professional users Requirement Description Professional can see manage their calendar/events. Table 2.2-10: PU.FR-10 Requirement ID PU.FR-10 Requirement Name Appointments Requirement Type Functional Requirement Priority High Stakeholders Professional users Requirement Description Professional can see their appointments and manage their appointment schedule. Table 2.2-11: PU.FR-11 Requirement ID PU.FR-11 Requirement Name Feedback Requirement Type Functional Requirement Priority High Stakeholders Professional users, Admin Requirement Description Professional can leave a message/ feedback/ report to the admin. 2.3 Function requirement (Admin) Table 2.3-1: AD.FR-1 Requirement ID AD.FR-1 Requirement Name Account Requirement Type Functional Requirement Priority High Stakeholders Admin Requirement Description Admin will have secret username and password to login into the system. Table 2.3-2: AD.FR-2 Requirement ID AD.FR-2 Requirement Name Monitor Requirement Type Functional Requirement Priority High Stakeholders Admin Requirement Description After login admin can monitoring the system. Table 2.3-3: AD.FR-3 Requirement ID AD.FR-3 Requirement Name Create Chat Room Requirement Type Functional Requirement Priority High Stakeholders Admin Requirement Description Admin can add new public/private chat room. Table 2.3-4: AD.FR-4 Requirement ID AD.FR-4 Requirement Name Verify Requirement Type Functional Requirement Priority High Stakeholders Admin Requirement Description Admin can verify professional. Table 2.3-5: AD.FR-5 Requirement ID AD.FR-5 Requirement Name Account Management Requirement Type Functional Requirement Priority High Stakeholders Admin Requirement Description Admin can edit user information and also can delete users. Table 2.3-6: AD.FR-6 Requirement ID AD.FR-6 Requirement Name Message Requirement Type Functional Requirement Priority High Stakeholders Admin Requirement Description Admin can search for user and contact them. Table 2.3-7: AD.FR-7 Requirement ID AD.FR-7 Requirement Name Profile Update Requirement Type Functional Requirement Priority High Stakeholders Admin Requirement Description Admin can change his/her security credentials (username & password). 2.4 Non-Functional requirement Table 2.4-1: N-FR-1 Requirement ID N-FR-1 Requirement Type Non-Functional Requirement Priority Medium Requirement Description System will have dynamic eye catching interface. Table 2.4-2: N-FR-2 Requirement ID N-FR-2 Requirement Type Non-Functional Requirement Priority High Requirement Description System will have dynamic search engine. Table 2.4-3: N-FR-3 Requirement ID N-FR-3 Requirement Type Non-Functional Requirement Priority Medium Requirement Description Recent updated news will be shown in homepage simultaneously. Table 2.4-4: N-FR-4 Requirement ID N-FR-4 Requirement Type Non-Functional Requirement Priority Medium Requirement Description System offers lower execution time. Table 2.4-5: N-FR-5 Requirement ID N-FR-5 Requirement Type Non-Functional Requirement Priority Medium Requirement Description System contains automatic menu adapting capability. Table 2.4-6: N-FR-6 Requirement ID N-FR-6 Requirement Type Non-Functional Requirement Priority Medium Requirement Description System will automatically updates whenever new data arises. CHAPTER 3: SYSTEM ANALYSIS AND DESIGN SPECIFICATION 3.1 System Development Life-Cycle In this project I use "Agile Model" for SDLC. Because this model gives flexibility to developers, functionality can be developed rapidly and demonstrated, good model for environments that change steadily and easy to manage. This model follows a very realistic approach to software development. This model helps to break product in small iterations. Every iteration involves various areas like – o Planning o Requirements Analysis o Design o Coding o Unit Testing and o Acceptance Testing. Figure 3.1.1: Agile Model 3.2 Use Case Diagram Overview of the use cases model of this proposed system "Health Portal". Figure 3.2.1: Use Case Diagram 3.3 Identifying Use Cases UC-1; UC-2 UC-3; UC-4; UC-5; UC-6; UC-7; UC-8; UC-9; UC-10; UC-11; UC-12; Table 3.3-1: Identifying Use Cases Registration Login Profile Appointment Schedule Make Appointment View Appointments Chatroom Calendar Self Assessment Emergency News Report/Feedback 3.4 Identifying Use Cases Description Table 3.4-1: UCDescription-1: Registration Use Case ID 1 Name Registration Goal Register Accounts for to use the system. Preconditions Users must

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those unique username and have a new email address to create a new account. Success End Condition Registration successful. Failed End Condition Registration failed. Primary Actors: Basic User, Professional Secondary Actors: Trigger Click to register. Description / Main Success Scenario Ste p 1 2 3.1 3.2 4 5 Action Click to register. Select User type Enter require details. Enter password. Registration complete. Redirect to home page. [Alternative Flows Step Branching Action Quality Requirements](#) Ste p 1 2 Requirement User should enter details carefully. All the input values must be validated. Table 3.4-2: UCDescription-2: Login Use Case ID 2 Name Login Goal Login into the system. [Preconditions User must have an account. Success End Condition](#) Login successful. Failed End Condition Login failed. Primary Actors: Basic User, Professional Secondary Actors: Trigger Click to Login. Description / Main Success Scenario Ste Action p 1 [Click to login](#). 2 [Enter username](#) 3. [Enter password](#). 4 Login complete. 5 Redirect to home page. [Alternative Flows Step 1 2 3 4 5 Branching Action](#) Forget password Enter email Go to link given in email Change password Log in Quality Requirements Ste p 1 2 Requirement User should enter details carefully. All the input values must be validated. Table 3.4-3: UCDescription-3: Profile Use Case ID 3 Name Profile Goal View and edit [profile Preconditions](#) User [must have](#) an account. [Success End Condition](#) Profile update successful. [Failed End Condition](#) Profile update failed. Primary Actors: Basic User, Professional Secondary Actors: Professional Trigger Click to edit profile. Description / Main Success Scenario Ste Action p 1 Click to edit profile. 2 Enter details. 3. Add necessary info. 4 Profile updated. 5 Redirect to home page. [Alternative Flows Step 1 1.1 1.2 1.3 Branching Action](#) View professional's profile. View appointment schedule. Rate them. Message them. Quality Requirements Ste p 1 2 Requirement User should enter details carefully. All the input values must be validated. Table 3.4-4: UCDescription-4: Appointment Schedule Use Case ID 4 Name Appointment Schedule Goal View and edit appointment schedule [Preconditions User must have an account. Success End Condition](#) Appointment Schedule update successful. Failed End Condition Appointment Schedule update failed. Primary Actors: Professional Secondary Actors: Trigger Click to Appointment Schedule. Description / Main Success Scenario Ste Action p 1 Click to edit/add appointment schedule. 2 Enter details. 3. Add necessary info. 4 Appointment schedule added/updated. 5 Redirect to home page. [Alternative Flows Step Branching Action Quality Requirements](#) Ste Requirement p 1 User should enter details carefully. 2 All the input values must be validated. Table 3.4-5: UCDescription-5: Make Appointment Use Case ID 5 Name Make Appointment Goal Make appointment to professional. [Preconditions User must have an account. Success End Condition](#) Appointment booked. Failed End Condition Appointment booked failed. Primary Actors: Basic User Secondary Actors: Trigger Click to make appointment. Description / Main Success Scenario Ste p 1 2 3. 4 5 Action Click to make appointment. Choose date Choose available slot. Enter details. Booked appointment. [Alternative Flows Step Branching Action Quality Requirements](#) Ste p 1 2 Requirement User should enter details carefully. All the input values must be validated. Table 3.4-6: UCDescription-6: View Appointments Use Case ID 6 Name View Appointments Goal View and update appointments. [Preconditions User must have a account. Success End Condition](#) Appointment updated. Failed End Condition Appointment update failed. Primary Actors: Basic User, Professional Secondary Actors: Trigger Click to view appointment. Description / Main Success Scenario Ste p Action 1 Select appointment. 2.1 Edit status. 2.2 Delete appointment. [Alternative Flows Step Branching Action Quality Requirements](#) Ste p Requirement 1 Today's appointment will be visible separately. 2 Notification will be sent for today's appointment. Table 3.4-7: UCDescription-7: Chatroom Use Case ID 7 Name Chatroom Goal Join chatroom [Preconditions User must have an account. Success End Condition](#) Join chatroom and chat. Failed End Condition Failed to join or chat. Primary Actors: Basic User, Professional Secondary Actors: Trigger Click to Chatrooms. Description / Main Success Scenario Ste p Action 1 Select chatroom. 2.1 Enter password (if required). 2.2 Choose join option as thyself or anonymous. 3 Start chatting. [Alternative Flows Step Branching Action Quality Requirements](#) Ste p Requirement 1 Chats should be clear to read. Table 3.4-8: UCDescription-8: Calendar Use Case ID 8 Name Calendar Goal View Calendar with events, add/update/delete events. [Preconditions User must have an account. Success End Condition](#) Event added/updated/deleted. Failed End Condition Event added/updated/deleted failed. Primary Actors: Basic User, Professional Secondary Actors: Trigger Click to Calendar. Description / Main Ste Action Success Scenario p 1 Click to add new event. 2 Enter details. 3. Select event. 4.1 Update event. 4.2 Delete event. [Alternative Flows Step Branching Action Quality Requirements](#) Ste p 1 2 Requirement User should enter details carefully. All the input values must be validated. Table 3.4-9: UCDescription-9: Self Assessment Use Case ID 9 Name Self Assessment Goal Self Assessment and get result and suggestion. [Preconditions User must have an account. Success End Condition](#) Self Assessment and get result and suggestion. Failed End Condition Self assessment failed. Primary Actors: Basic User Secondary Actors: Trigger Click to Self assessment Description / Main Success Scenario Ste p 1 2 3. 4. 5. Action Click to Self assessment. Choose field.

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Choose sector. Enter required details. See results and suggestion. [Alternative Flows Step Branching Action Quality Requirements](#) Ste p 1 2 Requirement User should enter details carefully. All the input values must be validate. Table 3.4-10: UCDescription-10: Emergency Use Case ID 10 Name Emergency Goal Able to use Emergency options. [Preconditions User must have an account. Success End Condition](#) Get help from emergency. Failed [End Condition Primary Actors: Basic User Secondary Actors: Trigger](#) Click to Emergency. [Description / Main Success Scenario](#) Ste p 1 2.1 2.2 2.3 3. Action Enter emergency Select ambulance Select doctors Select Hospital Get necessary info. [Alternative Flows Step Branching Action Quality Requirements](#) Ste p 1 2 Requirement All info should be easy to read. Valid data will be provided. Table 3.4-11: UCDescription-11: News Use Case ID 11 Name News Goal User able to see latest health related news. [Preconditions User must have an account. Success End Condition User](#) able to see latest health related news. Failed End Condition User unable to see latest health related news Primary Actors: Basic User, Professional [Secondary Actors: Trigger Description / Main Success Scenario](#) Ste p 1 2 Action Latest health related news load up. Refresh when new news come up. [Alternative Flows Step Branching Action Quality Requirements](#) Ste p 1 Requirement News must be from authentic source. Table 3.4-12: UCDescription-12: Report/Feedback Use Case ID 12 Name Report/Feedback Goal Report or send feedback to admin. [Preconditions User must have an account. Success End Condition](#) Report or feedback sent to admin successful. Failed End Condition Report or feedback sent to admin failed. Primary Actors: Basic User, Professional Secondary Actors: Admin Trigger Click to Report/Feedback Description / Main Success Scenario Ste Action p 1 Click to Report/Feedback. 2 Choose field. 3. Choose priority. 4. Enter required details. 5. Redirect to home page. [Alternative Flows Step Branching Action Quality Requirements](#) Ste p 1 2 Requirement User should enter details carefully. All the input values must be validate. 3.5Activity Diagram Start activity diagram Figure 3.5.1:Start activity diagram UC-1:Registration activity diagram Figure 3.5.2: UC-1:Registration activity diagram UC-2:Login activity diagram Figure 3.5.3:UC-2:Login activity diagram UC-3:Profile activity diagram Figure 3.5.4: UC-3:Profile activity diagram UC-4:Appointment Schedule activity diagram Figure 3.5.5:UC-4:Appointment Schedule activity diagram UC-5:Make Appointment activity diagram Figure 3.5.6:UC-5:Make Appointment activity diagram UC-6:View Appointments activity diagram Figure 3.5.7:UC-6:View Appointments activity diagram UC-7:Chatroom activity diagram Figure 3.5.8:UC-7:Chatroom activity diagram UC-8:Calendar activity diagram Figure 3.5.9:UC-8:Calendar activity diagram UC-9:Self Assessment activity diagram Figure 3.5.10:UC-9:Self Assessment activity diagram UC-10:Emergency activity diagram Figure 3.5.11:UC-10:Emergency activity diagram UC-11:News activity diagram Figure 3.5.12:UC-11:News activity diagram UC-12:Report/Feedback activity diagram Figure 3.5.13:UC-12:Report/Feedback activity diagram [3.6 Class Diagram Figure 3.6.1: Class Diagram](#) 3.7 Sequence Diagram UC-1: Registration Sequence Diagram Figure 3.7.1: UC-1: Registration Sequence Diagram UC-2: Login Sequence Diagram Figure 3.7.2: UC-2: Login Sequence Diagram UC-3: Profile-own Sequence Diagram Figure 3.7.3: UC-3: Profile-own Sequence Diagram UC-3: View professional profile Sequence Diagram Figure 3.7.4: UC-3: View professional profile Sequence Diagram UC-4: Appointment Schedule Sequence Diagram Figure 3.7.5: UC-4: Appointment Schedule Sequence Diagram UC-5: Make Appointment Sequence Diagram Figure 3.7.6: UC-5: Make Appointment Sequence Diagram UC-6: View Appointments Sequence Diagram Figure 3.7.7: UC-6: View Appointments Sequence Diagram UC-7: Chatroom Sequence Diagram Figure 3.7.8: UC-7: Chatroom Sequence Diagram UC-8: Calendar Sequence Diagram Figure 3.7.9: UC-8: Calendar Sequence Diagram UC-9: Self Assessment Sequence Diagram Figure 3.7.10: UC-9: Self Assessment Sequence Diagram UC-10: Emergency Sequence Diagram Figure 3.7.11: UC-10: Emergency Sequence Diagram UC-11: News Sequence Diagram Figure 3.7.12:UC-11: News Sequence Diagram UC-12: Report/Feedback Sequence Diagram Figure 3.7.13: UC-12: Report/Feedback Sequence Diagram 3.8Entity Relationship Diagram Figure 3.8.1: Entity Relationship Diagram 3.9Development of tools And Technology 3.9.1 User Interface Technology ? HTML5 ? CSS3 ? Bootstrap4 ? JavaScript 3.9.2 Implementation Tools &Platforms ? Python 3.7 ? Django 3.0 ? PyCharm 2020.3.1(Community edition) ? Firefox Browser ? SQLite3 CHAPTER 4:SYSTEM TESTING 4.1 Introduction [Software testing is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding software bugs \(errors or other defects\). It involves the execution of a software component or system component to evaluate one or more properties of interest. In general, these properties indicate the extent to which the component or system under test: ? meets the requirements that guided its design and development. ? responds correctly to all kinds of inputs. ? performs its functions within an acceptable time. ? is sufficiently usable. ? can](#)

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be installed and run in its intended environments, and ? Achieves the general result its stakeholder's desire. 4.2 Features to be tested i. Registration ii. Login iii. Appointment iv. Appointment Schedule v. Event vi. Chat 4.3 Testing Strategies 4.3.1 Testing Approach ? Testing of whole system will done step by step manually. 62 © Daffodil International University ? Testing should not be planned under the tacit assumption that no errors will be found. ? Test for invalid and unexpected input conditions as well as valid conditions. The program should generate correct messages when an invalid test is encountered and should generate correct results when the test is valid. ? The probability of the existence of more errors in a module or group of modules is directly proportional to the number of errors already found. ? Testing is the process of executing software with the intent of finding errors. ? Keep software static during test. The program must not be modified during the implementation of the set of designed test cases. ? Document test cases and test results. ? Provide expected test results if possible. A necessary part of test documentation is the specification of expected results, even if providing such results is impractical. 4.3.2 Pass/Fail Criteria 1. Component Pass/Fail criteria -If the case meets the object design requirement the test will pass or fail if not. 2. Integration Pass/Fail criteria -If the case meets the object design architecture requirement the test will pass or fail if not 4.4 Testing Schedule Table 4.4-1: Testing Schedule Test Phase Time Test Plan Creation 1weeks Test Specification Creation 1 weeks Test Specification Team Review 2 weeks Component Testing 2 weeks Integration Testing 3weeks System Testing 4 weeks 4.55 Test case report: A set of test inputs, execution condition and expected results developed for a particular objective such as to exercise a particular program path or to verify compliance with specific requirement. Test Case 1 Table 4.5 -1: Test Case 1 Test case ID: 1 Test case name: Registration System: Health Portal Subsystem: Registration Designed and Executed by : Design Date: 12/07/14 Sajib Biswas Execution date:15/2/15 Table 4.5-2: Test Case 1(Registration) Steps Action Expected system response Pass/F ail comm ent 1 When a user fills up only Name field and clicks the login Other fields are required pass RESP ONSI VE 2 When a user clicks only register button without a fill-up any field Fill up the Required field pass RESP ONSI VE 3 When a user enters email like aaa.com Fill up the previous Required field pass RESP ONSI VE 4 When a user enters valid info Registration successful pass RESP ONSI VE Test Case 2 Table 4.5-3: Test Case 2 Test case ID: 2 Test case name: Login System; Health Portal Subsystem; Login Designed and Executed by : Design Date: 12/07/14 Sajib Biswas Execution date:15/2/15 Table 4.5-4: Test Case 2 (Login) Steps Action Expected system response Pass/F ail comm ent 1 When a user fills up only Username field and clicks the login Other fields are required pass RESP ONSI VE 2 When a user clicks only login button without a fill-up any field Fill up the Required field pass RESP ONSI VE 3 When a user enters wrong Please enter a correct pass RESP password username and password. Note that both fields may be case- sensitive. ONSI VE 4 When a user enters valid info Login successful pass RESP ONSI VE Test Case 3 Table 4.5-5: Test Case 3 Test case ID: 3 Test case name: Appointment System: Health Portal Subsystem: Appointment Designed and Executed by : Design Date: 12/07/14 Sajib Biswas Execution date:15/2/15 Table 4.5-6: Test Case 3 (Appointment) Steps Action Expected system response Pass/F ail comm ent 1 When a user select wrong date No slots are available pass RESP ONSI VE 2 When all slots booked for a certain date Booked slot won't be shown. pass RESP ONSI VE 3 When a user enters details and click booked appointment. Appointment successfully booked. pass RESP ONSI VE 4 When a user click view appointment All available user appointment will be shown. pass RESP ONSI VE Test Case 4 Table 4.5-7: Test Case 4 Test case ID: 4 Test case name: Appointment Schedule System: Health Portal Subsystem: Appointment Schedule Designed and Executed by : Design Date: 12/07/14 Sajib Biswas Execution date:15/2/15 Table 4.5-8: Test Case 4 (Appointment Schedule) Steps Action Expected system response Pass/F ail comm ent 1 When a schedule time clash with start time and end time Start Time must be earlier than the End Time!! pass RESP ONSI VE 2 When a schedule time clash with other schedule's time Start Time/ End Time clash with other schedule!! pass RESP ONSI VE 3 When a user enters correct input. Appointment schedule successfully added. pass RESP ONSI VE 4 When a user click view appointment schedule All available user appointment schedule will be shown. pass RESP ONSI VE Test Case 5 Table 4.5-9: Test Case 5 Test case ID: 5 Test case name: Event System; Health Portal Subsystem: Event Designed and Executed by : Design Date: 12/07/14 Sajib Biswas Execution date:15/2/15 Table 4.5-10: Test Case 5 (Event) Steps Action Expected system response Pass/F ail comm ent 1 When a event time clash with start time and end time Start Time must be earlier than the End Time!! pass RESP ONSI VE 2 When a event time clash with other schedule's time Start Time/ End Time clash with other schedule!! pass RESP ONSI VE 3 When a user enters correct input. Event successfully added. pass RESP ONSI VE 4 When a user click view Calendar All available user events will be shown. pass RESP ONSI VE Test Case 6 Table 4.5 -11: Test Case 6 Test case ID: 6 Test case name: Chat System: Health Portal Subsystem: Chat Designed and Executed by : Design Date: 12/07/14 Sajib Biswas Execution date:15/2/15 Table 4.5-12: Test Case 6

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