



# King Fahd University of Petroleum and Minerals

College of Computer Sciences and Engineering CCSE  
Information and Computer Sciences Department

# Obesity Group Clinic

## Team B



Abdulaziz Al-Amoudi  
Rakan Al-Ghufaili  
Saeed Al-Tuwaileb  
Sameer Al-Amri  
Shaeq Khan  
Yasir Al-Agl

## Sponsor

Dr. Essam Jalal  
  
أرامكو السعودية  
"Saudi Aramco"

## Project Advisor

Dr. Sajjad Mahmood

جامعة الملك فهد للبترول والمعادن  
King Fahd University of Petroleum & Minerals

## Table of Contents

1. Introduction.....	6
1.1 Purpose .....	6
1.2 Scope .....	6
1.3 Definitions and Abbreviations .....	6
1.4 Overview .....	7
2. Class Diagram .....	8
2.1 First Part of the Class Diagram .....	8
2.2 Second half of the Class Diagram .....	9
2.3 Full Class Diagram.....	10
2.4 Class Diagram Dictionary.....	11
2.4.1 PatientWeeklyRecord.....	11
2.4.2 PatientMonthlyRecord .....	13
2.4.3 GoalsAssignedToPatients .....	15
2.4.4 Patient .....	17
2.4.5 Goal .....	18
2.4.6 Profile .....	20
2.4.7 PatientRecord.....	22
2.5 Package Diagram .....	23
3. Database Design .....	24
3.1 Enhanced Entity Relationship Model .....	24
3.2 Database Relational Schema .....	25
3.3 Database Dictionary .....	27
3.3.1 Profile .....	27
3.3.2 PATIENT .....	27
3.3.3 PATIENT_WEIGHT_HISTORY.....	28
3.3.4 PATIENT_HEIGHT_HISTORY.....	28
3.3.5 PATIENT_MEDICAL_HISTORY .....	28
3.3.6 GOAL.....	28
3.3.7 PATIENT_GOALS .....	29
3.3.8 PATIENT_WEEKLY_RECORD.....	30
3.3.9 PATIENT_MONTHLY_RECORD .....	30

4. Activity Diagram .....	31
4.1 Add Goal .....	31
4.2 Add Patient.....	32
4.3 Search Patient .....	33
4. 4 Search Goal.....	34
4.5 Assign Goal To Patient:.....	35
4.6 Generate Report For Patient:.....	36
4.7 Generate Reports For Goal.....	37
4.8 Add Team Member: .....	38
4.9 Search Team Member:.....	39
5. System Architecture .....	40
5.1 Thin Client-Server Architecture:.....	40
5.2 3-Tier Client-Server Architecture:.....	41
5.3 Repository Architecture: .....	43
5.4 Chosen Alternative .....	44
6. Capability Matrix .....	45
7. White Box Test Cases .....	46

## Document Revision History

---

Date	Version	Description	Author
15 <sup>th</sup> May 2011	1.0	SDD initial	Sameer
27 <sup>th</sup> May 2011	1.1	SDD Final	Yasir
2 <sup>nd</sup> June 2011	1.2	Corrections to SDD v1.1	Saeed



## 1. Introduction

### 1.1 Purpose

The purpose of this document is to define the solution that will be used for implementing Obesity Group Clinic System. It shows how the Software Requirements Document for this system is mapped to design a complete solution for OGCS. It shows the relation between the classes and the packages in the system and how they interact with each other in a detailed way to support the requested requirements.

### 1.2 Scope

This document includes the class diagram of the whole OGCS. It includes for each class its methods and variables that complete the class. Also, it has a class diagram dictionary that explains each class's methods, attributes and relations. White box test cases for the whole design are implemented. Finally, it specifies the database design

### 1.3 Definitions and Abbreviations

- *SPMP* – Software Project Management Plan
- *SRS* – Software Requirements Specification
- *SDD* – Software Design Document
- *STD* – Software Testing Documentation
- *OGC* – Obesity Group Clinic
- *OGCT* – Obesity Group Clinic Health Team
- *OGCS* – Obesity Group Clinic System
- *OGCC* – Obesity Group Clinic Committee
- *SAMSO* – Saudi Aramco Medical Services Organization
- *BOI* – Bank of Ideas

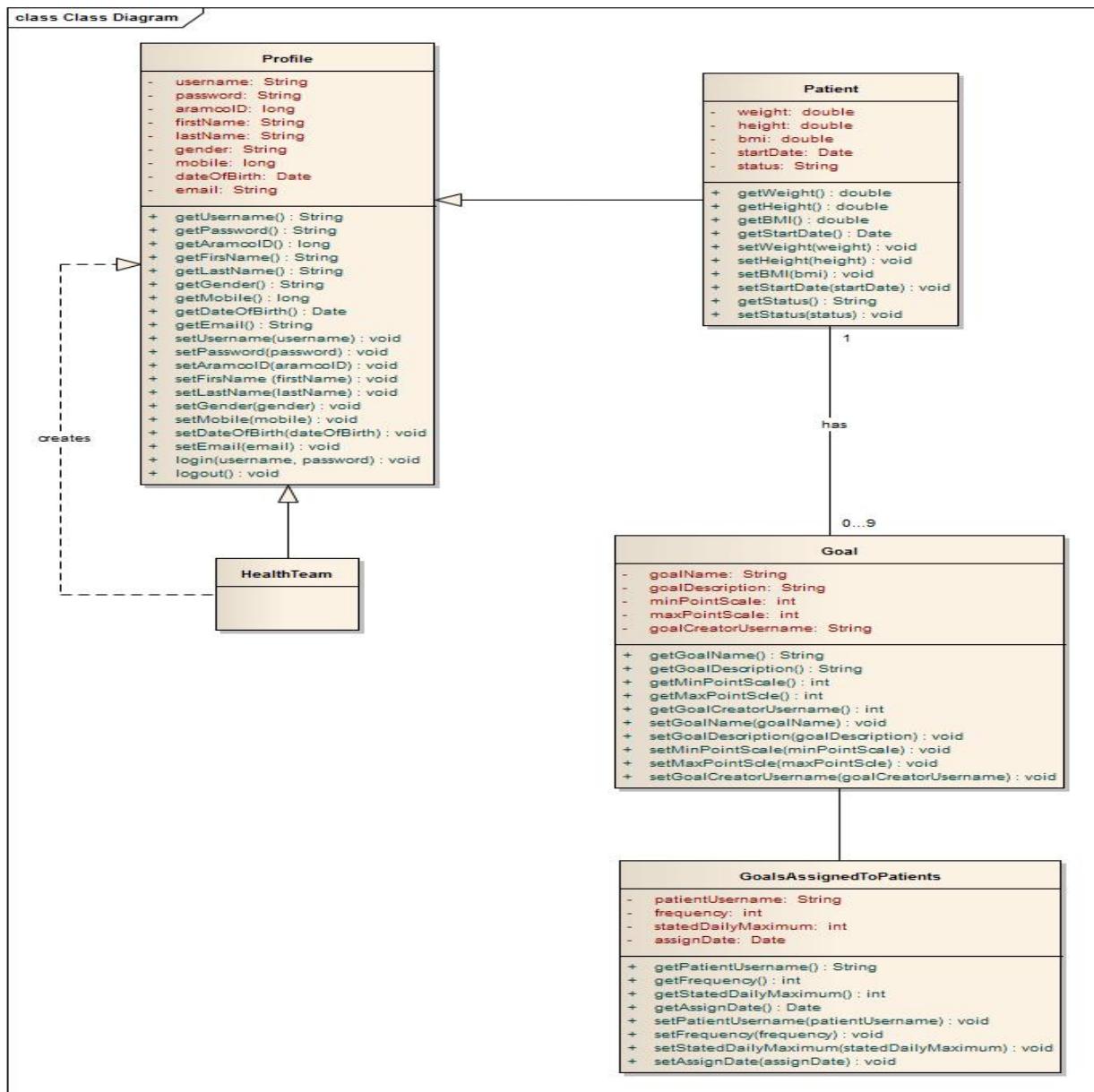
## 1.4 Overview

This document provides detailed design specifications for OGCS, including system high-level overview as packages diagram and deployment architecture. It also shows the database design approach used and the details for the database, including relationships, keys, clustering attributes. The internal data of each class is shown. Lastly, for easier tracking of the system features and the classes they interacts with, the capability matrix is developed.

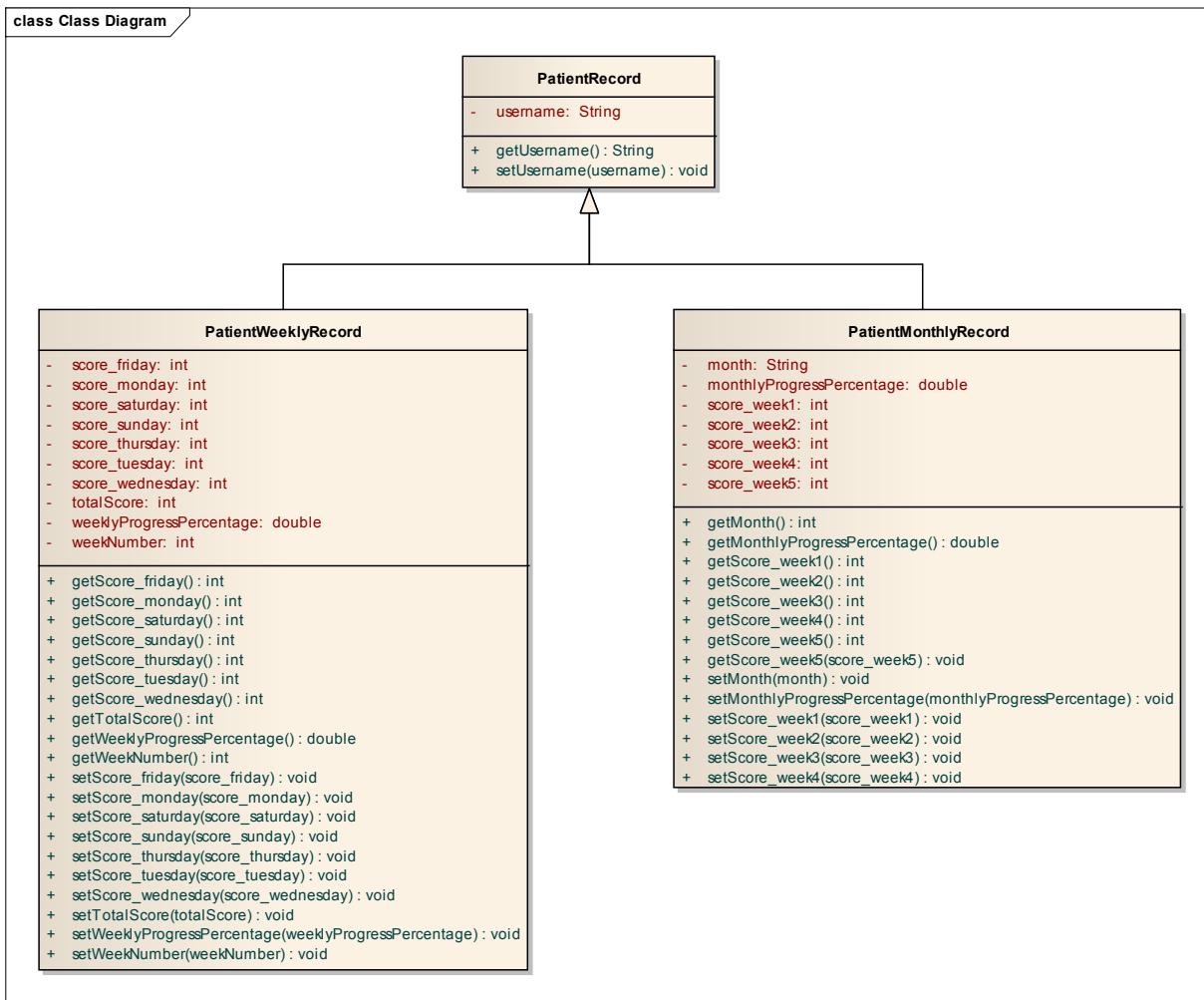
## 2. Class Diagram

Since the OGCS is mainly database, this class diagram was designed based on the rational model. Due to size and quality issues, the class diagram was divided to two pages.

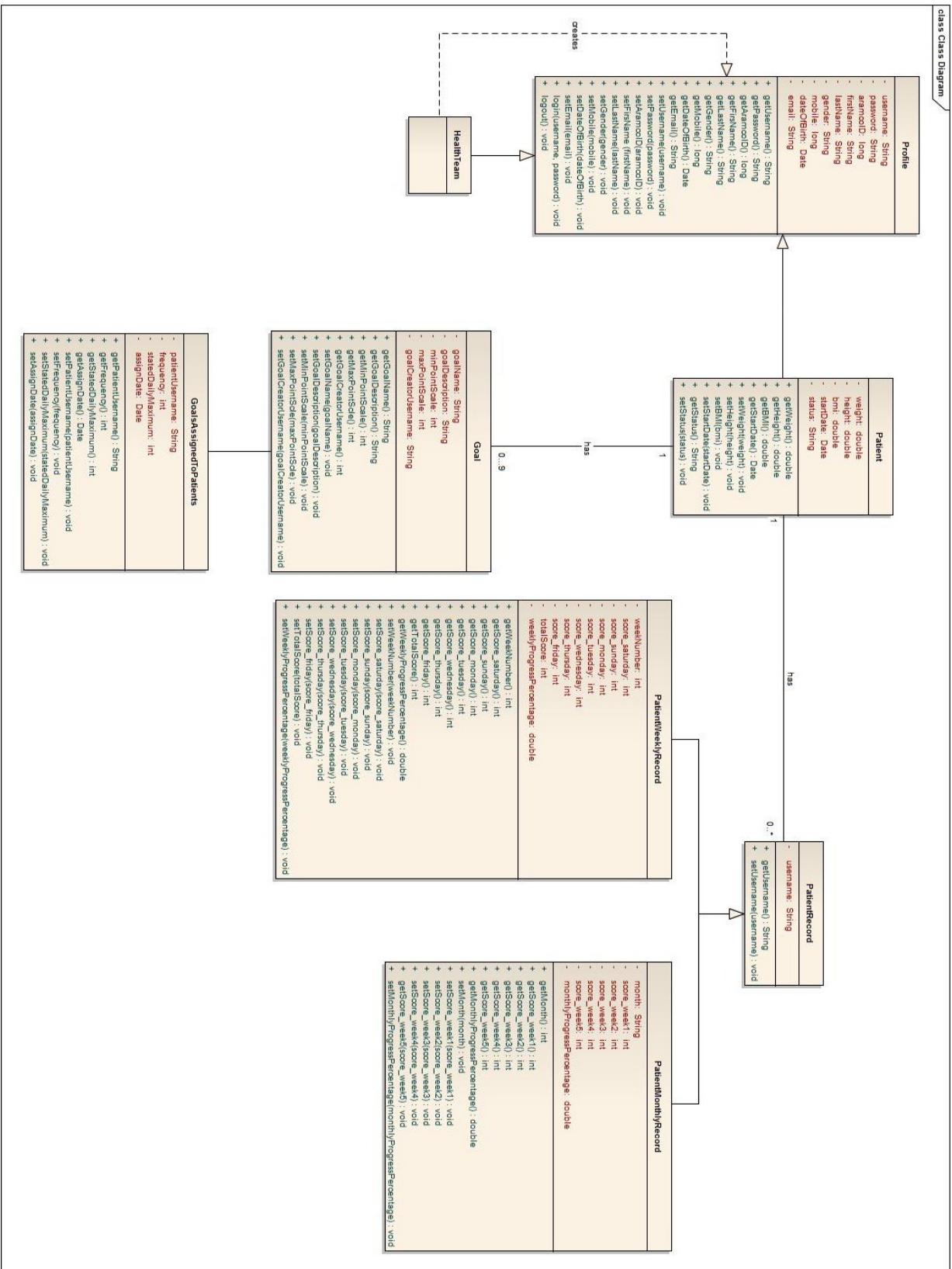
### 2.1 First Part of the Class Diagram



## 2.2 Second half of the Class Diagram



## 2.3 Full Class Diagram



## 2.4 Class Diagram Dictionary

The class diagram dictionary shows the full details of every class. It specifies the attributes and their type, methods and their signature and return type, and the relations between all related classes.

### 2.4.1 PatientWeeklyRecord

<b>Name</b>	PatientWeeklyRecord
<b>Description</b>	This class stores description of the weekly records for each patient.

#### Attributes

<b>Name of Attribute</b>	<b>Data Type</b>	<b>Description</b>
score_friday	Integer	Private attribute to store the patient's score on Friday.
score_monday	Integer	Private attribute to store the patient's score on Monday.
score_saturday	Integer	Private attribute to store the patient's score on Saturday.
score_sunday	Integer	Private attribute to store the patient's score on Sunday.
score_thursday	Integer	Private attribute to store the patient's score on Thursday.
score_tuesday	Integer	Private attribute to store the patient's score on Tuesday.
score_wednesday	Integer	Private attribute to store the patient's score on Wednesday.
totalScore	Integer	Private attribute to store the total score that the patient has achieved.
weeklyProgressPercentage	Double	Private attribute that stores the patient's progress rate for the whole week.
weekNumber	Integer	Private attribute to identify the week of the patient's record.

## Methods

Method Signature	Description
getScore_friday (): int	Public method to access the patient's score on Friday.
getScore_monday (): int	Public method to access the patient's score on Monday.
getScore_saturday (): int	Public method to access the patient's score on Saturday.
getScore_sunday (): int	Public method to access the patient's score on Sunday.
getScore_thursday (): int	Public method to access the patient's score on Thursday.
getScore_tuesday (): int	Public method to access the patient's score on Tuesday.
getScore_wednesday (): int	Public method to access the patient's score on Wednesday.
getTotalScore (): int	Public method to access the patient's total score.
getWeeklyProgressPercentage (): double	Public method to access the patient's progress rate for the whole week.
getWeekNumber (): int	Public method to access the week number for the patient's record.
setScore_friday (int: score_friday): void	Public method to set the patient's score on Friday.
setScore_monday (int: score_monday): void	Public method to set the patient's score on Monday.
setScore_saturday (int: score_saturday): void	Public method to set the patient's score on Saturday.
setScore_sunday (int: score_sunday): void	Public method to set the patient's score on Sunday.
setScore_thursday (int: score_thursday): void	Public method to set the patient's score on Thursday.
setScore_tuesday (int: score_tuesday): void	Public method to set the patient's score on Tuesday.
setScore_wednesday (int: score_wednesday): void	Public method to set the patient's score on Wednesday.
setTotalScore (int: totalScore): void	Public method to set the patient's total score.
setWeeklyProgressPercentage (double: weeklyProgressPercentage): void	Public method to set the patient's progress rate for the whole week.
setWeekNumber (int: weekNumber): void	Public method to set the week.

## Relationships

Class Name	Type of Relationship	Comments
PatientRecord	Inheritance	PatientRecord is the parent class.

## 2.4.2 PatientMonthlyRecord

<b>Name</b>	PatientMonthlyRecord
<b>Description</b>	This class stores description of the monthly records for each patient.

### Attributes

<b>Name of Attribute</b>	<b>Data Type</b>	<b>Description</b>
monthlyProgressPercentage	Double	Private attribute that stores the patient's progress rate for the whole month.
month	String	Private attribute to identify the month of the patient's record.
score_week1	Integer	Private attribute to store the patient's score on week 1 of the month.
score_week2	Integer	Private attribute to store the patient's score on week 2 of the month.
score_week3	Integer	Private attribute to store the patient's score on week 3 of the month.
score_week4	Integer	Private attribute to store the patient's score on week 4 of the month.
score_week5	Integer	Private attribute to store the patient's score on week 5 of the month.

### Methods

<b>Method Signature</b>	<b>Description</b>
getScore_week1(): int	Public method to access the patient's score on week 1.
getScore_week2(): int	Public method to access the patient's score on week 2.
getScore_week3(): int	Public method to access the patient's score on week 3.
getScore_week4(): int	Public method to access the patient's score on week 4.
getScore_week5(): int	Public method to access the patient's score on week 5.
getMonth(): String	Public method to access the month for the patient's record.
getMonthlyProgressPercentage(): double	Public method to access the patient's progress rate for the whole month.
setMonth(month): void	Public method to set the month.

setMonthlyProgressPercentage(double: MonthlyProgressPercentage): void	Public method to set the patient's progress rate for the whole month.
setScore_week1(int: score_week1): void	Public method to set the patient's score on week 1.
setScore_week2(int: score_week2): void	Public method to set the patient's score on week 2.
setScore_week3(int: score_week3): void	Public method to set the patient's score on week 3.
setScore_week4(int: score_week4): void	Public method to set the patient's score on week 4.
setScore_week5(int: score_week5): void	Public method to set the patient's score on week 5.

### Relationships

Class Name	Type of Relationship	Comments
PatientRecord	Inheritance	PatientRecord is the parent class.

### 2.4.3 GoalsAssignedToPatients

<b>Name</b>	GoalsAssignedToPatients
<b>Description</b>	This class stores description of a goal assigned to a patient with some modified goals' field.

#### Attributes

<b>Name of Attribute</b>	<b>Data Type</b>	<b>Description</b>
assignDate	Date	Private attribute that stores the date of assigning a goal to a patient.
frequency	Integer	Private attribute that stores the frequency of repeating a goal.
patientUsername	String	Private attribute that stores the name of the patient along with the goal assigned.
StatedDailyMaximum	Integer	Private attribute that stores maximum amount of goal stated to be achieved per day.

#### Methods

<b>Method Signature</b>	<b>Description</b>
getAssignDate(): Date	Public method to access the assignment date of the goal to a patient.
getFrequency(): int	Public method to access the frequency of the goal per week.
getpatientUsername(): String	Public method to access the username of the patient assigned to a specific goal.
getStatedDailyMaximum(): int	Public method to access the stated daily maximum amount of a goal for a specific patient.
setAssignDate(Date: assignDate): void	Public method to set the assignment date of the goal to a patient.
setFrequency(int: frequenct): void	Public method to set the frequency of the goal per week.
setPatientUsername(String: patientUsername): void	Public method to set the username of the patient assigned to a specific goal.
setStatedDailyMaximum(int: StatedDailyMaximum): void	Public method to set the stated daily maximum amount of a goal for a specific patient.

**Relationships**

<b>Class Name</b>	<b>Type of Relationship</b>	<b>Comments</b>
Goal	Inheritance	Goal is the parent class

## 2.4.4 Patient

<b>Name</b>	Patient
<b>Description</b>	Dealing with patient information within the system

### Attributes

<b>Name of Attribute</b>	<b>Data Type</b>	<b>Description</b>
BMI	Double	Private attribute to store BMI of the patient
Height	Double	Private attribute to store Height of the patient
Start date	Date	Private attribute to store StartDate of the patient
Status	String	Private attribute to store Status of the patient
Weight	Double	Private attribute to store Weight of the patient

### Methods

<b>Method Signature</b>	<b>Description</b>
getBMI() Double	Public method to access the patient's BMI
getHeight() Double	Public method to access the patient's Height
getStartDate() Date	Public method to access the patient's StartDate
getStatus() String	Public method to access the patient's Status
getWeight() Double	Public method to access the patient's Weight
setBMI(bmi) void	Public method to set the patient's BMI
setHeight(height) void	Public method to set the patient's Height
setStartDate(startDate) void	Public method to set the patient's startDate
setStatus(status) void	Public method to set the patient's status
setWeight(weight) void	Public method to set the patient's weight

### Relationships

<b>Class Name</b>	<b>Type of Relationship</b>	<b>Comments</b>
Profile	Inheritance (Profile- parent class)	
PatientRecord	Association	Patient has 0 to * PatientRecords.
Goal	Association	Patient has 0 to 9 goals.

## 2.4.5 Goal

<b>Name</b>	Goal
<b>Description</b>	Dealing with goal information within the system

### Attributes

<b>Name of Attribute</b>	<b>Data Type</b>	<b>Description</b>
goalCreatorUserName	String	Private attribute to store goal creator name.
goalDescription	String	Private attribute to store goal description
goalName	String	Private attribute to store goal's name
maxPointScale	Integer	Private attribute to store goal's maxPointScale
minPointScale	Integer	Private attribute to store goal's minPointScale

### Methods

<b>Method Signature</b>	<b>Description</b>
getgoalCreatorUserName()String	Public method to access the goal's goalCreatorUserName
getGoalDescription()String	Public method to access the goal's goalDescription
getGoalName() String	Public method to access the goal's goalName
getMaxPointScale() integer	Public method to access the goal's maxPointScale
getMinPointScale() integer	Public method to access the goal's minPointScale
setGoalCreatorUserName(goalCreatorUserName)void	Public method to access the goal's goalCreatorUserName
setGoalDescription(goalDescription) void	Public method to access the goal's GoalDescription
setGoalName(goalName) void	Public method to access the goal's GoalName
setMaxPointScale(maxPointScale) void	Public method to access the goal's MaxPointScale
setMinPointScale(minPointScale) void	Public method to access the goal's MinPointScale

**Relationships**

<b>Class Name</b>	<b>Type of Relationship</b>	<b>Comments</b>
GoalsAssignedToPatients	Inheritance(Goal –parent class)	
Patient	Association	0 -9 goal belongs to patient

## 2.4.6 Profile

<b>Name</b>	Profile
<b>Description</b>	A class that stores the information of users who can login to OGCS.

### Attributes

<b>Name of Attribute</b>	<b>Data Type</b>	<b>Description</b>
username	String	Private attribute used by the user to login to OGCS.
password	String	Private attribute used by the user to login to OGCS.
aramcoID	long	Private attribute to identify the user.
firstName	String	Private attribute to store the user's first name.
lastName	String	Private attribute to store the user's last name.
gender	String	Private attribute to store the user's gender
mobile	long	Private attribute to store the user's mobile.
dateOfBirth	Date	Private attribute to store the user's date of birth.
email	String	Private attribute to store the user's email.

### Methods

<b>Method Signature</b>	<b>Description</b>
getUsername(): String	Public method to access the user's username.
getPassword(): String	Public method to access the user's password.
getAramcoID(): long	Public method to access the user's Armco ID.
getFirstName(): String	Public method to access the user's first name.
getLastName(): String	Public method to access the user's last name.
getGender(): String	Public method to access the user's gender.
getMobile(): long	Public method to access the user's mobile.
getDateOfBirth(): Date	Public method to access the user's date of birth.
getEmail(): String	Public method to access the user's email.
setUsername(username): void	Public method to set the user's username.
setPassword(password): void	Public method to set the user's password.
setAramcoID(aramcoID): void	Public method to set the user's aramco ID
setFirstName(firstName): void	Public method to set the user's first name.
setLastName(lastName): void	Public method to set the user's last name.
setGender(gender): void	Public method to set the user's gender.
setMobile(mobile): void	Public method to set the user's mobile.
setDateOfBirth(dateOfBirth): void	Public method to set the user's date of birth.
setEmail(email): void	Public method to set the user's email.
login(username,password): void	Public method used to allow users to login to OGCS.

logout (): void	Public method used to allow users to logout from OGCS.
-----------------	--

### Relationships

Class Name	Type of Relationship	Comments
Patient	Inheritance	
HealthTeam	Realization	HealthTeam can create profiles for users.
HealthTeam	Inheritance	

## 2.4.7 PatientRecord

<b>Name</b>	PatientRecord
<b>Description</b>	A class that stores the information of patient's records.

### Attributes

<b>Name of Attribute</b>	<b>Data Type</b>	<b>Description</b>
username	String	Private attribute to identify the patients' records.

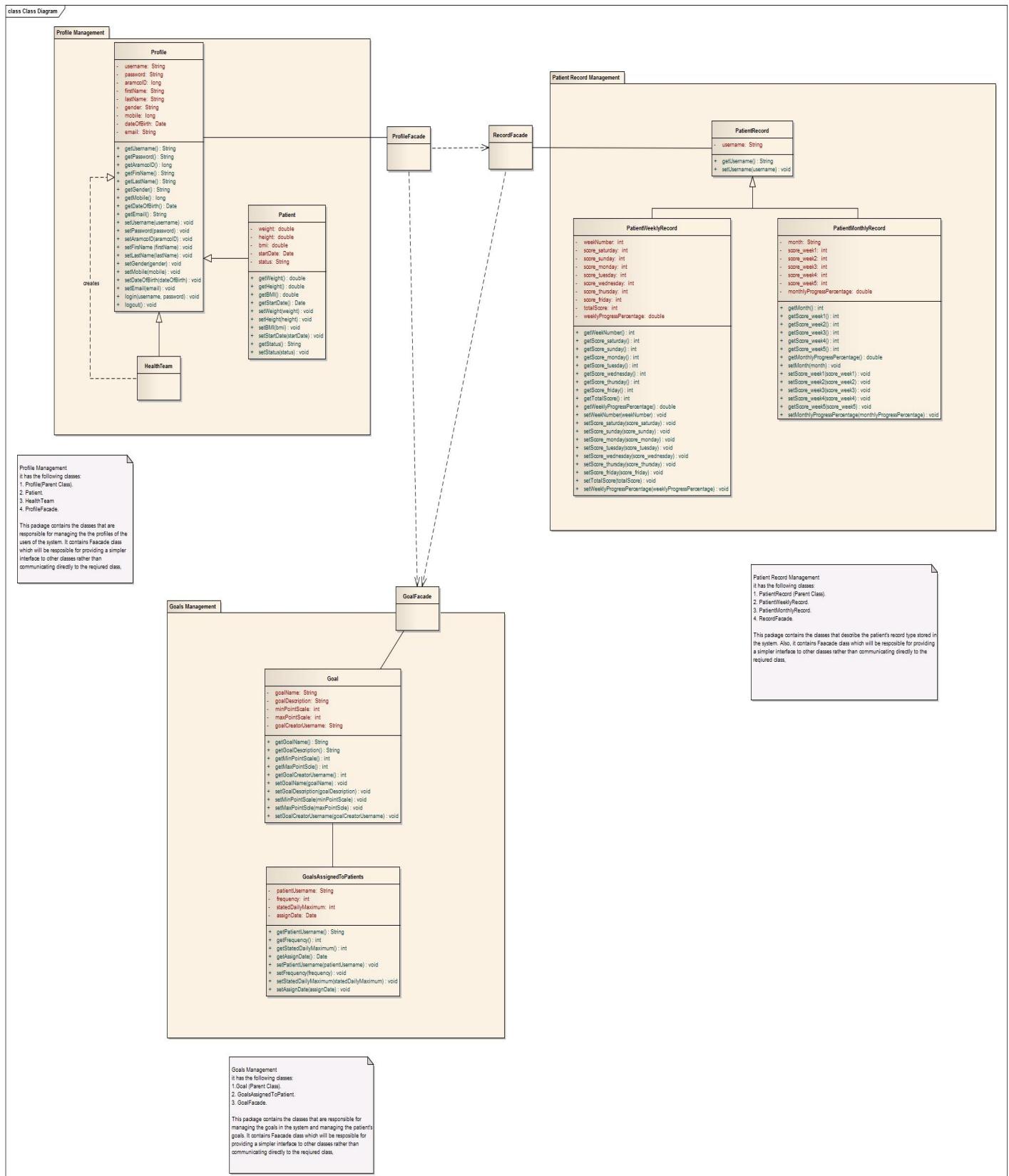
### Methods

<b>Method Signature</b>	<b>Description</b>
getUsername(): String	Public method to access the patient's username.
setUsername(username): void	Public method to set the patient's username.

### Relationships

<b>Class Name</b>	<b>Type of Relationship</b>	<b>Comments</b>
Patient	Association	A patient can have 0..* records
PatientWeeklyRecord	Inheritance	
PatientMonthlyRecord	Inheritance	

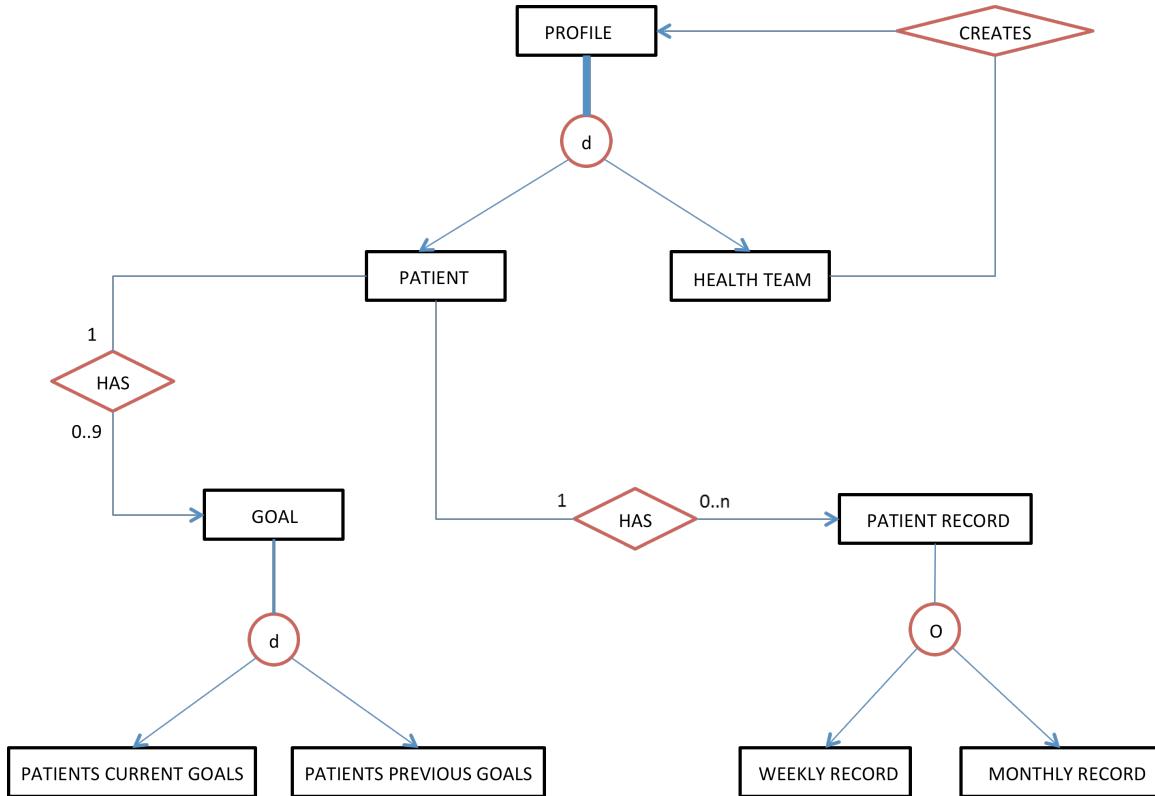
## 2.5 Package Diagram



### 3. Database Design

This clause f the document shows the full design of the database. It has the DB schema, enhanced entity relationship model and the DB dictionary.

#### 3.1 Enhanced Entity Relationship Model



## 3.2 Database Relational Schema

### Profile

username	password	aramcoID	firstName	lastName	gender	mobileNumber	dateOfBirth	email	typeFlag
me	rd	ID	me	me	er	ber	th	il	ag

typeFlag

1 = health team member

2 = patient

### PATIENT

username	weight	height	bmi	startDate	activeFlag
me	70	175	25.0	2023-01-01	1

activeFlag

0 = not active

1 = active

### PATIENT\_WEIGHT\_HISTORY

weightID	username	weight
1	me	70

### PATIENT\_HEIGHT\_HISTORY

heightID	username	height
1	me	175

### PATIENT\_MEDICAL\_HISTORY

historyID	username	description
1	me	Normal blood pressure

**GOAL**

goalID	goalName	goalDescription	minPointScale	maxPointScale	goalType	goalCreatorUsername	deletedFlag
--------	----------	-----------------	---------------	---------------	----------	---------------------	-------------

goalType

0 = decrementory

1 = incrementory

deletedFlag

0 = not deleted

1 = deleted

**PATIENT\_GOALS**

assignID	goalID	username	frequency	statedDailyMax	assignDate	currentFlag
----------	--------	----------	-----------	----------------	------------	-------------

currentFlag

0 = not current

1 = current

**PATIENT\_WEEKLY\_RECORD**

username	assignID	weekNumber	saturday	sunday	monday	tuesday	wednesday	thursday	friday
totalScore		weeklyProgressPercentage							

**PATIENT\_MONTHLY\_RECORD**

username	assignID	month	week 1	week 2	week 3	week 4	week 5	monthlyProgressPercentage
----------	----------	-------	--------	--------	--------	--------	--------	---------------------------

### 3.3 Database Dictionary

#### 3.3.1 Profile

Attribute name	Type	Description
username	VARCHAR(15)	Unique identification of the user in the system
password	VARCHAR(15)	Password to login to the system and use services
aramcoID	INTEGER	Users may be required to enter their unique Aramco id if they are from Aramco
firstName	VARCHAR(20)	First name
lastName	VARCHAR(20)	Last name
gender	VARCHAR(6)	
mobileNumber	INTEGER	Primary contact number of patient using the system
dateOfBirth	DATE	
email	VARCHAR(20)	Primary email contact of patient using the system
typeFlag	INTEGER	The type of account of the user 1 = health team member 2 = patient

#### 3.3.2 PATIENT

Attribute name	Type	Description
username	VARCHAR(15)	Unique identification of the user in the system
weight	DOUBLE	
height	DOUBLE	
bmi	DOUBLE	Body Mass Index - calculated from the weight and height of the patient
startDate	DATE	date when the patients is registered into the system
activeFlag	INTEGER	To mark whether the patient has an active account or not 0 = not active 1 = active

### 3.3.3 PATIENT\_WEIGHT\_HISTORY

Attribute name	Type	Description
weightID	INTEGER	Unique identification of the user's weight in the system
username	VARCHAR(15)	Unique identification of the user in the system
weight	DOUBLE	

### 3.3.4 PATIENT\_HEIGHT\_HISTORY

Attribute name	Type	Description
heightID	INTEGER	Unique identification of the user's height in the system
username	VARCHAR(15)	Unique identification of the user in the system
height	DOUBLE	

### 3.3.5 PATIENT\_MEDICAL\_HISTORY

Attribute name	Type	Description
historyID	INTEGER	Unique identification of the user's history in the system
username	VARCHAR(15)	Unique identification of the user in the system
description	VARCHAR(500)	Description of any medical diseases the patient has

### 3.3.6 GOAL

Attribute name	Type	Description
goalID	INTEGER	Unique identification of a goal in the system
goalName	VARCHAR(100)	A brief name of the goal
goalDescription	VARCHAR(200)	A complete description of the goal explained to the patients.

minPointScale	INTEGER	The minimum possible score for a goal. In all cases it is 0
maxPointScale	INTEGER	Maximum possible score for a goal. This varies between goals. [8/10/100]
goalType	INTEGER	0 = decrementory 1 = incrementory
goalCreatorUsername	VARCHAR(15)	
deletedFlag	INTEGER	To record of the goal is deleted from the system or not by the health team 0 = not deleted 1 = deleted

### 3.3.7 PATIENT\_GOALS

Attribute name	Type	Description
assignID	INTEGER	Unique identification of the goals assigned to a user in the system
goalID	INTEGER	Unique identification of a goal in the system
username	VARCHAR(15)	Unique identification of the user in the system
frequency	INTEGER	Number of times the goal can be taken up by a patient for a week. Range between [1 to 7]
statedDailyMax	INTEGER	A maximum score to achieve can be set by the patient for a week out of the possible maximum and the patient's progress will be calculated according to the set maximum
assignDate	DATE	Date on which the goal was assigned to the patient
currentFlag	INTEGER	Whether the goal is under progress or has been finished earlier 0 = not current 1 = current

### 3.3.8 PATIENT\_WEEKLY\_RECORD

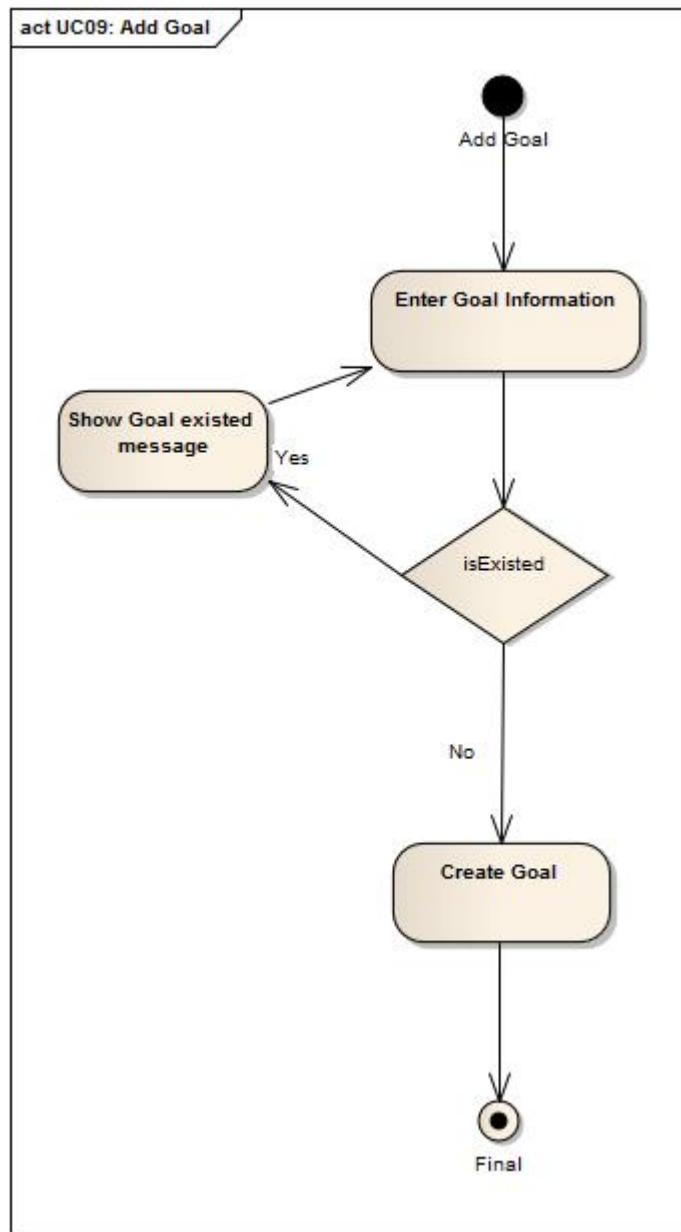
<b>Attribute name</b>	<b>Type</b>	<b>Description</b>
username	VARCHAR(15)	Unique identification of the user in the system
assignID	INTEGER	Unique identification of the goals assigned to a user in the system
weekNumber	INTEGER	
saturday	INTEGER	
sunday	INTEGER	
monday	INTEGER	
tuesday	INTEGER	
wednesday	INTEGER	
thursday	INTEGER	
friday	INTEGER	
totalScore	INTEGER	
weeklyProgressPercentage	DOUBLE	

### 3.3.9 PATIENT\_MONTHLY\_RECORD

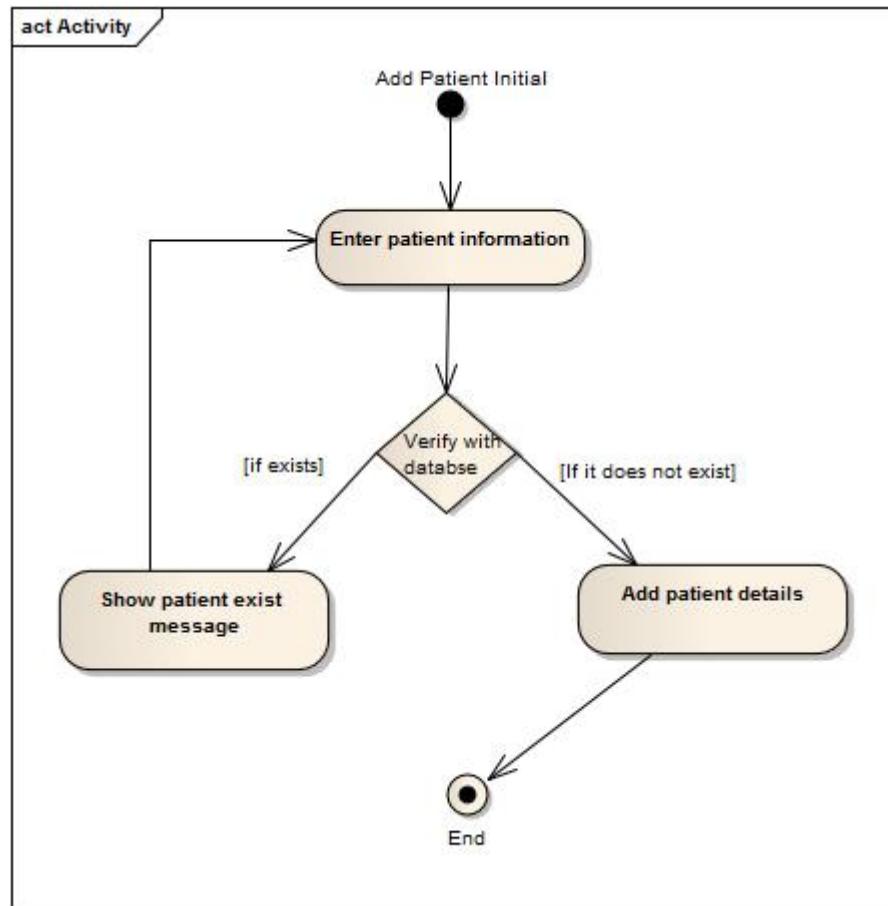
<b>Attribute name</b>	<b>Type</b>	<b>Description</b>
username	VARCHAR(15)	Unique identification of the user in the system
assignID	INTEGER	Unique identification of the goals assigned to a user in the system
month	INTEGER	
week1	INTEGER	Score for week 1 of the month
week2	INTEGER	Score for week 2 of the month
week3	INTEGER	Score for week 3 of the month
week4	INTEGER	Score for week 4 of the month
week5	INTEGER	Score for week 5 of the month
monthlyProgressPercentage	DOUBLE	

## 4. Activity Diagram

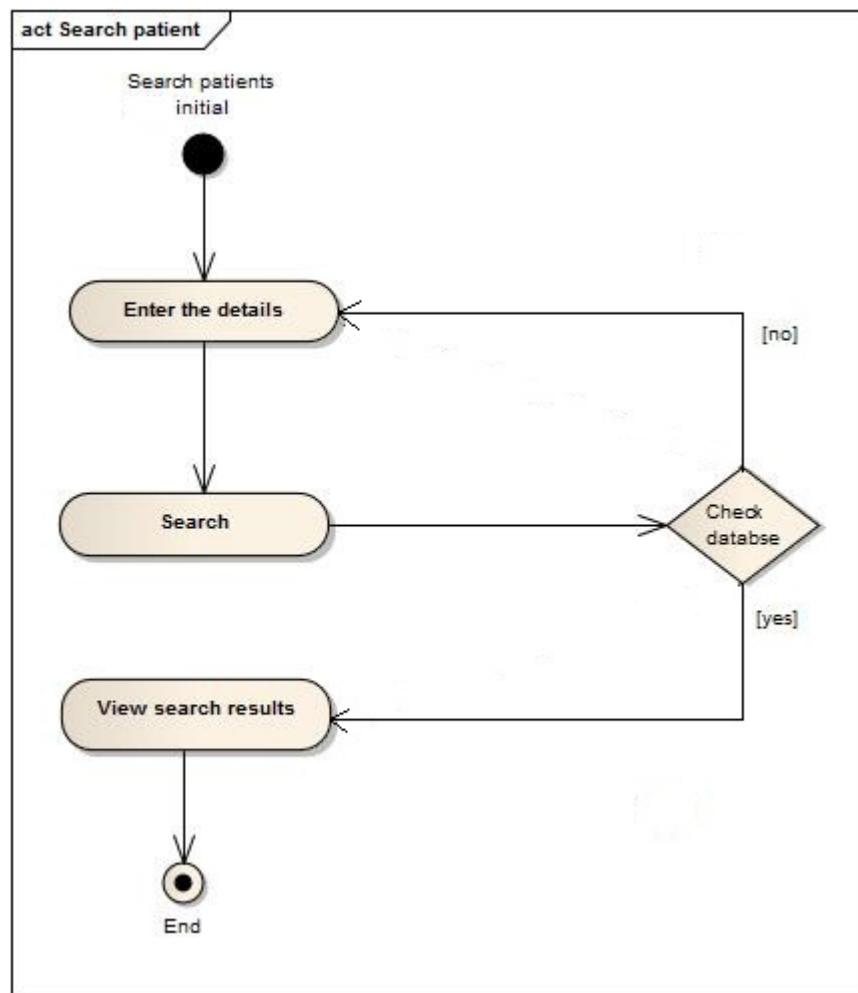
### 4.1 Add Goal



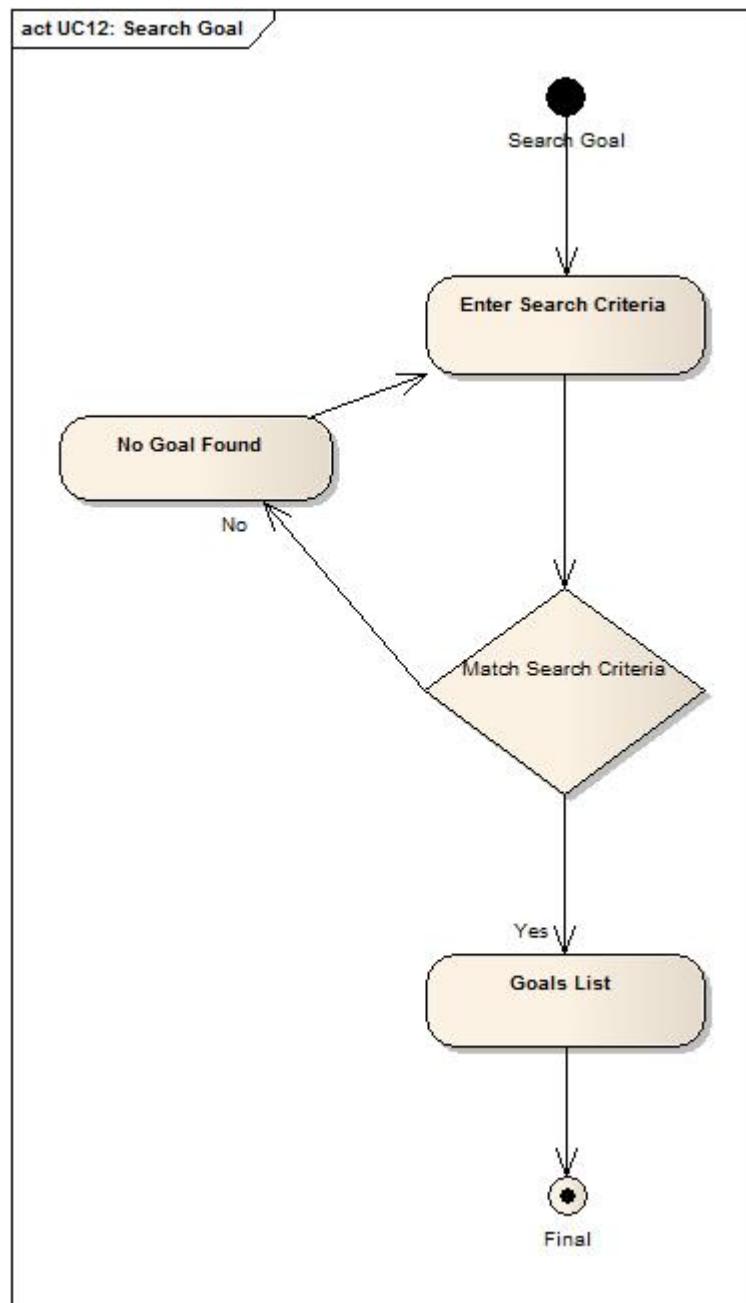
## 4.2 Add Patient



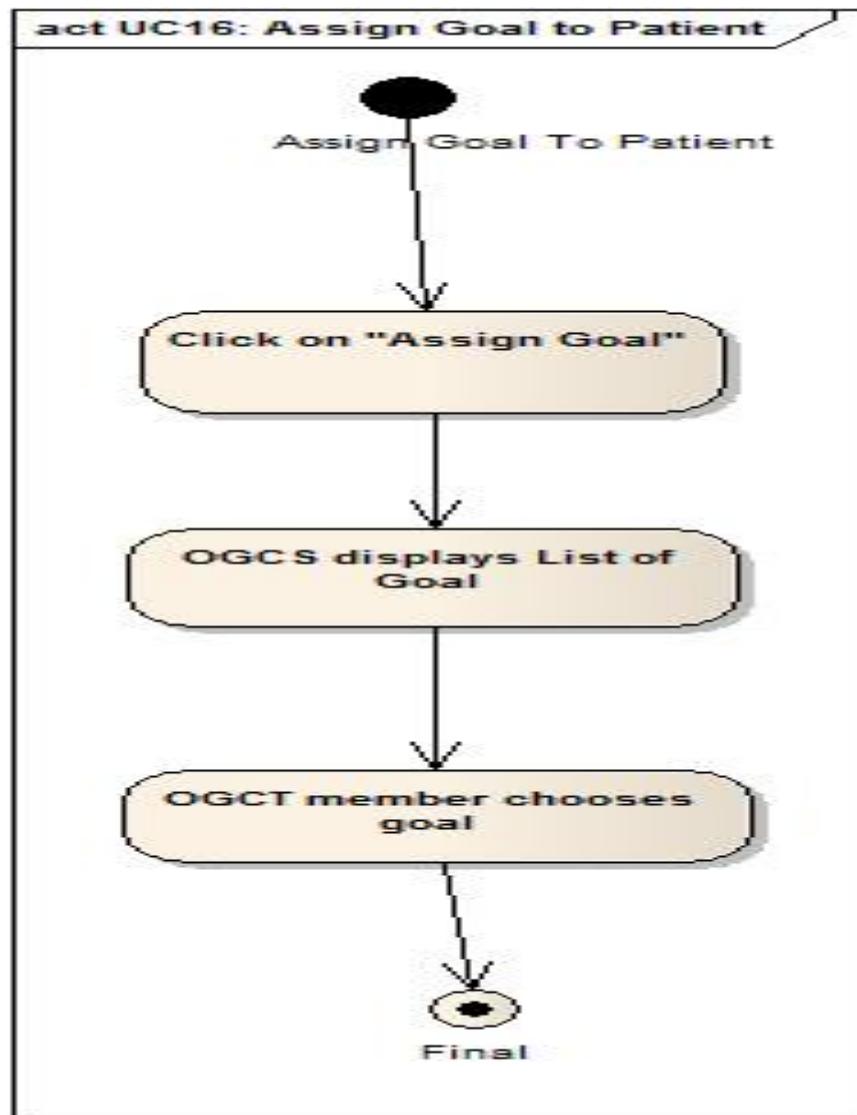
### 4.3 Search Patient



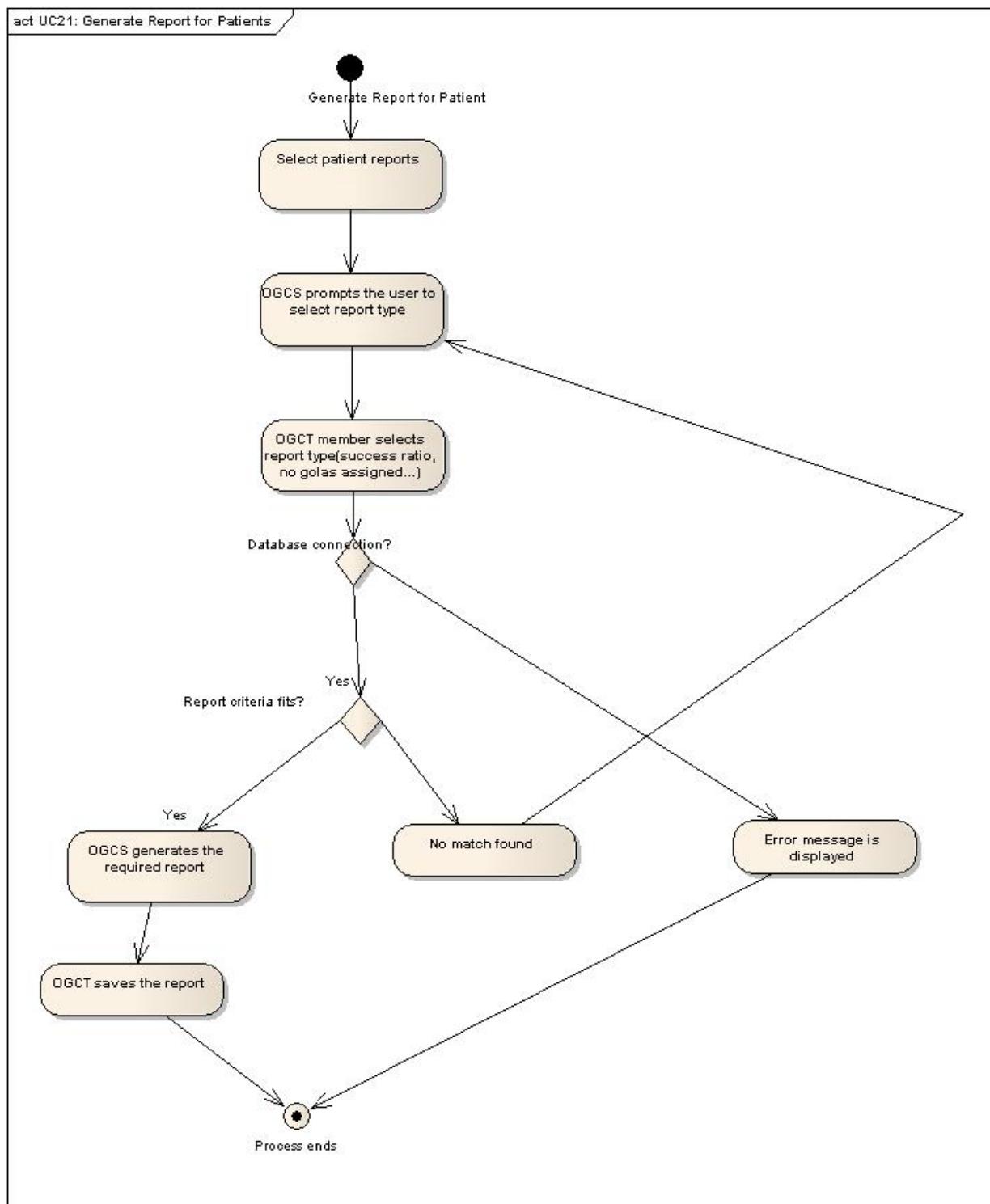
#### 4. 4 Search Goal



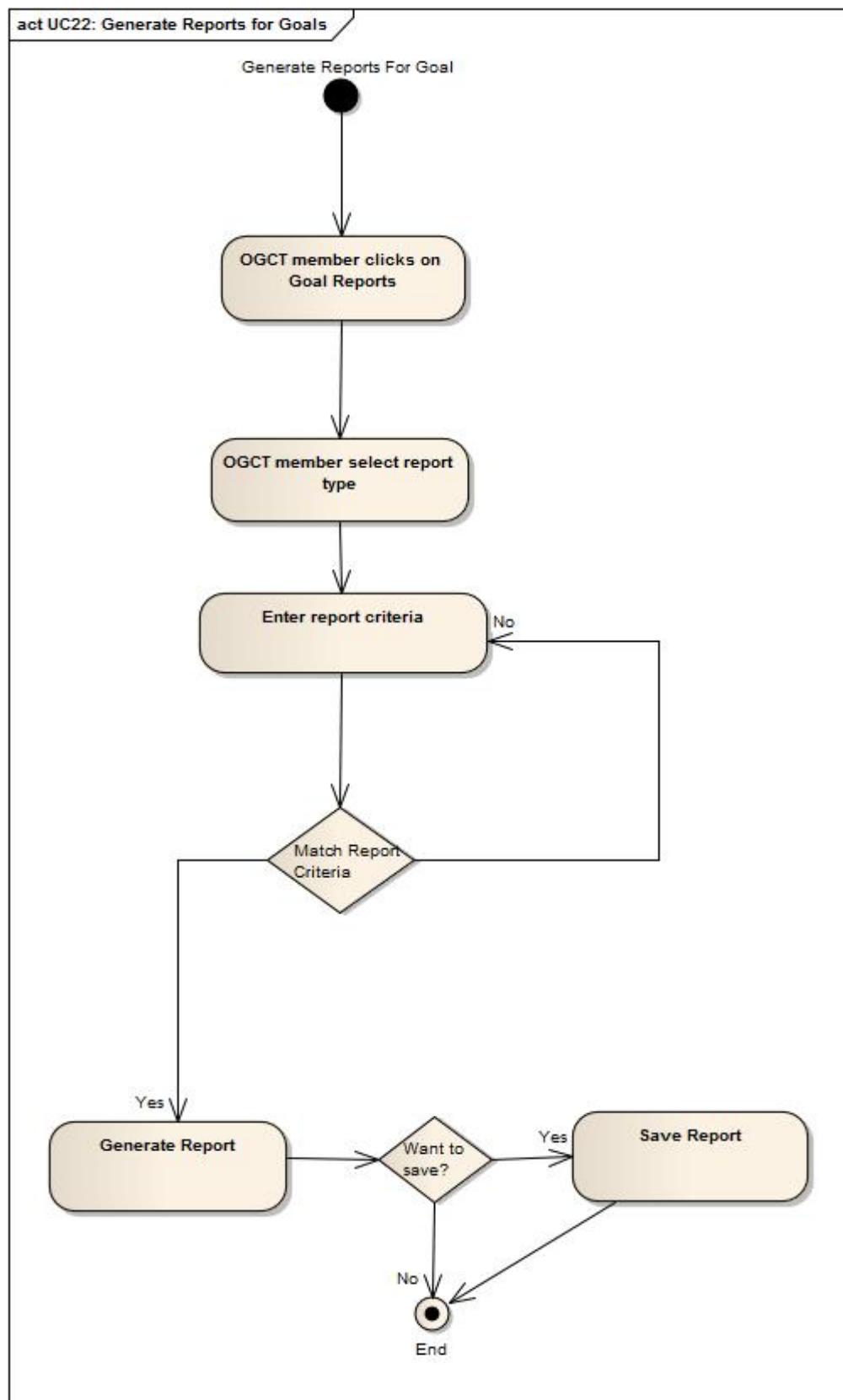
#### 4.5 Assign Goal To Patient:



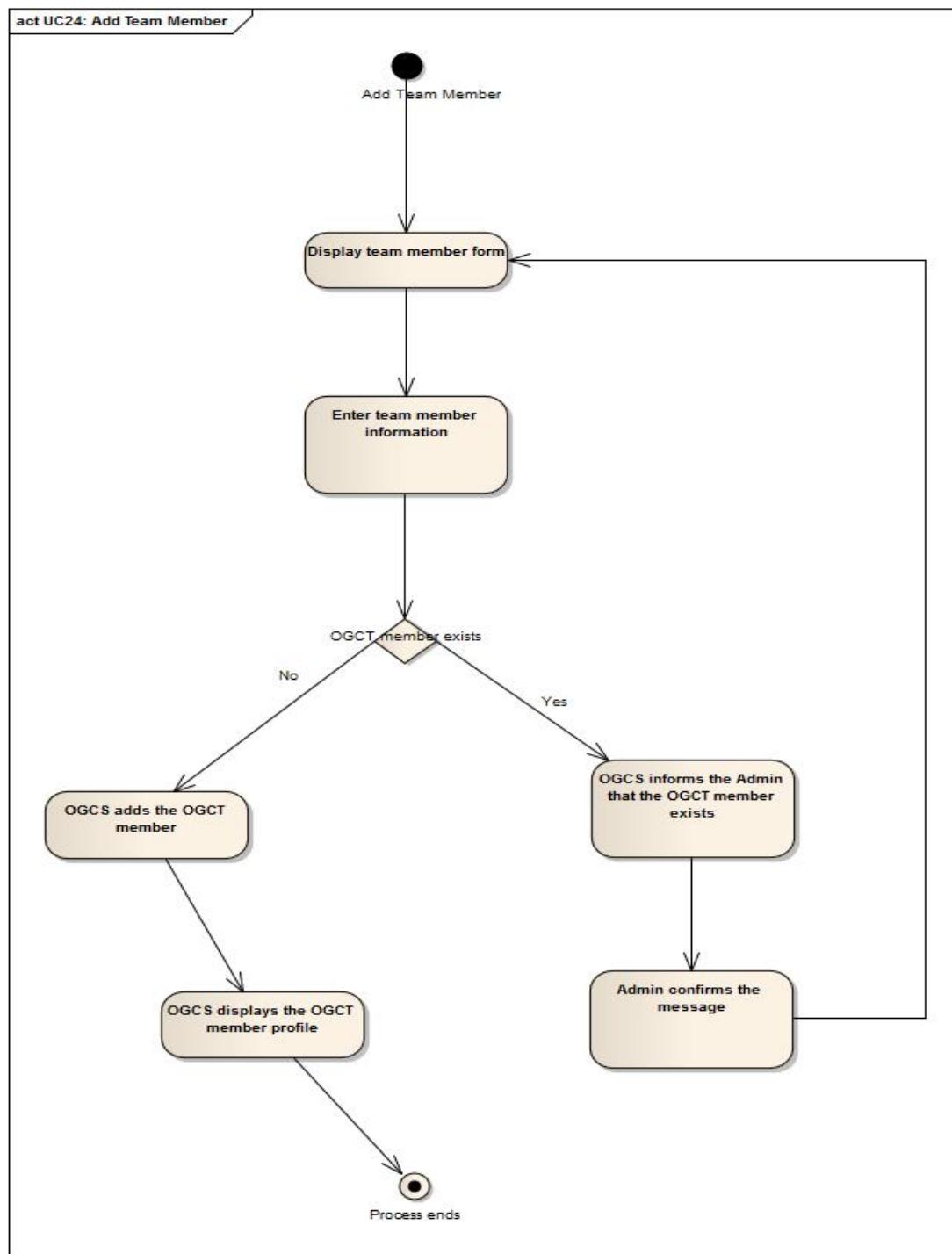
#### 4.6 Generate Report For Patient:



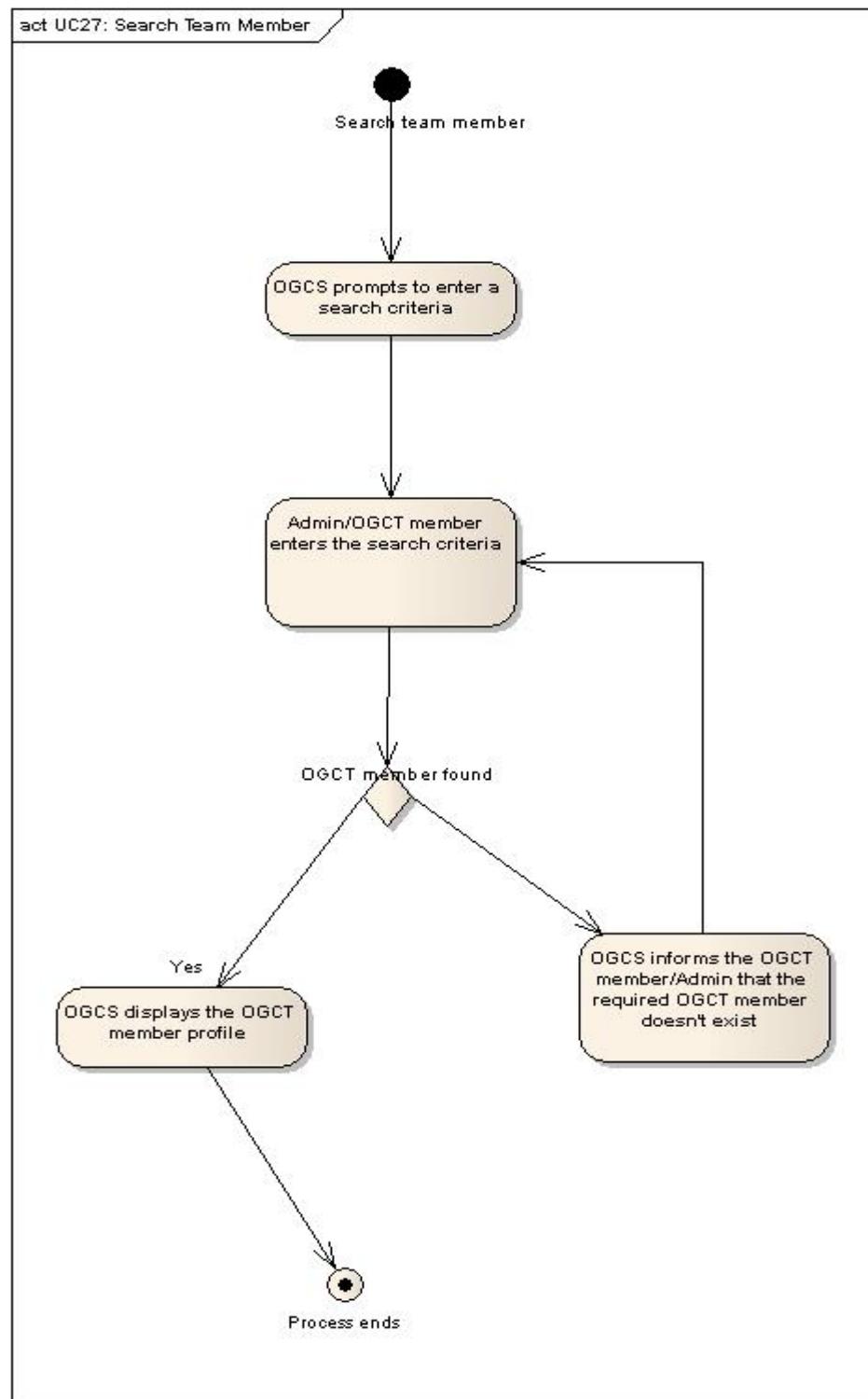
## 4.7 Generate Reports For Goal



#### 4.8 Add Team Member:



#### 4.9 Search Team Member:

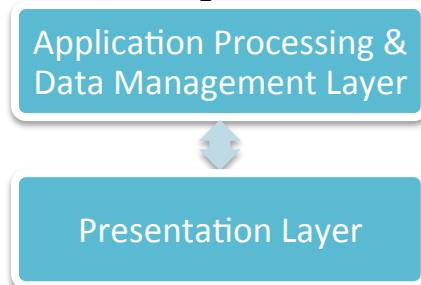


## 5. System Architecture

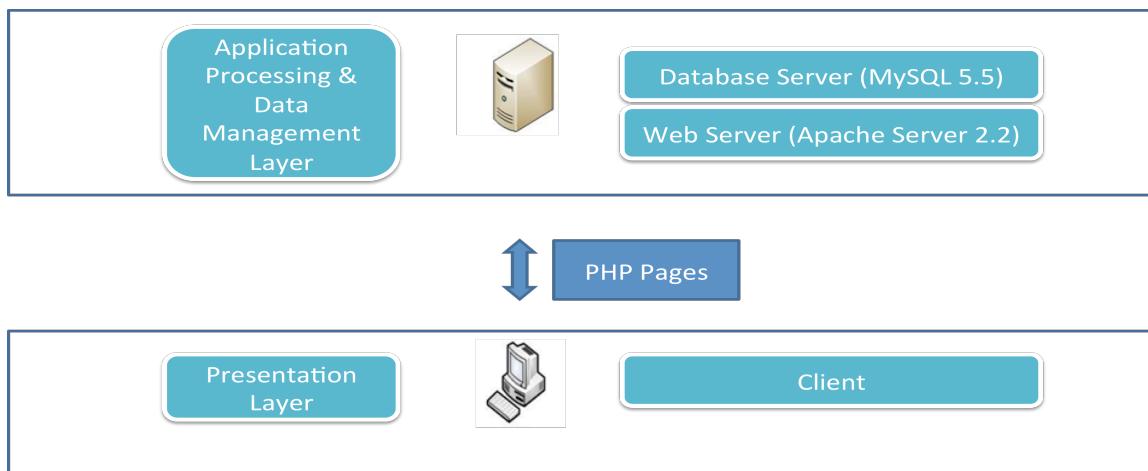
### 5.1 Thin Client-Server Architecture:

In this architecture the client and server are represented in two layers, which are:

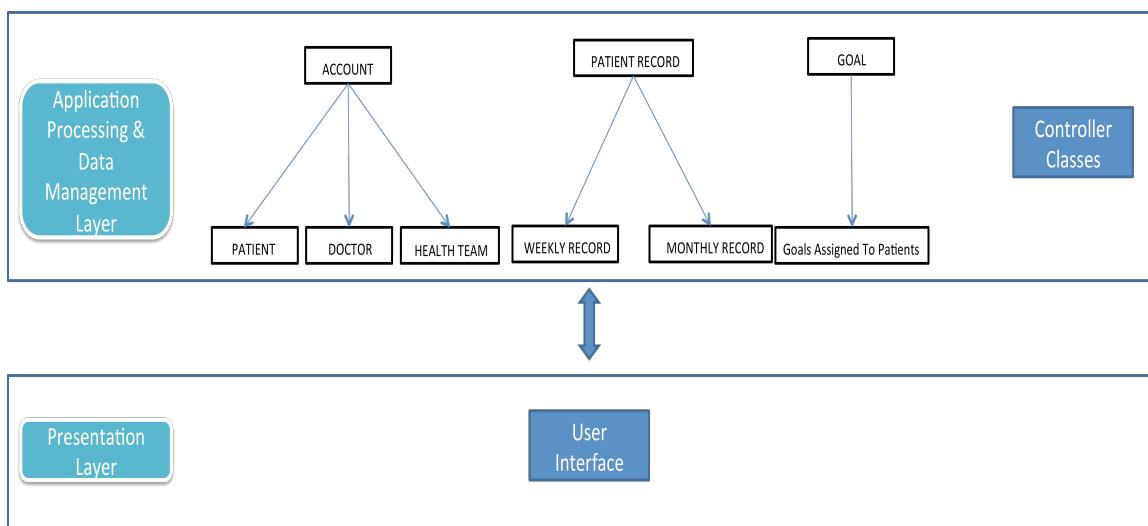
- 1) Presentation Layer (client): responsible for running the presentation software.
- 2) Application Processing and Data Management Layer (server): responsible for application processing and data management.



The detailed architecture will be as follows:



The classes will be distributed in the layers as follows:



## 5.2 3-Tier Client-Server Architecture:

In this architecture the client and server are represented in three layers, which are:

- 1) Presentation Layer (client)

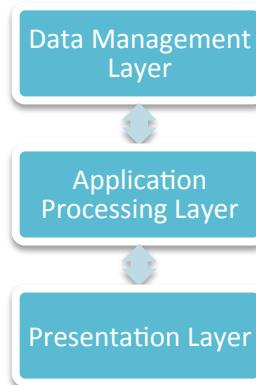
This is the topmost layer in this architecture. It represents the interface which is responsible for the communication with the application processing tier and displays the output to the client.

- 2) Application Processing (server)

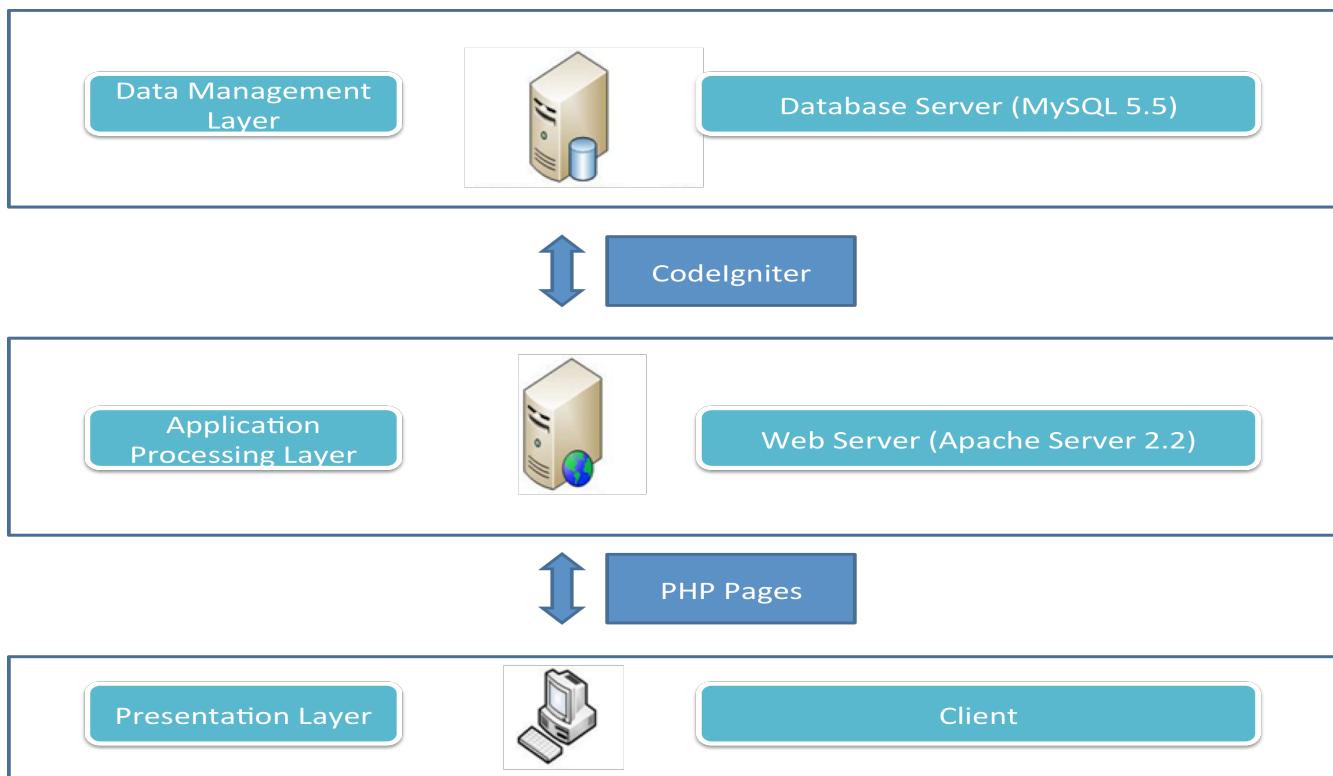
This layer coordinates the processing and commands, makes logical decisions, performs calculations and moves data between the presentation and data layers.

- 3) Data Management Layer (server)

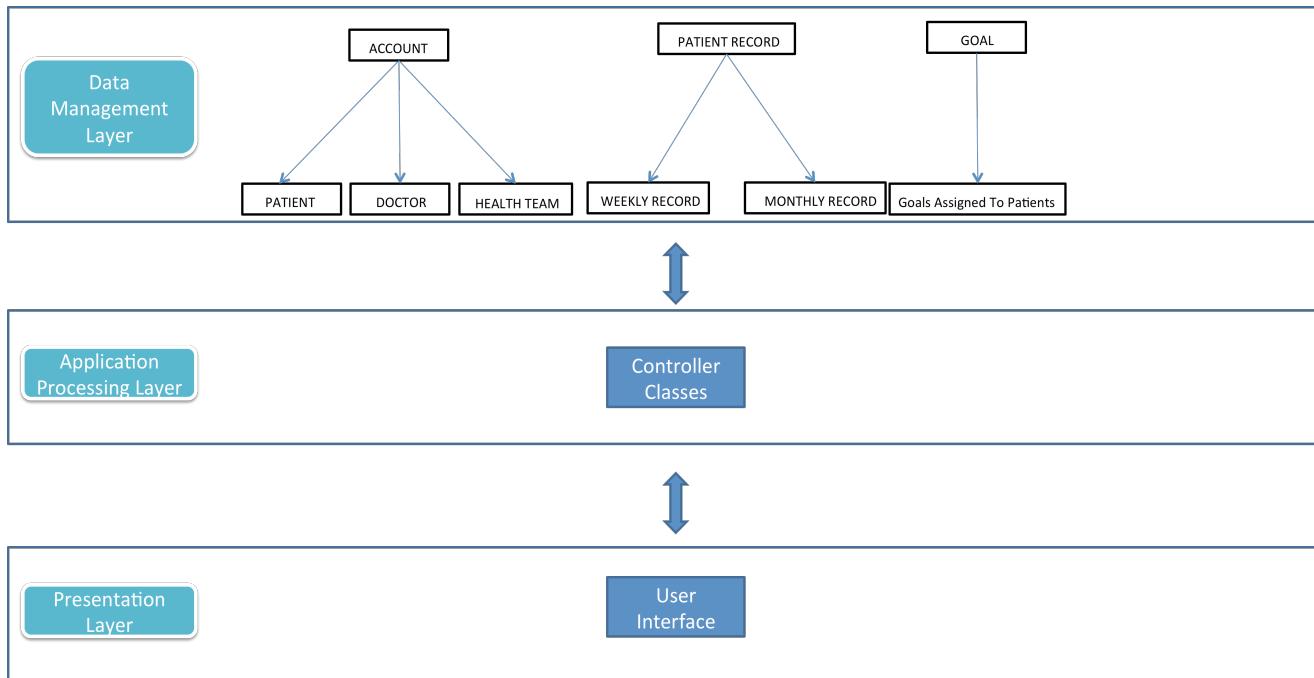
This layer is responsible for storing and retrieving data into and from the database. It passes the information to the application layer for processing.



The detailed architecture will be as follows:



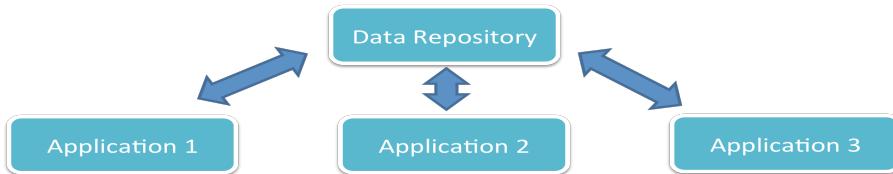
The classes will be distributed in the layers as follows:



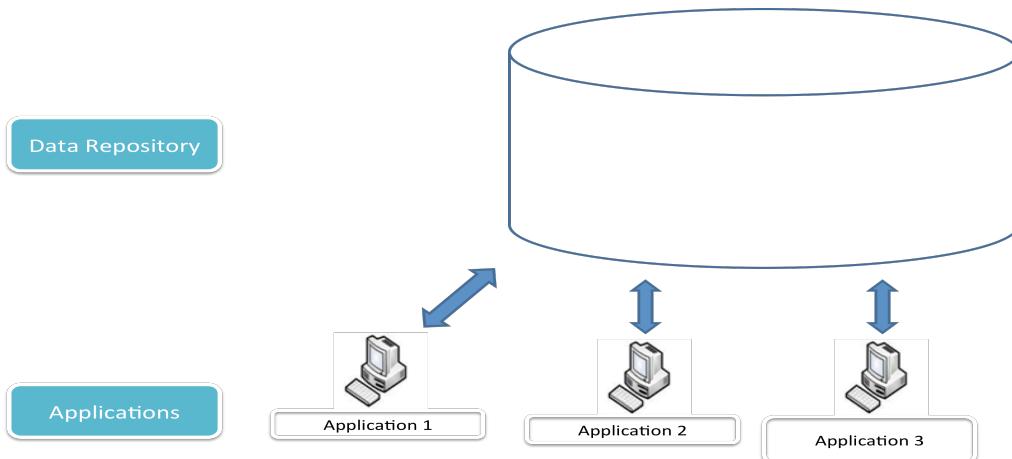
### 5.3 Repository Architecture:

In this architecture, applications are allowed to exchange data by having a shared repository of data that is accessed by these applications.

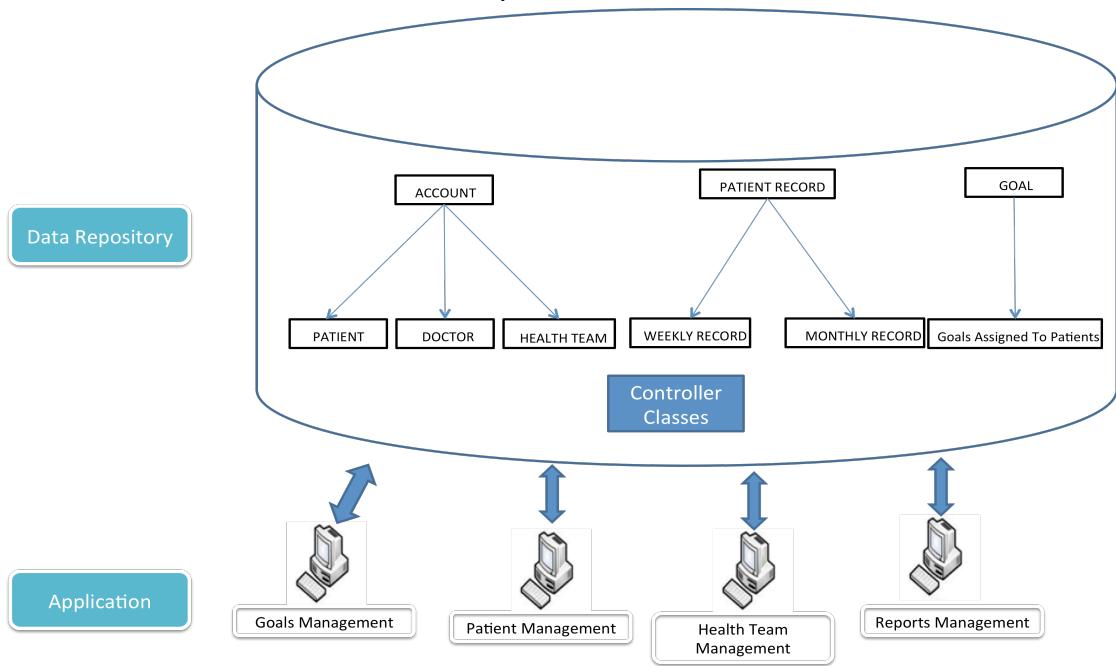
This architecture is helpful when there is a huge amount of data to be exchanged and the data repository is concerned with the data management processes. The applications are only concerned with querying the data repository to fetch the required information.



The detailed architecture will be as follows:



The classes will be distributed in the layers as follows:



#### **5.4 Chosen Alternative**

The architecture alternative that the OGCS will be based on is the *thin client architecture*, since the processing required by the server is not complicated and the database won't store huge amounts of data.

All of the application processing and data management is carried out in the server. The client is simply responsible for running the presentation software and requesting the required information.

## 6. Capability Matrix

Class \ Capability	Patient Profile Management	OGCT Profile Management	Goal Management	Goal Suggestions	Report Management
Profile	✓	✓	✗	✗	✗
Patient	✓	✗	✗	✗	✓
HealthTeam	✗	✓	✗	✗	✗
Goal	✗	✗	✓	✓	✓
PatientRecord	✓	✗	✗	✗	✓
PatientWeeklyRecord	✓	✗	✗	✗	✗
PatientMonthlyRecord	✓	✗	✗	✗	✗
GoalsAssignedToPatients	✓	✗	✗	✗	✗

## 7. White Box Test Cases

Method	setBMI( double bmi)
Class Name	Patient.
Test Case ID	TC1
Initial State	Bmi is zero.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type double
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC04: Delete Patient</li> </ul>
Test Input	Bmi of the patient. (x) Where x is a double value.
Expected Output	Bmi is stored into the system.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setBMI( double bmi)
Class Name	Patient.
Test Case ID	TC 2
Initial State	Bmi is zero.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type double.
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC04: Delete Patient</li> </ul>
Test Input	Bmi of the patient (xy) where x is a double value and y is string.
Expected Output	Bmi is rejected.
Failure	If system accepts the input and stores it.
Priority	High.
Test Type	Functional.

Method	setHeight(double height)
Class Name	Patient.
Test Case ID	TC 3
Initial State	Height is zero.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type double
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC04: Delete Patient</li> </ul>
Test Input	Height of the patient. (x) Where x is a double value.
Expected Output	Height value is accepted.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setHeight(double height)
Class Name	Patient.
Test Case ID	TC 4
Initial State	Height is zero.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type double
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC04: Delete Patient</li> </ul>
Test Input	Height of the patient (xy) where x is a double value and y is string.
Expected Output	Height value is rejected.
Failure	If the system accepts the value contains a string or out of range.
Priority	High.
Test Type	Functional.

Method	setStartDate(Date startDate)
Class Name	Patient.
Test Case ID	TC 5.
Initial State	StartDate is empty.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a data of type date
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC04: Delete Patient</li> </ul>
Test Input	<p>The startdate of the patient (dd/mm/yyyy) where :</p> <ul style="list-style-type: none"> <li>• dd is value between (0-31).</li> <li>• mm is value between (1-12).</li> <li>• yyyy is value between (2011-2050).</li> </ul> <p>Test input : 2011</p>
Expected Output	startdate value is accepted.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setStartDate(Date startDate)
Class Name	Patient.
Test Case ID	TC 6
Initial State	StartDate is empty.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a data of type Date.
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC04: Delete Patient</li> </ul>
Test Input	<p>The startdate of the patient (dd/mm/yyyy) where :</p> <ul style="list-style-type: none"> <li>• dd is value between (0-31).</li> <li>• mm is value between (1-12).</li> <li>• yyyy is value between (1900-2012).</li> </ul> <p>Test input : 1990</p>
Expected Output	startDate value is rejected.
Failure	If the system accepts the value which has less than 2011 or contains string.
Priority	High.
Test Type	Functional.

Method	setStatus(string status)
Class Name	Patient.
Test Case ID	TC 7.
Initial State	Status is null.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type String
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC04: Delete Patient</li> </ul>
Test Input	Status of the patient must be string value contains only letters. Test input: good standard
Expected Output	Status value is accepted.
Failure	No Failure.
Priority	High.
Test Type	Functional.

Method	setStatus(string status)
Class Name	Patient.
Test Case ID	TC 8
Initial State	Status is null.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type String
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC04: Delete Patient</li> </ul>
Test Input	Status of the patient must be string value contains only letters. Test input: good standard%123
Expected Output	Status value is rejected.
Failure	If the system accepts the value which contains numbers.
Priority	High.
Test Type	Functional.

Method	setWeight( double weight)
Class Name	Patient.
Test Case ID	TC 9
Initial State	Weight is zero.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type double.
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC04: Delete Patient</li> </ul>
Test Input	Weight of the patient. (x) Where x is a double value.
Expected Output	Weight value is accepted.
Failure	No Failure.
Priority	High.
Test Type	Functional.

Method	setWeight( double weight)
Class Name	Patient.
Test Case ID	TC 10
Initial State	Weight is zero.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type double.
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC04: Delete Patient</li> </ul>
Test Input	Weight of the patient (xy) where x is a double value and y is string. Test Input: 21ahm
Expected Output	Weight value is rejected.
Failure	If the system accepts the value which contains letters.
Priority	High.
Test Type	Functional.

Method	setGoalCreatorUserName(String goalCreatorUserName)
Class Name	Goal.
Test Case ID	TC 11
Initial State	GoalCreatorUserName is null.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type String
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC09 : Add Goal</li> <li>• UC10: Delete Goal</li> <li>• UC11: Modify Goal</li> </ul>
Test Input	GoalCreatorUserNameis of the goal must be string value contains only letters.
Expected Output	GoalCreatorUserName value is accepted.
Failure	No Failure.
Priority	High.
Test Type	Functional.

Method	setGoalCreatorUserName(String goalCreatorUserName)
Class Name	Goal.
Test Case ID	TC 12
Initial State	GoalCreatorUserName is null.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type String
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC09 : Add Goal</li> <li>• UC10: Delete Goal</li> <li>• UC11: Modify Goal</li> </ul>
Test Input	GoalCreatorUserName of the goal must be string value contains only letters. It cannot contain number.
Expected Output	GoalCreatorUserNameis value is rejected.
Failure	If system accepts the GoalCreatorUserNameis which does not applicable according to the rules.
Priority	High.
Test Type	Functional.

Method	setGoalDescription( string goalDescription)
Class Name	Goal.
Test Case ID	TC 13
Initial State	goalDescription is null.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type String
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC09 : Add Goal</li> <li>• UC10: Delete Goal</li> <li>• UC11: Modify Goal</li> </ul>
Test Input	GoalCreatorUserName of the goal can be string value contains both letters and numbers.
Expected Output	GoalCreatorUserName value is accepted.
Failure	No Failure.
Priority	High.
Test Type	Functional.

Method	setGoalName(String goalName)
Class Name	Goal.
Test Case ID	TC 14
Initial State	goalName is null.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type String
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC09 : Add Goal</li> <li>• UC10: Delete Goal</li> <li>• UC11: Modify Goal</li> </ul>
Test Input	goalName of the goal must be string value contains only letters. It cannot contain number.
Expected Output	goalName value is accepted.
Failure	No Failure.
Priority	High.
Test Type	Functional.

Method	setGoalName(String goalName)
Class Name	Goal.
Test Case ID	TC 15
Initial State	goalName is null.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type String
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC09 : Add Goal</li> <li>• UC10: Delete Goal</li> <li>• UC11: Modify Goal</li> </ul>
Test Input	goalName of the goal must be string value contains only letters. It cannot contain number.
Expected Output	goalName value is accepted.
Failure	If system accepts the goalName which does not applicable according to the rules. If it contains number.
Priority	High.
Test Type	Functional.

Method	setMaxPointScale(double maxPointScale)
Class Name	Goal.
Test Case ID	TC 16
Initial State	maxPointScale is zero.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type double.
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC09 : Add Goal</li> <li>• UC10: Delete Goal</li> <li>• UC11: Modify Goal</li> </ul>
Test Input	maxPointScale of the goal must be double value. Test input : 10
Expected Output	maxPointScale value is accepted.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setMaxPointScale(double maxPointScale)
Class Name	Goal.
Test Case ID	TC 17
Initial State	maxPointScale is zero.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type double.
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC09 : Add Goal</li> <li>• UC10: Delete Goal</li> <li>• UC11: Modify Goal</li> </ul>
Test Input	maxPointScale of the goal must be double value not string. Test input : 10c
Expected Output	maxPointScale value is rejected.
Failure	If system accepts the maxPointScale which does not applicable according to the rules. If it contains letters.
Priority	High.
Test Type	Functional.

Method	setMinPointScale(double minPointScale)
Class Name	Goal.
Test Case ID	TC 18
Initial State	minPointScale is zero.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type double.
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC09 : Add Goal</li> <li>• UC10: Delete Goal</li> <li>• UC11: Modify Goal</li> </ul>
Test Input	minPointScale of the goal must be double value. Test input : 10
Expected Output	minPointScale value is accepted.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setMinPointScale(double minPointScale)
Class Name	Goal.
Test Case ID	TC 19
Initial State	minPointScale is zero.
Author	Sameer Al-Amri
Pre-conditions (if applicable)	It must be a primitive data of type double.
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC09 : Add Goal</li> <li>• UC10: Delete Goal</li> <li>• UC11: Modify Goal</li> </ul>
Test Input	minPointScale of the goal must be double value. Test input : 12bv
Expected Output	minPointScale value is rejected.
Failure	If system accepts the minPointScale which does not applicable according to the rules. If it contains letters or it greater than maximum.
Priority	High.
Test Type	Functional.

Method	setUsername(String username)
Class Name	Profile
Test Case ID	TC20
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC01: Login</li> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	Username is set to a string value.
Expected Output	The entered string is assigned to username.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setUsername(String username)
Class Name	Profile
Test Case ID	TC21
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC01: Login</li> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	A valid string is set to username.
Expected Output	The entered string is not assigned to username.
Failure	If the entered username is assigned.
Priority	High.
Test Type	Functional.

Method	setPassword(String password)
--------	------------------------------

Class Name	Profile
Test Case ID	TC22
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC01: Login</li> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	A valid string is set to password.
Expected Output	The entered string is assigned to password.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setPassword(String password)
Class Name	Profile
Test Case ID	TC23
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC01: Login</li> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	An invalid string is set to password.
Expected Output	The entered string is not assigned to password.
Failure	If the entered password is assigned.
Priority	High.
Test Type	Functional.

Method	setAramcOID(long aramcOID)
Class Name	Profile

Test Case ID	TC24
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	A valid long number is set to aramco id.
Expected Output	The entered number is assigned to aramco id.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setAramcoID(long aramcoID)
Class Name	Profile
Test Case ID	TC25
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	A string is set to aramco id.
Expected Output	A message saying that aramco id can't be a string.
Failure	If the entered id is assigned.
Priority	High.
Test Type	Functional.

Method	setFirsName (String firstName)
Class Name	Profile

Test Case ID	TC26
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	firstName = "Ali"
Expected Output	"Ali" is assigned to firstName successfully.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setFirsName (String firstName)
Class Name	Profile
Test Case ID	TC27
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	firstName = "233"
Expected Output	A message saying that first name must be a valid name.
Failure	If the entered first name is assigned.
Priority	High.
Test Type	Functional.

Method	setLastName(String lastName)
Class Name	Profile
Test Case ID	TC28

Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	lastName = "Al-majed"
Expected Output	"Al-majed" is set to last name successfully.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setLastName(String lastName)
Class Name	Profile
Test Case ID	TC29
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	lastName = "12al-jabir"
Expected Output	A message saying that last name must be a valid name.
Failure	If the entered last name is assigned.
Priority	High.
Test Type	Functional.

Method	setGender(String gender)
Class Name	Profile
Test Case ID	TC30
Initial State	none

Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	Gender= "Male"
Expected Output	"Male" is assigned successfully.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setGender(String gender)
Class Name	Profile
Test Case ID	TC31
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	Gender= "Female"
Expected Output	"Female" is assigned successfully.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setGender(String gender)
Class Name	Profile
Test Case ID	TC32
Initial State	none

Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	Gender = "458"
Expected Output	A message saying that gender must equal to male or female.
Failure	"458" is assigned to gender.
Priority	High.
Test Type	Functional.

Method	setGender(String gender)
Class Name	Profile
Test Case ID	TC33
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	Gender = "458"
Expected Output	A message saying that gender must equal to male or female.
Failure	"458" is assigned to gender.
Priority	High.
Test Type	Functional.

Method	setMobile(long mobile)
Class Name	Profile
Test Case ID	TC34
Initial State	none

Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	Mobile= 0554336278
Expected Output	The entered mobile number is assigned successfully.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setMobile(long mobile)
Class Name	Profile
Test Case ID	TC35
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	Mobile= 055433
Expected Output	A message saying that the entered mobile number is not valid.
Failure	The entered mobile number is assigned.
Priority	High.
Test Type	Functional.

Method	setMobile(long mobile)
Class Name	Profile
Test Case ID	TC36
Initial State	none

Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	Mobile= z554336278
Expected Output	A message saying that the entered mobile number is not valid.
Failure	The entered mobile number is assigned.
Priority	High.
Test Type	Functional.

Method	setDateOfBirth(Date dateOfBirth)
Class Name	Profile
Test Case ID	TC37
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	dateOfBirth = 19-05-1980
Expected Output	The entered date is assigned to dateOfBirth successfully.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setDateOfBirth(Date dateOfBirth)
Class Name	Profile
Test Case ID	TC38
Initial State	none

Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	dateOfBirth = oq-05-1980
Expected Output	A message saying the entered date is not valid.
Failure	The entered date is assigned.
Priority	High.
Test Type	Functional.

Method	setEmail(String email)
Class Name	Profile
Test Case ID	TC39
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	Email = "ab2000@hotmail.com"
Expected Output	The entered email is assigned successfully.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setEmail(String email)
Class Name	Profile
Test Case ID	TC40
Initial State	none
Author	Saeed Al-Tuwaileb

Pre-conditions (if applicable)	none
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC02 : Add Patient</li> <li>• UC03: Edit Patient</li> <li>• UC24: Add Team Member</li> <li>• UC26: Edit Team Member</li> </ul>
Test Input	Email = "ab20# hotmail.com"
Expected Output	A message saying that the entered email is not valid email address.
Failure	The entered email is assigned.
Priority	High.
Test Type	Functional.

Method	login(String username, String password)
Class Name	Profile
Test Case ID	TC41
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	User is not logged-in.
Use Case (if applicable)	<ul style="list-style-type: none"> <li>• UC01: Login</li> </ul>
Test Input	Valid username and password are entered.
Expected Output	The user is directed to the main screen.
Failure	No failure
Priority	High.
Test Type	Functional.

Method	login(String username, String password)
Class Name	Profile
Test Case ID	TC42
Initial State	none
Author	Saeed Al-Tuwaileb

Pre-conditions (if applicable)	User is not logged-in.
Use Case (if applicable)	• UC01: Login
Test Input	Invalid username or passwords are entered.
Expected Output	A message saying that the username or passwords are invalid.
Failure	User is directed to main screen.
Priority	High.
Test Type	Functional.

Method	logout()
Class Name	Profile
Test Case ID	TC43
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	User is logged-in.
Use Case (if applicable)	• UC01: Login
Test Input	Logout button is clicked.
Expected Output	The user is logged-out from OGCS.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	logout()
Class Name	Profile
Test Case ID	TC44
Initial State	none
Author	Saeed Al-Tuwaileb
Pre-conditions (if applicable)	User is logged-in.
Use Case (if applicable)	• UC01: Login
Test Input	Session expired.
Expected Output	The user is logged-out from OGCS.
Failure	No failure.
Priority	High.
Test Type	Functional.

Method	setScore_friday (int score_friday)
Class Name	PatientWeeklyRecord
Test Case ID	TC45
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2
Expected Output	The attribute “score_friday” is set to the entered value.
Failure	The attribute “score_friday” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_friday (int score_friday)
Class Name	PatientWeeklyRecord
Test Case ID	TC46
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-6
Expected Output	The attribute “score_friday” is not set to the entered value and the OGCS notifies the user that the input is rejected.
Failure	The attribute “score_friday” is set to the entered value and no notification is generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_friday (int score_friday)
Class Name	PatientWeeklyRecord
Test Case ID	TC47
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	X4f2.2
Expected Output	The attribute “score_friday” is not set to the entered value and the OGCS notifies the user that the input is rejected.
Failure	The attribute “score_friday” is set to the entered value and no notification is generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_friday (int score_friday)
Class Name	PatientWeeklyRecord
Test Case ID	TC48
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2.5
Expected Output	The attribute “score_friday” is not set to the entered value and the OGCS notifies the user that the input is rejected.
Failure	The attribute “score_friday” is set to the entered value and no notification is generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_monday (int score_monday)
Class Name	PatientWeeklyRecord
Test Case ID	TC49
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2
Expected Output	The attribute “score_monday” is set to the entered value.
Failure	The attribute “score_monday” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_monday (int score_monday)
Class Name	PatientWeeklyRecord
Test Case ID	TC50
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-2
Expected Output	The attribute “score_monday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_monday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_monday (int score_monday)
Class Name	PatientWeeklyRecord
Test Case ID	TC51
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2.5
Expected Output	The attribute “score_monday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_monday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_monday (int score_monday)
Class Name	PatientWeeklyRecord
Test Case ID	TC52
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	4cr.4
Expected Output	The attribute “score_monday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_monday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_saturday (int score_saturday)
Class Name	PatientWeeklyRecord
Test Case ID	TC53
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2
Expected Output	The attribute “score_saturday” is set to the entered value.
Failure	The attribute “score_saturday” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_saturday (int score_saturday)
Class Name	PatientWeeklyRecord
Test Case ID	TC54
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3.5
Expected Output	The attribute “score_saturday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_saturday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_saturday (int score_saturday)
Class Name	PatientWeeklyRecord
Test Case ID	TC55
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-3
Expected Output	The attribute “score_saturday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_saturday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_saturday (int score_saturday)
Class Name	PatientWeeklyRecord
Test Case ID	TC56
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	4cr.4
Expected Output	The attribute “score_saturday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_saturday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_sunday (int score_sunday)
Class Name	PatientWeeklyRecord
Test Case ID	TC57
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2
Expected Output	The attribute “score_sunday” is set to the entered value.
Failure	The attribute “score_sunday” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_sunday (int score_sunday)
Class Name	PatientWeeklyRecord
Test Case ID	TC58
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	4.4
Expected Output	The attribute “score_sunday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_sunday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_sunday (int score_sunday)
Class Name	PatientWeeklyRecord
Test Case ID	TC59
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-4
Expected Output	The attribute “score_sunday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_sunday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_sunday (int score_sunday)
Class Name	PatientWeeklyRecord
Test Case ID	TC60
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	4cde3
Expected Output	The attribute “score_sunday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_sunday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_thursday (int score_thursday)
Class Name	PatientWeeklyRecord
Test Case ID	TC61
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2
Expected Output	The attribute “score_thursday” is set to the entered value.
Failure	The attribute “score_thursday” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_thursday (int score_thursday)
Class Name	PatientWeeklyRecord
Test Case ID	TC62
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-3
Expected Output	The attribute “score_thursday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_thursday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_thursday (int score_thursday)
Class Name	PatientWeeklyRecord
Test Case ID	TC63
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3.5
Expected Output	The attribute “score_thursday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_thursday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_thursday (int score_thursday)
Class Name	PatientWeeklyRecord
Test Case ID	TC64
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3gfd21
Expected Output	The attribute “score_thursday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_thursday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_tuesday (int score_tuesday)
Class Name	PatientWeeklyRecord
Test Case ID	TC65
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2
Expected Output	The attribute “score_tuesday” is set to the entered value.
Failure	The attribute “score_tuesday” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_tuesday (int score_tuesday)
Class Name	PatientWeeklyRecord
Test Case ID	TC66
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3.4
Expected Output	The attribute “score_tuesday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_tuesday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_tuesday (int score_tuesday)
Class Name	PatientWeeklyRecord
Test Case ID	TC67
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-4
Expected Output	The attribute “score_tuesday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_tuesday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_tuesday (int score_tuesday)
Class Name	PatientWeeklyRecord
Test Case ID	TC68
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3gt56
Expected Output	The attribute “score_tuesday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_tuesday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_wednesday (int score_wednesday)
Class Name	PatientWeeklyRecord
Test Case ID	TC69
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2
Expected Output	The attribute “score_wednesday” is set to the entered value.
Failure	The attribute “score_wednesday” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_wednesday (int score_wednesday)
Class Name	PatientWeeklyRecord
Test Case ID	TC70
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3.4
Expected Output	The attribute “score_wednesday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_wednesday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_wednesday (int score_wednesday)
Class Name	PatientWeeklyRecord
Test Case ID	TC71
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-3
Expected Output	The attribute “score_wednesday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_wednesday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_wednesday (int score_wednesday)
Class Name	PatientWeeklyRecord
Test Case ID	TC72
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	5dfd5
Expected Output	The attribute “score_wednesday” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_wednesday” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setTotalScore (int totalScore)
Class Name	PatientWeeklyRecord
Test Case ID	TC73
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	20
Expected Output	The attribute “totalScore” is set to the entered value.
Failure	The attribute “totalScore” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setTotalScore (int totalScore)
Class Name	PatientWeeklyRecord
Test Case ID	TC74
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-5
Expected Output	The attribute “totalScore” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “totalScore” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setTotalScore (int totalScore)
Class Name	PatientWeeklyRecord
Test Case ID	TC75
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	20.88
Expected Output	The attribute “totalScore” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “totalScore” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setTotalScore (int totalScore)
Class Name	PatientWeeklyRecord
Test Case ID	TC76
Author	Abdulaziz Alamoudi
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2rrr8
Expected Output	The attribute “totalScore” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “totalScore” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setWeeklyProgressPercentage (double weeklyProgressPercentage)
Class Name	PatientWeeklyRecord
Test Case ID	TC77
Author	Abdulaziz Alamoudi
Initial State	0.0
Pre-conditions (if applicable)	The entered value should be of type double (or integer because it will be converted automatically) and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	43
Expected Output	The attribute “weeklyProgressPercentage” is set to the entered value.
Failure	The attribute “weeklyProgressPercentage” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setWeeklyProgressPercentage (double weeklyProgressPercentage)
Class Name	PatientWeeklyRecord
Test Case ID	TC78
Author	Abdulaziz Alamoudi
Initial State	0.0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-56
Expected Output	The attribute “weeklyProgressPercentage” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “weeklyProgressPercentage” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setWeeklyProgressPercentage (double weeklyProgressPercentage)
Class Name	PatientWeeklyRecord
Test Case ID	TC79
Author	Abdulaziz Alamoudi
Initial State	0.0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	rrt56
Expected Output	The attribute “weeklyProgressPercentage” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “weeklyProgressPercentage” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setWeekNumber (int weekNumber)
Class Name	PatientWeeklyRecord
Test Case ID	TC80
Author	Abdulaziz Alamoudi
Initial State	1
Pre-conditions (if applicable)	The entered value should be of type int and greater than zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2
Expected Output	The attribute “weekNumber” is set to the entered value.
Failure	The attribute “weekNumber” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setWeekNumber (int weekNumber)
Class Name	PatientWeeklyRecord
Test Case ID	TC81
Author	Abdulaziz Alamoudi
Initial State	1
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-5
Expected Output	The attribute “weekNumber” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “weekNumber” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setWeekNumber (int weekNumber)
Class Name	PatientWeeklyRecord
Test Case ID	TC82
Author	Abdulaziz Alamoudi
Initial State	1
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	5.98
Expected Output	The attribute “weekNumber” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “weekNumber” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setWeekNumber (int weekNumber)
Class Name	PatientWeeklyRecord
Test Case ID	TC83
Author	Abdulaziz Alamoudi
Initial State	1
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3rr42
Expected Output	The attribute “weekNumber” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “weekNumber” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setMonth(int month): void
Class Name	PatientMonthlyRecord
Test Case ID	TC84
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero. It shouldn't exceed 12
Use Case (if applicable)	UC04: Edit Patient
Test Input	2
Expected Output	The attribute "month" is set to the entered value.
Failure	The attribute "month" is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setMonth(int month): void
Class Name	PatientMonthlyRecord
Test Case ID	TC85
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero. It shouldn't exceed 12
Use Case (if applicable)	UC04: Edit Patient
Test Input	-4
Expected Output	The attribute "month" is not set to the entered value and the OGCS notifies the user that the input is rejected.
Failure	The attribute "month" is set to the entered value and no notification is generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setMonth(int month): void
Class Name	PatientMonthlyRecord
Test Case ID	TC86
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero. It shouldn't exceed 12
Use Case (if applicable)	UC04: Edit Patient
Test Input	XXJ,k.
Expected Output	The attribute "month" is not set to the entered value and the OGCS notifies the user that the input is rejected.
Failure	The attribute "score_friday" is set to the entered value and no notification is generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setMonth(int month): void
Class Name	PatientMonthlyRecord
Test Case ID	TC87
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero. It shouldn't exceed 12
Use Case (if applicable)	UC04: Edit Patient
Test Input	2.5
Expected Output	The attribute "month" is not set to the entered value and the OGCS notifies the user that the input is rejected.
Failure	The attribute "month" is set to the entered value and no notification is generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setMonthlyProgressPercentage (double monthlylyProgressPercentage): void
Class Name	PatientMonthlyRecord
Test Case ID	TC88
Author	Yasir Al-Agl
Initial State	0.0
Pre-conditions (if applicable)	The entered value should be of type double (or integer because it will be converted automatically) and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	43
Expected Output	The attribute “monthlylyProgressPercentage” is set to the entered value.
Failure	The attribute “monthlylyProgressPercentage” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setMonthlyProgressPercentage (double monthlylyProgressPercentage): void
Class Name	PatientMonthlyRecord
Test Case ID	TC89
Author	Yasir Al-Agl
Initial State	0.0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-56
Expected Output	The attribute “monthlylyProgressPercentage” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “monthlylyProgressPercentage” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setMonthlyProgressPercentage (double monthlylyProgressPercentage): void
Class Name	PatientMonthlyRecord
Test Case ID	TC90
Author	Yasir Al-Agl
Initial State	0.0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	rrt56
Expected Output	The attribute “monthlylyProgressPercentage” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “monthlylyProgressPercentage” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week1(int score_week1): void
Class Name	PatientMonthlyRecord
Test Case ID	TC91
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2
Expected Output	The attribute “score_week1” is set to the entered value.
Failure	The attribute “score_week1” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week1(int score_week1): void
Class Name	PatientMonthlyRecord
Test Case ID	TC92
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3.4
Expected Output	The attribute “score_week1” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week1” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week1(int score_week1): void
Class Name	PatientMonthlyRecord
Test Case ID	TC93
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-4
Expected Output	The attribute “score_week1” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week1” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week1(int score_week1): void
Class Name	PatientMonthlyRecord
Test Case ID	TC94
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3gt56
Expected Output	The attribute “score_week1” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week1” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week2(int score_week2): void
Class Name	PatientMonthlyRecord
Test Case ID	TC95
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2

Expected Output	The attribute “score_week2” is set to the entered value.
Failure	The attribute “score_week2” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week2(int score_week2): void
Class Name	PatientMonthlyRecord
Test Case ID	TC96
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3.4
Expected Output	The attribute “score_week2” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week2” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week2(int score_week2): void
Class Name	PatientMonthlyRecord
Test Case ID	TC97
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-4
Expected Output	The attribute “score_week2” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week2” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week2(int score_week2): void
Class Name	PatientMonthlyRecord
Test Case ID	TC98
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3gt56
Expected Output	The attribute “score_week2” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week2” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week3(int score_week3): void
Class Name	PatientMonthlyRecord
Test Case ID	TC99
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2

Expected Output	The attribute “score_week3” is set to the entered value.
Failure	The attribute “score_week3” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week3(int score_week3): void
Class Name	PatientMonthlyRecord
Test Case ID	TC100
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3.4
Expected Output	The attribute “score_week3” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week3” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week3(int score_week3): void
Class Name	PatientMonthlyRecord
Test Case ID	TC101
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-4
Expected Output	The attribute “score_week3” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week3” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week3(int score_week3): void
Class Name	PatientMonthlyRecord
Test Case ID	TC102
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3gt56
Expected Output	The attribute “score_week3” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week3” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week4(int score_week4): void
Class Name	PatientMonthlyRecord
Test Case ID	TC103
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2

Expected Output	The attribute “score_week4” is set to the entered value.
Failure	The attribute “score_week4” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week4(int score_week4): void
Class Name	PatientMonthlyRecord
Test Case ID	TC104
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3.4
Expected Output	The attribute “score_week4” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week4” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week4(int score_week4): void
Class Name	PatientMonthlyRecord
Test Case ID	TC105
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-4
Expected Output	The attribute “score_week4” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week4” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week4(int score_week4): void
Class Name	PatientMonthlyRecord
Test Case ID	TC106
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3gt56
Expected Output	The attribute “score_week4” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week4” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week5(int score_week5): void
Class Name	PatientMonthlyRecord
Test Case ID	TC106
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	2

Expected Output	The attribute “score_week5” is set to the entered value.
Failure	The attribute “score_week5” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week5(int score_week5): void
Class Name	PatientMonthlyRecord
Test Case ID	TC107
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3.4
Expected Output	The attribute “score_week5” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week5” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week5(int score_week5): void
Class Name	PatientMonthlyRecord
Test Case ID	TC108
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	-4
Expected Output	The attribute “score_week5” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week5” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setScore_week5(int score_week5): void
Class Name	PatientMonthlyRecord
Test Case ID	TC109
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero.
Use Case (if applicable)	UC04: Edit Patient
Test Input	3gt56
Expected Output	The attribute “score_week5” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “score_week5” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setFrequency(int frequency): void
Class Name	GoalsAssignedToPatients
Test Case ID	TC110
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero. It shouldn't exceed 7
Use Case (if applicable)	UC16: Assign goal to patient

Test Input	2
Expected Output	The attribute “frequency” is set to the entered value.
Failure	The attribute “ frequency” is not set to the entered value.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setFrequency(int frequency): void
Class Name	GoalsAssignedToPatients
Test Case ID	TC111
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero. It shouldn't exceed 7
Use Case (if applicable)	UC16: Assign goal to patient
Test Input	34
Expected Output	The attribute "frequency" is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute "frequency" is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setFrequency(int frequency): void
Class Name	GoalsAssignedToPatients
Test Case ID	TC112
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero. It shouldn't exceed 7
Use Case (if applicable)	UC16: Assign goal to patient
Test Input	-4
Expected Output	The attribute "frequency" is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute "frequency" is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional

Method	setFrequency(int frequency): void
Class Name	GoalsAssignedToPatients
Test Case ID	TC113
Author	Yasir Al-Agl
Initial State	0
Pre-conditions (if applicable)	The entered value should be of type int and greater than or equals to zero. It shouldn't exceed 7
Use Case (if applicable)	UC16: Assign goal to patient
Test Input	3gt56
Expected Output	The attribute “frequency” is not set to the entered value and the user is notified that the input is rejected.
Failure	The attribute “frequency” is set to the entered value and the notification is not generated.
Priority (High/Medium/Low)	High
Test Type (Functional, Performance, stress, etc.)	Functional