GBM Fitness

Software Requirements Specification

Software Engineering Project

Version 1.0

Group Id: SE-PID-12

Group Members: 2018-CS-52

2018-CS-65

2018-CS-100

Supervisor Name : Ma'am Taliah Tajamul

<div align="center">

Department of Computer Science
University of Engineering and Technology Lahore

</div>

Table of Contents

• **Introduction**

Purpose

The purpose of this document is to provide detailed description of the requirements (functional, non-functional and constraints etc.) of the Web Application "GBM Fitness"; an automated version of the manual system. This application is being designed to facilitate a fitness center to automate its operations of keeping records and store them in form of a large and user-friendly database for those who exercise on a regular basis and to keep notes on their progression.

The intended audience of this document is anyone who has a need for good quality services and online facilities to maintain good health whilst staying at home.

• *Scope*

GBM Fitness covers the whole room, it aims to provide a one stop place for people to develop their health and fitness goals under expert and skilled trainers. It's the best application for those Gym admins who manually manage the particular functionalities e.g. manage large data of members etc.They will be able to get it all done quickly through such project as ours. It provides much more ease to users such as; separate Login roles for Admin and Members, also enables its users to access and manage their workouts, diet plans at any time useful.
Our GBM Fitness is the best option for it.

• *Glossary*

Term	Definition
Admin	Any person who is allowed to manage project members, services and to perform specified roles.
Member	A person who is using the services of the gym and web

	application, who only has access to a specific one or more roles.
Trainer	A person who teaches fitness skills to members, prepares them for workout activities, and motivates them to reach their fitness goals.

- ***Technologies to be used***

Technology	Description
HTML	HTML stands for Hyper Text Markup Language. It is the standard markup language for creating and describing the structure of a Web It consists of a series of elements; to tell the browser how to display the content. (Front-end)
CSS3	CSS stands for Cascading Style Sheets. CSS3 is the latest evolution of the CSS language. It is used with HTML to create content structure. It is responsible for font properties, colors, text alignments, graphics, background images, tables and other components. (Front-end)
Bootstrap4	Bootstrap is a popular HTML, CSS and JavaScript front-end development framework, an open-source tool collection for creating websites and web applications. It solves cross-browser compatibility issue. (Front-end)
C#	C# is an object-oriented programming language developed by Microsoft that runs on the .NET Framework. It is used to develop web apps, desktop apps, mobile apps, games.
SQL Server	SQL stands for Standard Query Language. SQL is a standard language for storing, manipulating and retrieving data in databases.(Back-end)

Overview

The rest of this document describes the requirements that will go making this website functional. It outlines the type of database used, programming languages, user interface looks, etc.

- **General Description**

- *User Characteristics*

Admin:

Admin will maintain and manage the data in the application. After logging in to the application, he will be able to manage members, trainers, equipment's, products, assign workout and diet plans etc.

Unregistered User

Unregistered users will not be able to gain access to the application or use any of its features. They are required to register first in order to use their desired features

Members:

Members will gain full, non admin access to the application. Once a user is registered on application and agrees to the ToS, he will be able to perform specified roles i.e. he may view his profile, diet or workout plans, progress, calculate his/her BMI etc.

Trainer:

A trainer is an expert and skilled person that uses the online GBM Fitness application to teach fitness skills and health maintaining tips to members, prepares them for workout activities, and motivates them to reach their fitness goals.

- *General Constraints*

- There must be the use of compatible computers for smooth running of the application.

- Users must be agreed on Terms of Services to access their desired features.

- Only the authenticated user and registered members can use the application.

- Suitable Internet Connection should be acquired to perform roles etc.

- Data stored in database must be secured, authenticated and reliable.

- *Assumptions & Dependencies*

- It is assumed that compatible computers should be used before the application is monitored tested.

- It is assumed that Gym Terminal have the enough trained staff to take care of the application.

- It is assumed that suitable internet connection is available in order to their fitness log in or access any functionality of the application.

- The system is web-based only.

- Unregistered users will have no access to the application.

- Users will only be permitted to register and get membership once they agree to the terms of service agreement.

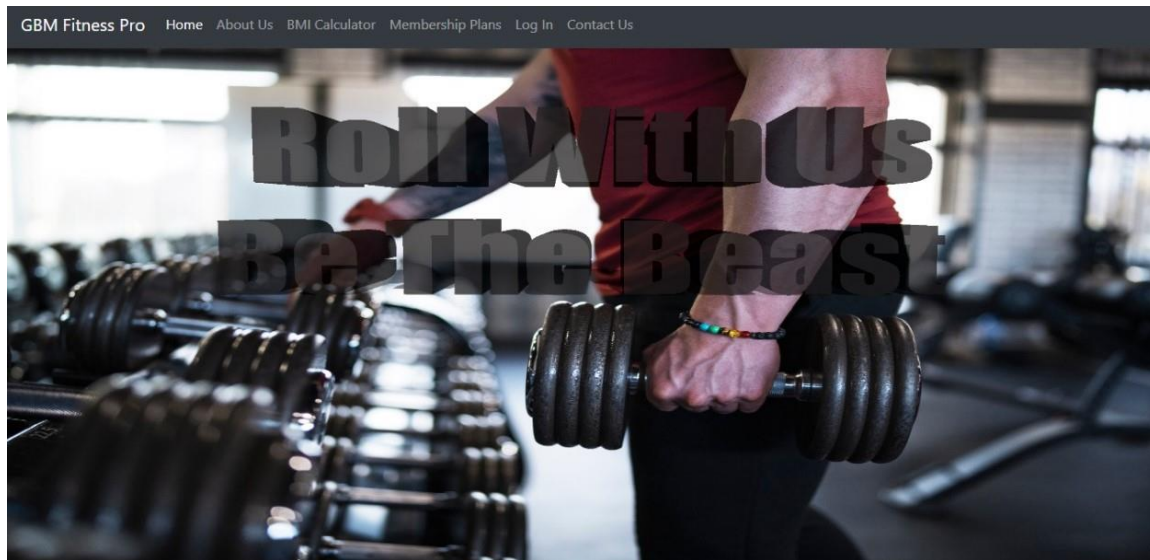- The website will require no plug-ins / special software to run.

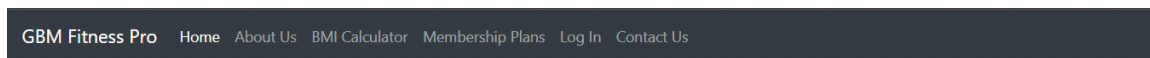# Specific Requirements

- *External Interface Requirements:*

- **User Interfaces**

Home Page

T1: As a user, I can visit home page of the website.

T2: As a user, I can learn more about the website operation and services.

T3

T4

GBM Fitness Pro   Home   About Us   BMI Calculator   Membership Plans   Log In   Contact Us

BMI Calculator

Body Weight(kg)

Body Height(cm)

Calculate

Your BMI

Membership Plans

Free Trial	6 Months/5,000pkr	1 Year/9,000pkr
7 Days	6 Months Membership Card	1 Year Membership Card
A Week Workout Plan	Weekly Workout Plans	Weekly Workout Plans
No Diet Plans	Weekly Diet Plans	Weekly Diet Plans
No Trainer	Personal Trainer	Personal Trainer

T3: As a user, I can calculate BMI.

T4: As a user, I can view membership plan.

T5

GBM Fitness Pro   Home   About Us   BMI Calculator   Membership Plans   Log In   Contact Us

TO CONTACT US

Whatsapp: 03414022676

Facebook: www.facebook.com/momeghias

instagram: instagram/momeghias07

Email: momeghias786@gmail.com

Register Now   Sign up!

T6
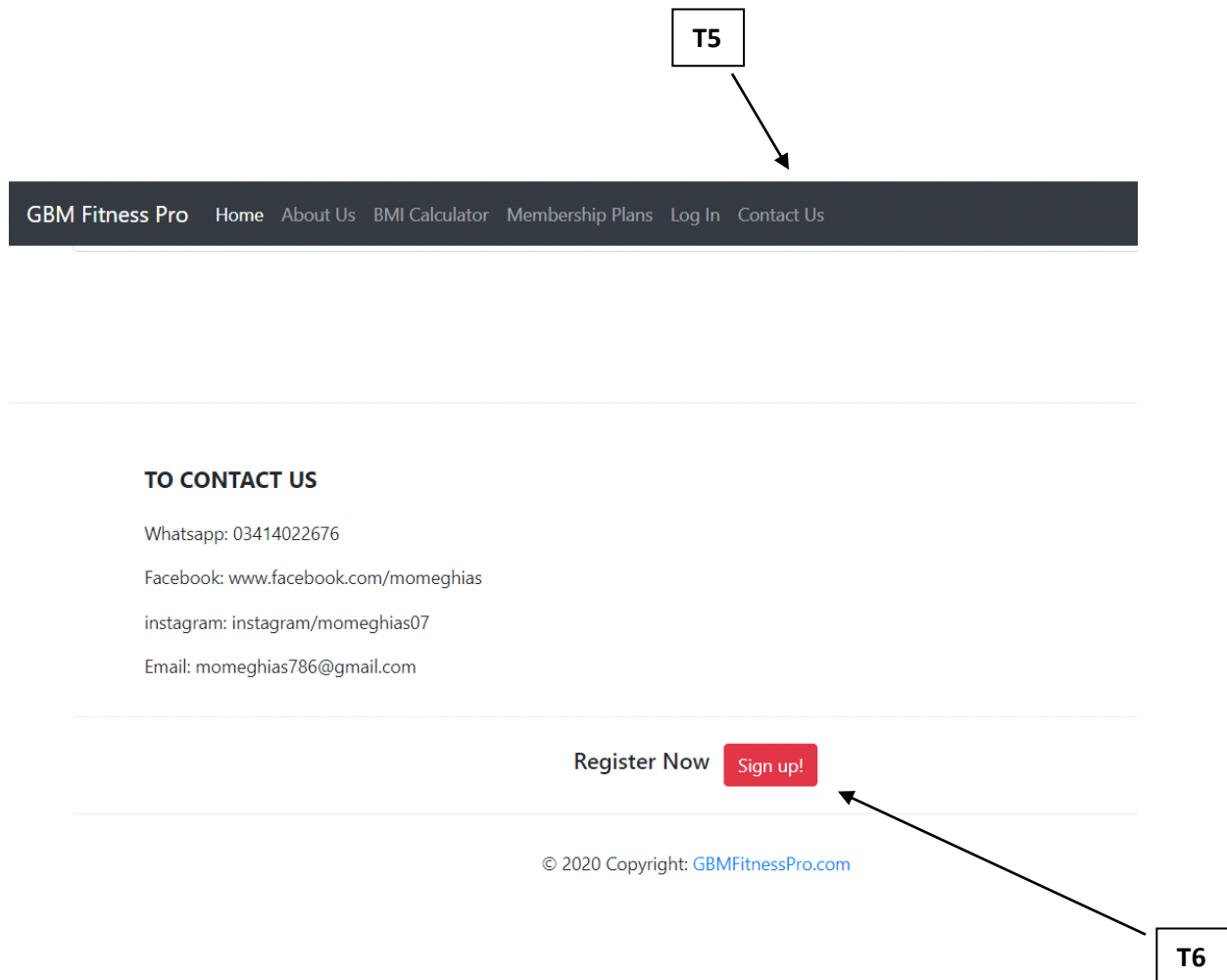
T5: As a user, I can contact the owner or admin.

T6: As a user, I can register as member.

GBM Fitness Pro

Register

Create your account. It only takes a minute.

First Name | Last Name

Email

Password

Confirm Password

Membership Plan

Free Trial

☐ I accept the Terms of Use & Privacy Policy

Register Now

Already have an account? Sign in

T8

T7

T7: As a user, I can register as a member by clicking Register Now button.

T8: As a Member, I can sign in to the website.

T9

GBM Fitness Pro   Home   About Us   BMI Calculator   Membership Plans   Log In   Contact Us

Log In As Member

Email address

We'll never share your email with anyone else.

Password

☐ Check me out

Log In

Sign up?

Log In As Admin

Email address

We'll never share your email with anyone else.

Password

☐ Check me out

Log In

T10

T9: As a user, I can log in as a member.

T10: As a user, I can log in as an admin.

Admin Page

GBM Fitness Pro   Members   Assign Diet Plans   Assign Workout Plans   Trainers   GBM Products   Log Out

T1

Hi, Admin!

T2

GBM Fitness Pro   Members   Assign Diet Plans   Assign Workout Plans   Trainers   GBM Products   Log Out

Members

#	name	DOB	Membership plan	Progress rate	Trainer
1	mome	15-08-99	6 months	60%	Alex
2	mudassar	10-08-99	1 year	50%	Alex
3	Bisma	19-08-99	6 months	40%	Sarah
4	waseh	15-08-99	6 months	60%	Alex
5	hassan	09-09-99	6 months	50%	Adam

Add Member   **Del Member**   **Update Members**

T3   **T4**   **T5**

T1: As an Admin, I can view My profile or dashboard.

T2: As an Admin, I can view Members.

T3: As an Admin, I can Add Members.

T4: As an Admin, I can Delete Members.

T5: As an Admin, I can Update Members.

T6

GBM Fitness Pro   Members   Assign Diet Plans   Assign Workout Plans   Trainers   GBM Products   Log Out

Assign diet plans

#	name	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	mome	3 eggs(morn), 6 bananas(even), chicken breast(night)	7 almonds(morn), 6 bananas(even), chicken breast(night)	3 eggs(morn), 6 bananas(even), chicken breast(night)	3 eggs(morn), 6 bananas(even), Beef(night)	a apple(morn), 7 bananas(even), chicken breast(night)	3 eggs(morn), 6 bananas(even), chicken breast(night)	3 eggs(morn), 8 bananas(even), qeema(night)
2	mudassar	2 eggs(morn), 6 bananas(even), chicken breast(night)	3 eggs(morn), 6 bananas(even), chicken breast(night)	3 eggs(morn), 7 bananas(even), Beef(night)	3 almonds(morn), 6 peach(even), chicken breast(night)	2 apple(morn), 6 bananas(even), qeema(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)
3	Bisma	4 eggs(morn), 4 bananas(even), Spanich(night)	a apple(morn), 6 Nuts(even), chicken breast(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 almonds(morn), 7 bananas(even), Beef(night)	3 breads(morn), 6 oat meal(even), chicken breast(night)	3 eggs(morn), 6 bananas(even), chicken breast(night)	3 eggs(morn), 6 bananas(even), chicken breast(night)
4	waseh	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)
5	hassan	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)	3 eggs(morn), 6 bananas(even), chicken breat(night)

Update Diet Plans

T7

T6: As an Admin, I can Assign Diet Plans.

T7: As an Admin, I can Update Diet Plans.

T8

Assign Workout plans

| #	name	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	mome	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups	90 push ups, 8 sit ups, chest stretch, 10 min walk	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	120 push ups, leg lifting, chest stretch(5 min), 30 chin ups	50 push ups, 10 planks, chest stretch(5 min), 30 chin ups	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups
2	mudassar	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups	90 push ups, 8 sit ups, chest stretch, 10 min walk	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	120 push ups, leg lifting, chest stretch(5 min), 30 chin ups	50 push ups, 10 planks, chest stretch(5 min), 30 chin ups	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups
3	Bisma	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups	90 push ups, 8 sit ups, chest stretch, 10 min walk	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	120 push ups, leg lifting, chest stretch(5 min), 30 chin ups	50 push ups, 10 planks, chest stretch(5 min), 30 chin ups	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups
4	waseh	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups	90 push ups, 8 sit ups, chest stretch, 10 min walk	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	120 push ups, leg lifting, chest stretch(5 min), 30 chin ups	50 push ups, 10 planks, chest stretch(5 min), 30 chin ups	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups
5	hassan	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups	90 push ups, 8 sit ups, chest stretch, 10 min walk	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	120 push ups, leg lifting, chest stretch(5 min), 30 chin ups	50 push ups, 10 planks, chest stretch(5 min), 30 chin ups	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups

Update Workout Plans

T9

T8: As an Admin, I can Assign Workout Plans.

T9: As an Admin, I can Update Workout Plans.

T10
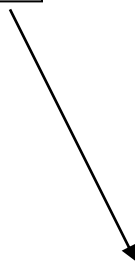
GBM Fitness Pro   Members   Assign Diet Plans   Assign Workout Plans   Trainers   GBM Products   Log Out

Trainers

#	name	DOS	Assigned To	Salary
1	Alex	02-08-10	mome,Bisma,mudassar	20,000pkr
2	Adam	10-08-09	hassan,waseh	15,000pkr

Add Trainer   Del Trainer   Update Trainer

T11

T12

T13

T10: As an Admin, I can View Trainers.

T11: As an Admin, I can Add Trainers.

T12: As an Admin, I can Delete Trainers.

T13: As an Admin, I can Update Trainers.

T14

T18

GBM Fitness Pro   Members Assign Diet Plans Assign Workout Plans Trainers GBM Products Log Out
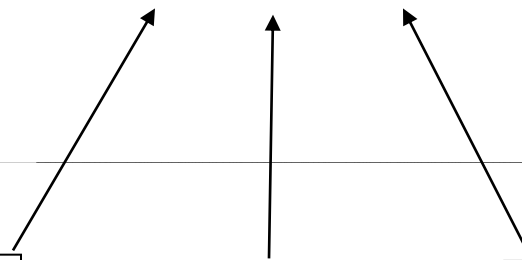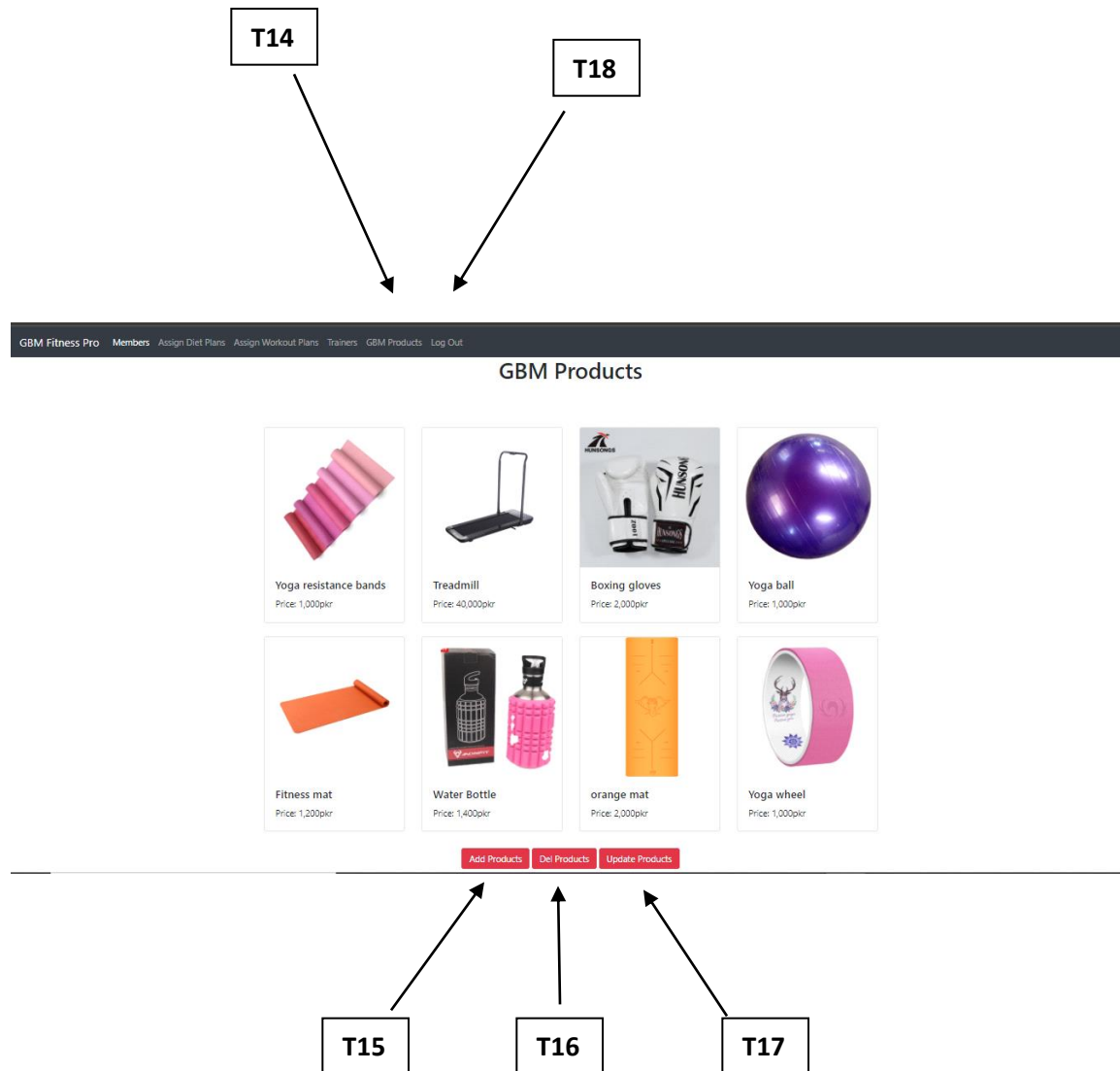
GBM Products

Yoga resistance bands Price: 1,000pkr	Treadmill Price: 40,000pkr	Boxing gloves Price: 2,000pkr	Yoga ball Price: 1,000pkr
Fitness mat Price: 1,200pkr	Water Bottle Price: 1,400pkr	orange mat Price: 2,000pkr	Yoga wheel Price: 1,000pkr

Add Products   Del Products   Update Products

T15   **T16**   **T17**

T14: As an Admin, I can View GBM Products.

T15: As an Admin, I can Add GBM Products.

T16: As an Admin, I can Delete GBM Products.

T17: As an Admin, I can Update GBM Products.

T18: As an Admin, I can Logout from the website.

Member Page

T1

GBM Fitness Pro   Your Info   Diet Plan   Workout Plan   Progress Bar   Trainer Contact   GBM Products   Log Out

Hi, Member!

name	DOB	Membership plan	Trainer
mome	15-08-99	6 months	Alex

T2

T3

Diet Plan(current week)

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
3 eggs(morn), 6 bananas(even), chicken breast(night)	7 almonds(morn), 6 bananas(even), chicken breast(night)	3 eggs(morn), 6 bananas(even), chicken breast(night)	3 eggs(morn), 6 bananas(even), Beef(night)	a apple(morn), 7 bananas(even), chicken breast(night)	3 eggs(morn), 6 bananas(even), chicken breast(night)	3 eggs(morn), 8 bananas(even), qeema(night)

Workout Plan(current week)

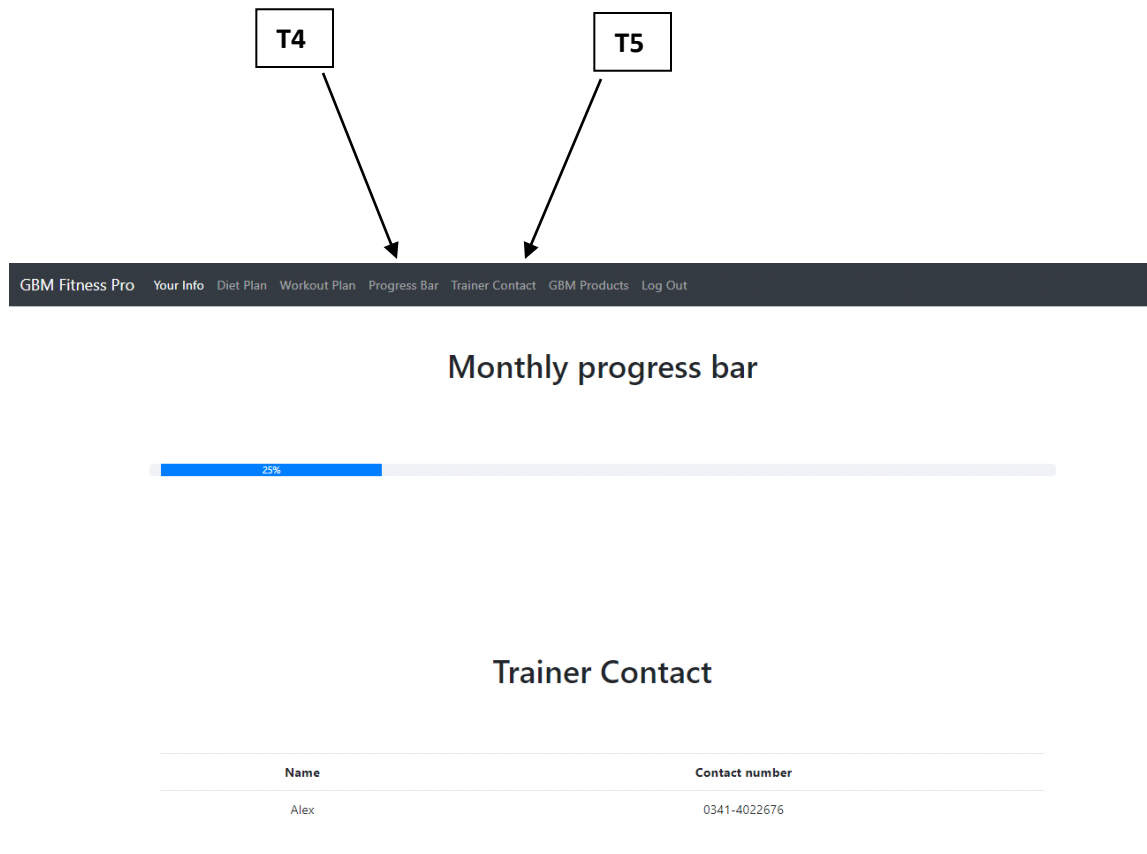| Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
60 push ups, 10 planks, chest stretch(5 min), 30 chin ups	90 push ups, 8 sit ups, chest stretch, 10 min walk	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	120 push ups, leg lifting, chest stretch(5 min), 30 chin ups	50 push ups, 10 planks, chest stretch(5 min), 30 chin ups	100 push ups, 10 planks, chest stretch(5 min), 30 chin ups	60 push ups, 10 planks, chest stretch(5 min), 30 chin ups

☐ Week completed

C:/Users/Aa/Desktop/lab se/SE PROJECT (interface-front end)/SE PROJECT/user.ht...

T1: As a Member, I can view my profile.

T2: As a Member, I can view weekly Diet Plan.

T3: As a Member, I can view weekly Workout Plan.

GBM Fitness Pro   Your Info   Diet Plan   Workout Plan   Progress Bar   Trainer Contact   GBM Products   Log Out

Monthly progress bar

25%

Trainer Contact

Name	Contact number
Alex	0341-4022676

T4: As a Member, I can view my Monthly progress.

T5: As a Member, I can contact with the Trainer.
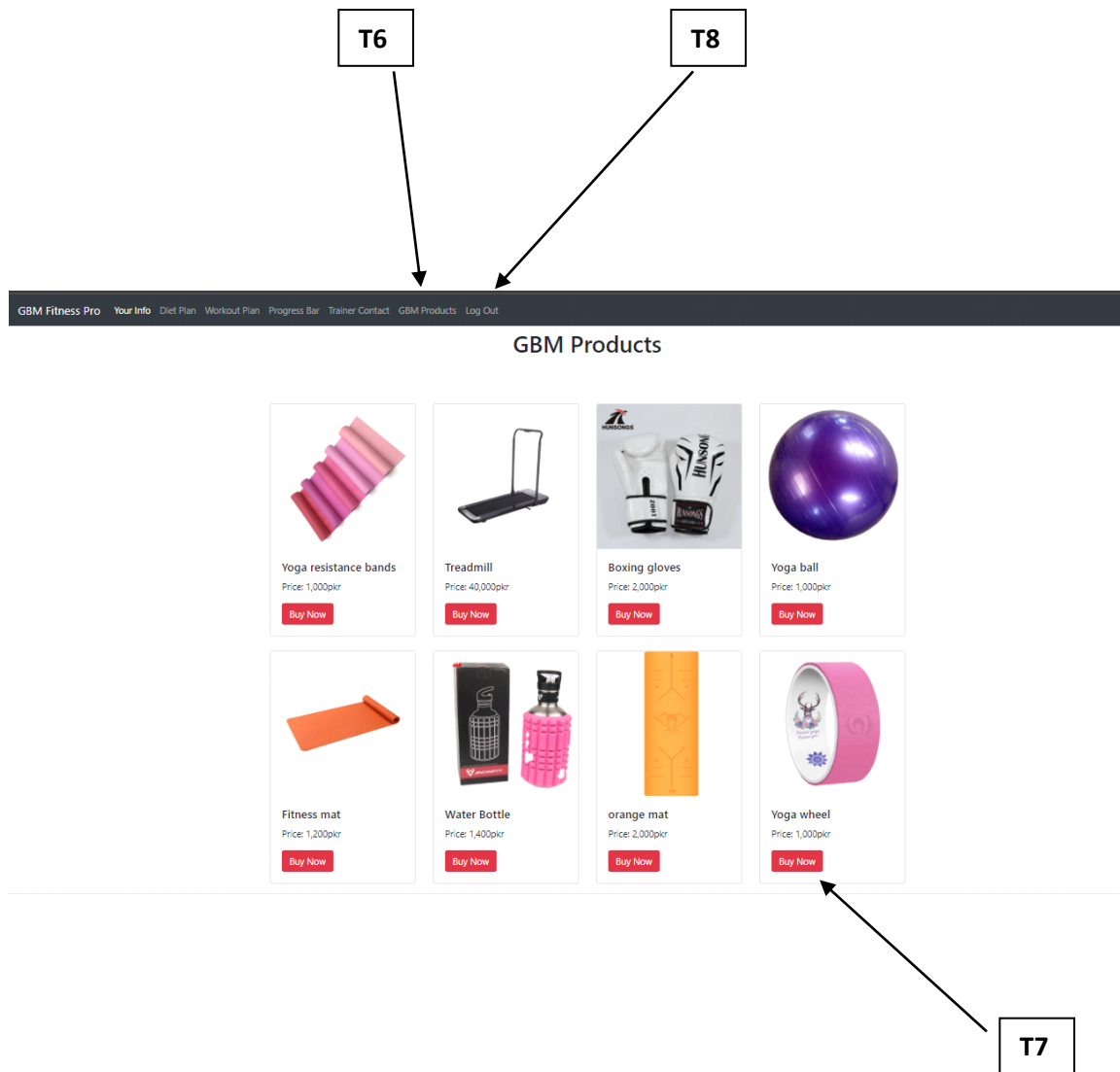
T6: As a Member, I can view GBM Products.

T7: As a Member, I can Buy GBM Products.

T8: As a Member, I can Log out from the website.

• *Functional Requirements*

1. Admin
 1. Admin shall be able to log in.

2. Admin shall be able to view his profile.
3. Admin shall be able to manage members.
4. Admin shall be able to add members.
5. Admin shall be able to delete members.
6. Admin shall be able to update members.
7. Admin shall be able to assign diet plans.
8. Admin shall be able to update diet plans.
9. Admin shall be able to assign workout plans.
10. Admin shall be able to update workout plans.
11. Admin shall be able to manage trainers.
12. Admin shall be able to add trainers.
13. Admin shall be able to delete trainers.
14. Admin shall be able to update trainers.
15. Admin shall be able to assign trainers.
16. Admin shall be able to manage GBM Products.
17. Admin shall be able to add GBM Products.
18. Admin shall be able to delete GBM Products.
19. Admin shall be able to update GBM Products.
20. Admin shall be able to log out.

2. Member
1. Member shall be able to sign up.
2. Member shall be able to login in.
3. Member shall be able to view his/her profile.
4. Member shall be able to view weekly Diet Plan.
5. Member shall be able to view weekly Workout Plan.
6. Member shall be able to view his/her Monthly progress.
7. Member shall be able to contact with the Trainer.
8. Member shall be able to view GBM Products.
9. Member shall be able to Buy GBM Products.
10. Member shall be able to Log out from the website.

3.Trainer
1. Admin shall be able to teach fitness skills to the members.
2. Admin shall be able to provide health tips to the members.
3. Admin shall be able to prepare the members for workout activities.
4. Admin shall be able to contact with his/ her members.
5. Admin shall be able to motivate his/ her members to reach fitness goals.

- *Use Cases:*

1. Member

Use Case Title	Create account
Use Case Id	1
Requirement Id	1
Description: A user starts the application for the first time and is prompted to create an

account.

Pre-Conditions:	
• The application is started by a new user who does not have an account	
Normal Flow	
1. It starts when a new user uses the application for the first time and opts to create an account.	
2. The user add his/her email and set password into the allotted text fields.	
3. The application notifies the user that the account has been created and grants access to the application.	
Alternative Flow	
• The user enters invalid characters into the text field or leaves them blank. The system notifies the user of their error.	
• Then user can continue from step 2	
Post Conditions:	
• Account is being created and user is returned to the Login page.	
Open issues: Account cannot be created if user added wrong or invalid data.	
Authority: Member	

Use Case Title	Login Member
Use Case Id	2
Requirement Id	2
Description: When the member is intended to login to the application.	
Pre-Conditions:	
• Member must have registered first on websites.	
• Member have an internet connection.	
Normal Flow	
1. A registered user sign in to the website by entering his/her username and password.	
2. Member then have access to specified features.	
Alternative Flow	
• The member provides an incorrect username or password and is notified.	
• Then member can continue from step 1	
Post Conditions:	
• Member logged in successfully.	
Open issues: User cannot sign in to the website if he/she added wrong or invalid data.	
Authority: Member	

Use Case Title	Log out Member
Use Case Id	3
Requirement Id	3
Description: When the admin is intended to logout from application	
Pre-Conditions:	
• Member must log in first.	
Normal Flow	
1. Member performs the desired task and wants to log out from the website.	
2. System asks for confirmation.	

3. User confirmed the information and logged out.	
Alternative Flow	
• There may a problem in the confirming. • Member review the problem and fix the error. • User then continues from the step 2.	
Post Conditions: • The user logs out successfully.	
Open issues: There may be errors in providing information.	
Authority: Member	

Use Case Title	View Profile
Use Case Id	4
Requirement Id	4
Description: The use case begins when the member wants to view profile.	
Pre-Conditions: • Member Logs in first. • Data exists.	
Normal Flow	
1.This use case begins when a logged in user clicks my info button.	
2.The member is then provided with a list of all the related data.	
Alternative Flow	
• The application does not have Member record and has nothing to display to the member. The system notifies the member of this and returns them to the home page.	
Post Conditions: • The actor views his profile successfully.	
Open issues: There may be no record.	
Authority: Member	

Use Case Title	View Diet Plan
Use Case Id	5
Requirement Id	5
Description: The use case begins when the member wants to view diet plan.	
Pre-Conditions: • Member Logs in first. • Data exists.	
Normal Flow	
1.This use case begins when a logged in user clicks the view diet plan button.	
2.The member is then provided with a list of all the related data.	
Alternative Flow	
• The application may not have assigned diet plan and has nothing to display to the member. The system notifies the member of this and returns them to the home page.	
Post Conditions:	

	• The member view diet plan successfully.

Open issues: There may be no record.

Authority: Member

Use Case Title	View Workout Plan
Use Case Id	6
Requirement Id	6

Description: The use case begins when the member wants to view workout plan.

Pre-Conditions:
- Member Logs in first.
- Data exists.

Normal Flow

1.This use case begins when a logged in user clicks the view workout plan button.

2.The member is then provided with a list of all the related data.

Alternative Flow
- The application may not have assigned workout plan and has nothing to display to the member. The system notifies the member of this and returns them to the home page.

Post Conditions:
- The member view workout plan successfully.

Open issues: There may be no record.

Authority: Member

Use Case Title	Buy GBM Products
Use Case Id	7
Requirement Id	7

Description: The use case begins when the member wants to buy products.

Pre-Conditions:
- Member Logs in first.
- Products exists.

Normal Flow

1.This begins when a logged in user clicks the Buy Product button.

2.The member is then provided with a list of all the related data.

Alternative Flow
- The system may not have assigned product and has nothing to display to the member. The system notifies the member of this and returns them to the home page.

Post Conditions:
- The member buys the product successfully.

Open issues: There may be no record.

Authority: Member

Use Case Title	Contact Trainer
Use Case Id	8
Requirement Id	8

Description: The use case begins when the member wants to contact to his/her assigned

trainee.	

Pre-Conditions:
- Member Logs in first.
- A trainer is assigned to the member.

Normal Flow

1.This use case begins when a logged in user clicks the Contact trainer button.
2.The member is then provided with the related data.

Alternative Flow
- The admin may not have assigned the trainer to the member yet and the application has nothing to display to the member. The system notifies the member of this and returns them to the home page.

Post Conditions:
- The user contacted his/her trainer successfully.

Open issues: There may be no trainer assigned.

Authority: Member

2. Admin

Use Case Title	Login Admin
Use Case Id	1
Requirement Id	1

Description: When the admin is intended to login to the application.

Pre-Conditions:
- Admin has access to all features of websites.
- He/She must have an internet connection.

Normal Flow

1. Admin sign in to the website by entering his/her username and password.
2. Admin then have access to specified features.

Alternative Flow
- Admin provides an incorrect username or password and is notified.
- Then he/she can continue from step 1

Post Conditions:
- Admin logged in successfully.

Open issues: Admin cannot sign in to the website if he/she added wrong or invalid data.

Authority: Admin

Use Case Title	Log out Admin
Use Case Id	2
Requirement Id	2

Description: When the admin is intended to logout from application

Pre-Conditions:
- Admin must log in first.

Normal Flow

1. Admin performs the desired task and wants to log out from the website.	
2. System asks for confirmation.	
3. User confirmed the information and logged out.	
Alternative Flow	
• There may a problem in the confirming. • Admin review the problem and fix the error. • User then continues from the step 2.	
Post Conditions: • The user logs out successfully.	
Open issues: There may be errors in providing information.	
Authority: Admin	

Use Case Title	Manage Members Records
Use Case Id	3
Requirement Id	3
Description: It begins when the Admin is intended to view, update add or delete Member records.	
Pre-Conditions: • Admin is logged in • Member data must exist for viewing, editing, deleting and updating record.	
Normal Flow	
1. Admin logged in to the website. 2. Admin filled the required information, asked by the application, according to his/her desired task. 3. Information is edited when admin clicks the add, delete or update buttons.	
Alternative Flow	
• . Admin enters invalid information or leaves some or all fields empty and the system informs the user of their error. • After fixing the error admin can continue from step 3.	
Post Conditions: • The member record is edited or deleted.	
Open issues: Wrong information can lead to add or delete the wrong member.	
Authority: Admin	

Use Case Title	Manage Equipements or GBM Product Records
Use Case Id	4
Requirement Id	4
Description: It begins when the Admin is intended to view, update add or delete Products records.	
Pre-Conditions: • Admin is logged in • Equipment data must exist for viewing, editing, deleting and updating record.	
Normal Flow	
1. Admin logged in to the website.	

2. Admin filled the required information, asked by the application, <u>according to his/her desired task.</u>   3. Information is edited when admin clicks the add, delete or update buttons.
Alternative Flow
•   . Admin enters invalid information or leaves some or all fields empty and the system informs the user of their error.   •   After fixing the error admin can continue from step 3.
Post Conditions: •   The Product record is edited or deleted.
Open issues: Wrong information can lead to add or delete the wrong member.
Authority: Admin

• *Non Functional Requirements:*

Ease of Use:

The application will be user friendly and intuitive to use. Users will be comfortable using the application.

Reliability:

The Application shall not crash or close under any circumstances and will always be available to be used by the user.

Maintainability:

If the Application is to be changed, it will go through detailed testing to determine the Reliability and Security of the Application.

Speed:

The application will open and be ready to use within seconds of being selected. The UI should be quick and smooth with no delays between button presses and screen reaction.

Data Accuracy:

Our web application will be accurate because now admin does not enter a single record in so many registers but only in one single computer-based System.

Data Consistency:

Data consistency is the major benefit, as when data is changed in one portion, it will automatically change in every related portion.

- **Project Work Plan**

Gantt Chart

Name	Begin date	End date
Requirement analysis	10/1/20	10/14/20
Proposal	10/1/20	10/7/20
SRS	10/8/20	10/14/20
Design Phase	10/15/20	11/4/20
Class Diagram	10/15/20	10/21/20
ERD	10/22/20	10/28/20
WireFrames	10/29/20	11/4/20
FrontEnd Development	11/5/20	11/16/20
Learning FrontEnd...	11/5/20	11/9/20
Building Interfaces	11/10/20	11/16/20
BackEnd Development	11/17/20	12/21/20
Learning BackEnd ...	11/17/20	11/25/20
Coding First Phase	11/26/20	12/2/20
Coding Second Ph...	12/3/20	12/8/20
Integrating	12/9/20	12/21/20
Testing Phase	12/22/20	1/4/21
Deployment Phase	1/5/21	1/18/21