



INSTITUTE FOR ADVANCED COMPUTING ANDSOFTWARE DEVELOPMENT (IACSD), AKURDI, PUNE

Documentation On

FitLife ProActive Gym

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ABSTRACT

This project is a Gym Portal and Management System for Gym web application is intended to provide complete solutions for owners as well as customers through a single get way using the internet. It allows owners to manage their gym, customer to view the packages provided by gym and booking their session online as per requirement. The administrator module will able to manage branch activity, gym activity, Gym activity, facility activity. and make it online which will be feasible and flexible and try to make it user friendly.

Gyms are become the essential part of our lives and providing best exercise. In this application admin can manage the customer an easier and more convenient way. This project also maintains the Customer details, to provide the valuable reports regarding progress of the gym member. Admin can login with their username and password. Admin can add and update Gym details and work out details. Customer will register and login with their username and password. Customer can view exercise and work out timing details etc.

ACKNOWLEDGEMENT

I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. I extend my sincere and heartfelt thanks to our esteemed guide, **Mr. Narendra Pawar** for providing me with the right guidance and advice at the crucial juncture sand for showing me theright way. I extend my sincere thanks to our respected **Centre Co-Ordinator Mr. Rohit Puranik**, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

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INTRODUCTION

This project is a Gym Portal and Management System for Gym web application is intended to provide complete solutions for owners as well as customers through a single get way using the internet. It allows owners to manage their gym, customer to view the packages provided by gym and booking their session online as per requirement. The administrator module will able to manage branch activity, gym activity, Gym activity, facility activity. and make it online which will be feasible and flexible and try to make it user friendly.

This document communicates the business requirements and scope for developing Gym Service for a company. The scope of this document is to define the functional and non-functional requirements, business rules and other constraints requirements. Now a day's online service is the best competitive edge for any organization. Our fitness management website provides best platform for ease of access to the gym managers, Gyms and also for customers. User can check his updates online anytime about his/her fitness, diet plan etc. There is a need for online healthcare maintenance online. This project provides user friendly customer and Gym interaction.

Features: -

- 1. Separate login for Admin owner and Member.
- 2. Easy to add or update the user owner information by Admin.
- 3. Easy to generate Packages for each User by Admin.
- 4. Admin can easily circulate the notice from anywhere location through the system.
- 5. Date and time of visitor visited for specific User is autogenerated.
- 6. Easy to keep update of Gym.
- 7. Admin can assign User to owner and add him/her in Gym members by assigning access to the system.

1.1 PROJECT OBJECTIVE

The This product aimed toward a person who don't want to visit the gym to see functionalities and packages provided by that gym to get membership, he/she can use the web application for ease.

1.2 PROJECT OVERVIEW

The application This system brings ease in the communication and business of B2C field. It provides the complete functionality to owner This system allows gym managers to manage users and full application, manage gym shifts and the members to search gyms, apply for membership and view workouts while it allows Gym to create schedule, diet chart. This product aimed toward a person who don't want to visit the gym to see functionalities and packages provided by that gym to get membership, he/she can use the web application for ease

Admin gives limited access of this system to User owner and security guard. The data related with the User details and its owner stored by Admin on database through system. Admin is able to generate maintenance bill of a User which can be viewed by that User owner only. Admin circulates the notice using the system and this notice can be viewed by all User owners. User owner may add tenant for his/her User and can save tenants details on database through the system. User owner may raise the complaint through the system which can be viewed and solved by Admin and its status get changed from pending to completed. User owner can add his vehicle details on database through the system.

1.3 PROJECT SCOPE

This system provides friendly user interface to every member of the Gym. The various other functionalities about Cross browsing, various languages suitable for different caste, etc. This application will help all sectors of people which will provide them visibility and smooth functioning. This will be beneficial to all the members who travel abroad and who cannot be a part of each and every notice of the Gym. This application will travel worldwide and any members will have an access to it. Understanding the needs of the Gym members and to overcome the manual work of the documentation and make it online which will be feasible and flexible and try to make it user friendly. Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal

3.SYSTEM REQUIREMENTS SPECIFICATION.

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. This page asks the users a
 username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.

This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

 This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.

This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service.
 This function allows the application to use the data retrieved by server to fulfil the request fired by the us.

HARDWARE REQUIREMENT

Hardware requirements for insurance on internet will be same for both parties which are as follows:

RAM	4 GB
Hard disk	320 GB
Processor	Dual Core

Software Requirements

Client side:

	Google	Chrome	or	any	compatible
Web Browser	browser				
Operating System	Windows 8	or above			

Server side:

Web Server	To-be-decided
Server-side Language	J2EE(Spring, Hibernate)
Database Server	MYSQL
	Google Chrome or any
Web Browser	compatible browser
Operating System	Windows 8 or above

OPERATING ENVIRONMENT:

Server Side:

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 4GB

OS: Windows 10

Database: MySQL 8.0

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 4GB

OS: Windows 7 or above

Design and Implementation Constraints:

- The application will use ReactJS, Axios and CSS as main web technologies.
- HTTP protocol is used as communication protocol. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol. SMTP protocol is used for Email communication Several types of validations make this web application a secured one and SQL Injections can also be prevented. Since FitLife ProActive Gym is a web-based application, internet connection must be established.

User Characteristics:

User should be familiar with the terms like login, register etc.

Principle Actors:

Super admin, Gym Owners, Trainer, Members

General Constraints:

A full internet connection is required.

Functional Requirements:

This section provides requirement overview of the system. Various functional modules that can be implemented by the system will be –

1.Registration

If customer wants to take the membership, then he/she must be registered, unregistered user can't have access to packages. They can view the gym.

The Super admin must be able to Register new gym branch details as well as the Branch manager details.

The local gym branch owners can register new trainers for the gym.

2.Login

Each system user including Admin, Branch owners, Trainers and Customers/ Members must be able login to application by entering valid user id and password.

3.Pakages

Branch owners can provide different packages for customers.

Customer can view and packages, trainers and choose one as per their requirements.

4.Membership

After choosing one of packages & making successful payment customer can avail the services provided by gym.

5.Gym Shifts

Branch owners can schedule different shifts for group of customers and trainers.

6.Workout plan

Trainers can add workout plans and diet suggestions to their respective members.

7.LogOut

Application user redirected to home page after surfing the application or whenever they wanted

Non-Functional Requirements:

Security:

System will assign different roles to users for authentication. Users will be allowed

to access application only after authentication by entering login id and password.

Reliability & Maintainability:

FCS will backup the users data after every activity using database.

Availability:

24X7 availability.

Modularity:

FCS will be designed and developed using independent or dependent business scenarios in the form of module It will contain modules such as Authentication, Package information, Branch Information, Trainers and customers data, Payment processing and Membership

Reusability:

The different modules of system will be reusable and can be modified independently.

Scalability:

System will be able to provide consistent user experience to users

FIGURES:

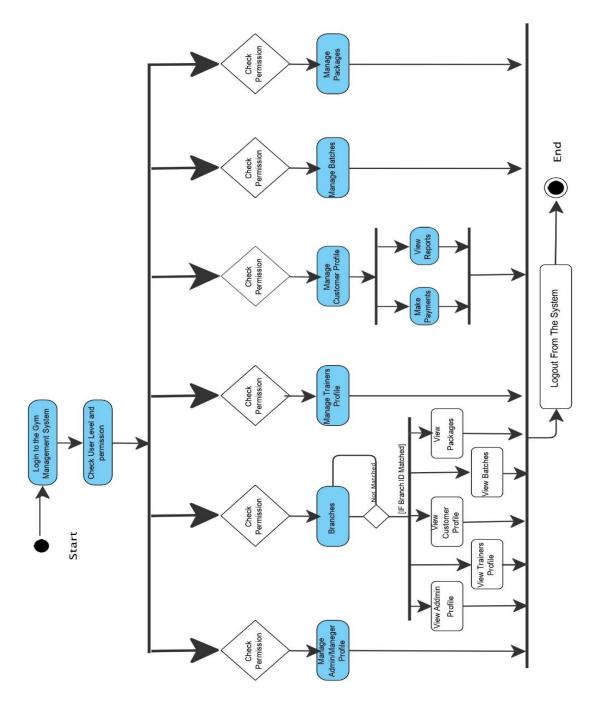


Figure 1 Activity Diagram

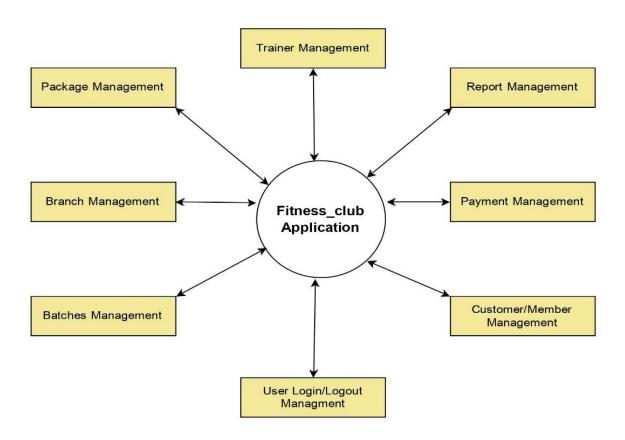


Figure 2 Zero Level DFD

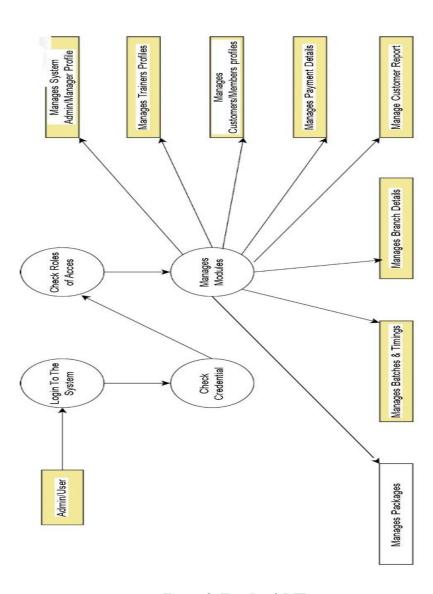


Figure 3 First Level DFD

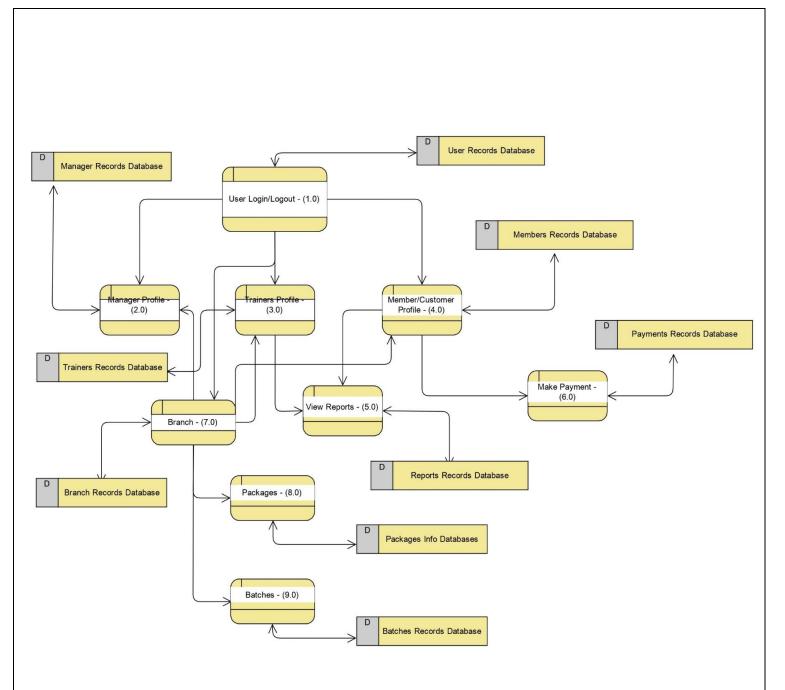


Figure 4 Second Level DFD

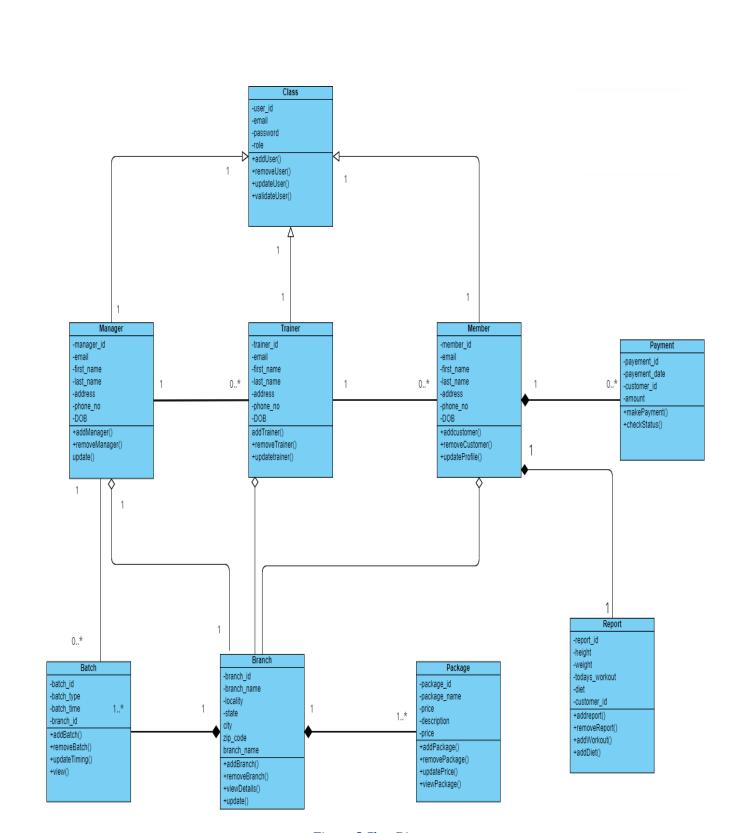


Figure 5 Class Diagram

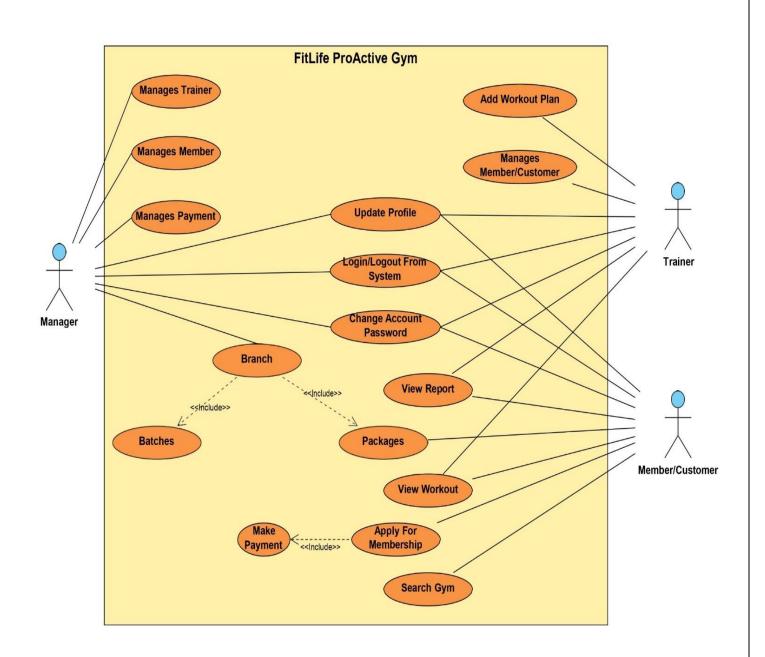
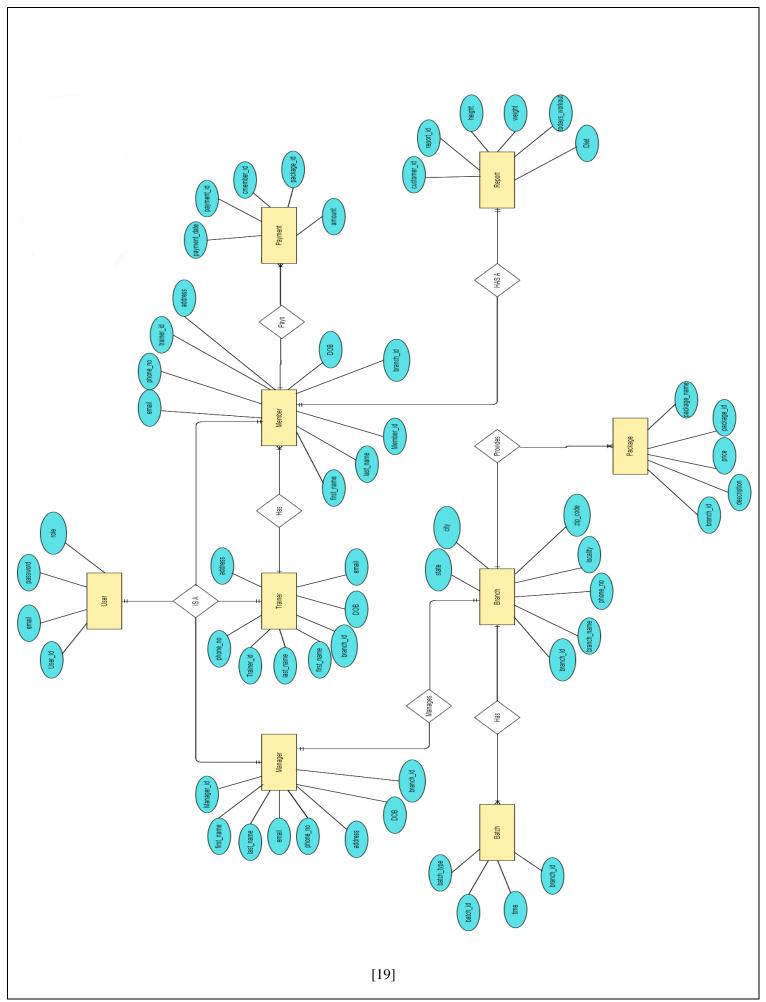


Figure 6 User Case Diagram



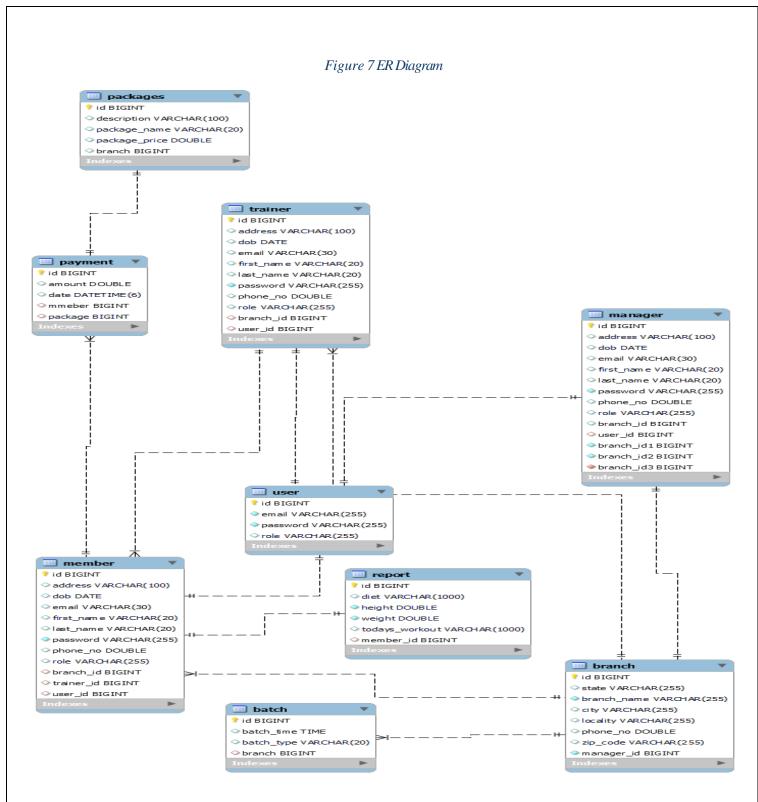


Figure 8 System Generated ER Diagram

Table Structure

User:

Field	Type	Null	Key	Default	Extra
id	bigint	NO NO	PRI	NULL	auto_increment
email	varchar(255)	NO		NULL	
password	varchar(255)	NO		NULL	l i
role	varchar(255)	YES		NULL	

Manager:

Batch:

Trainer:

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
address	varchar(100)	YES	İ	NULL	
dob	date	YES	ĺ	NULL	
email	varchar(30)	YES	UNI	NULL	
first_name	varchar(20)	YES	ĺ	NULL	
last_name	varchar(20)	YES		NULL	Ì
password	varchar(255)	NO	ĺ	NULL	Ì
phone_no	double	YES	ĺ	NULL	
role	varchar(255)	YES		NULL	
branch_id	bigint	YES	MUL	NULL	
user_id	bigint	YES	MUL	NULL	ľ

11 rows in set (0.01 sec)

Member:

mysql> desc me +	ember; +	+	+	·	+
Field	Туре	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
address	varchar(100)	YES		NULL	
dob	date	YES		NULL	
email	varchar(30)	YES	UNI	NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
password	varchar(255)	NO		NULL	
phone_no	double	YES		NULL	
role	varchar(255)	YES		NULL	
branch_id	bigint	YES	MUL	NULL	
trainer_id	bigint	YES	MUL	NULL	
user_id	bigint	YES	MUL	NULL	

Branch:

Field	Туре	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
state	varchar(255)	YES		NULL	
branch_name	varchar(255)	NO		NULL	
city	varchar(255)	YES		NULL	
locality	varchar(255)	YES		NULL	
phone_no	double	YES		NULL	
zip_code	varchar(255)	YES		NULL	

Package:

mysql> desc packa	·	+	+	+	+
Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
description	varchar(100)	YES		NULL]
package_name	varchar(20)	YES		NULL	
package_price	double	YES		NULL	
branch	bigint	YES	MUL	NULL]

Payment:

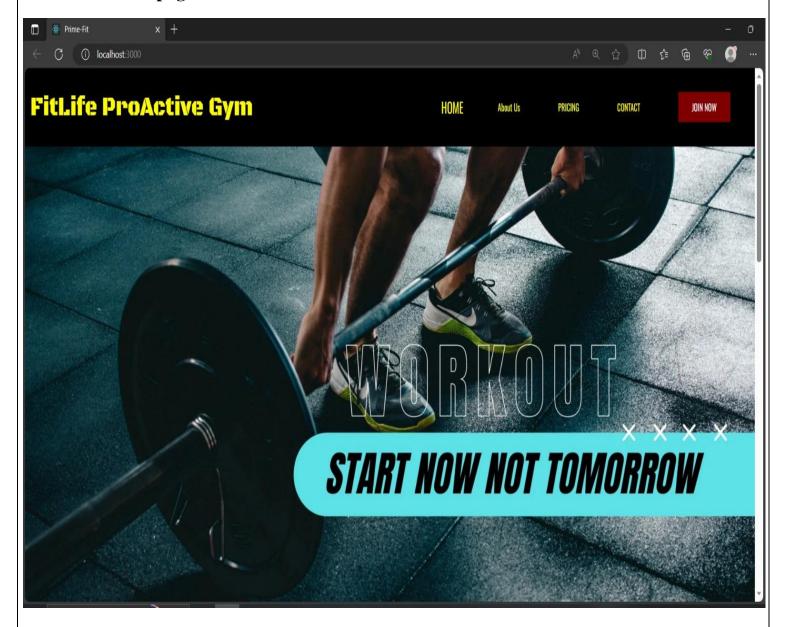
```
mysql> desc payment;
                      | Null | Key | Default | Extra
 Field | Type
          bigint
                              PRI | NULL
 id
                                             auto_increment
                        NO
          double
                       YES
                                    NULL
 amount
           datetime(6)
                        YES
                                    NULL
 date
          bigint
 mmeber
                              MUL
                                    NULL
 package | bigint
                       YES
                             MUL NULL
 rows in set (0.00 sec)
```

Report:

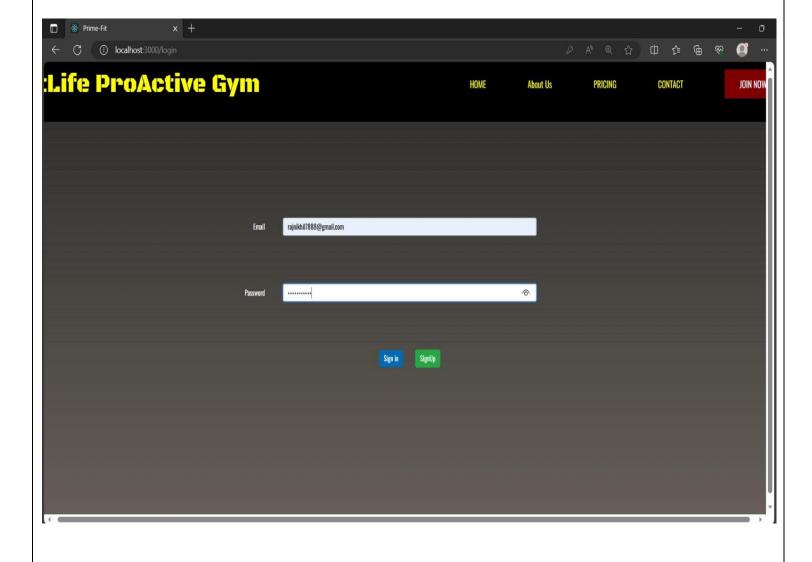
Field	Type	Null	Key	Default	Extra
id	bigint	NO NO	PRI	NULL	auto_increment
diet	varchar(1000)	YES	į į	NULL	i - i
height	double	NO		NULL	ĺ
weight	double	NO		NULL	
todays_workout	varchar(1000)	YES		NULL	
member_id	bigint	YES	MUL	NULL	

SCREENSHOTS

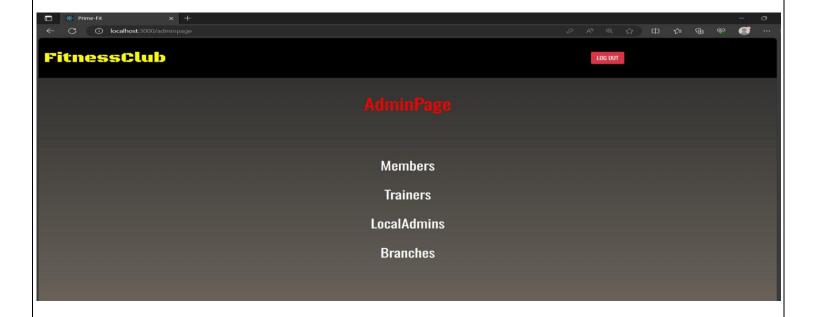
Homepage:



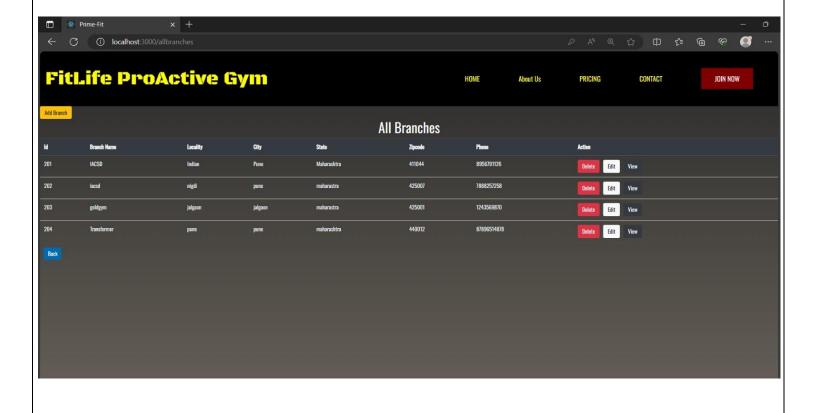
Sign in/Sign up Page:



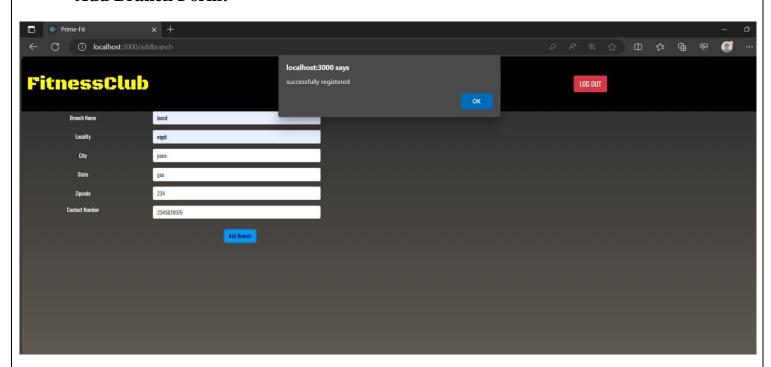
Admin Page:



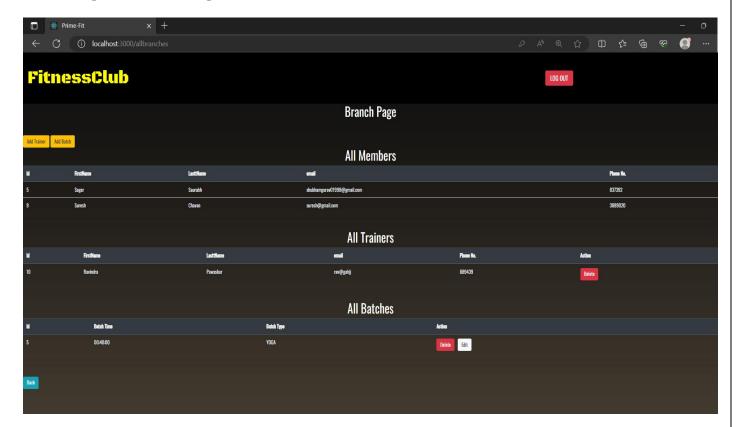
All Branches:



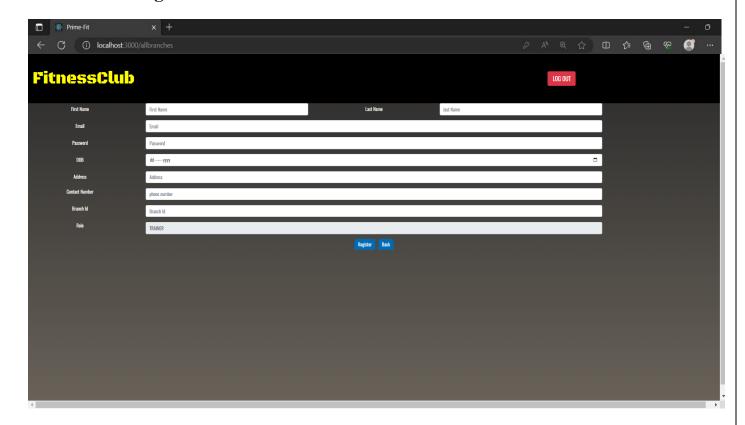
Add Branch Form:



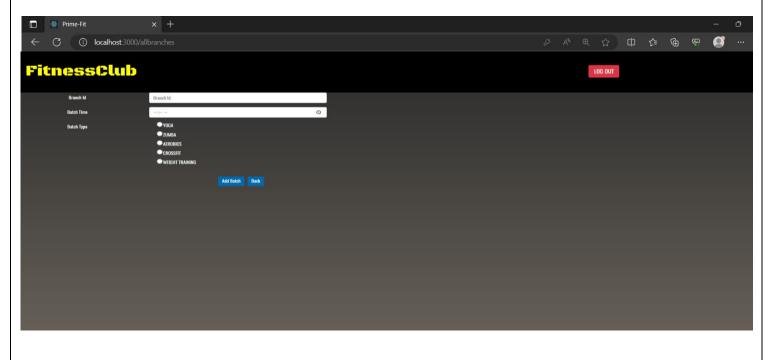
Manager Branch Page:



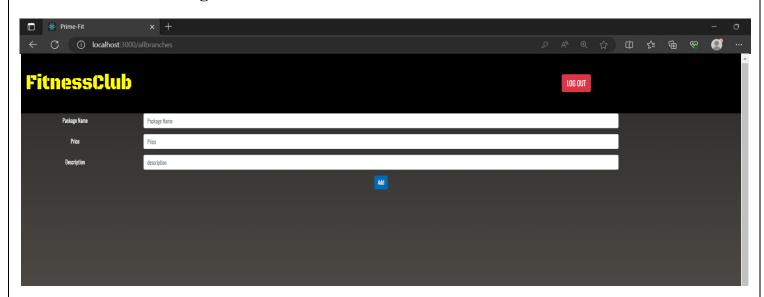
Trainer Add Page:



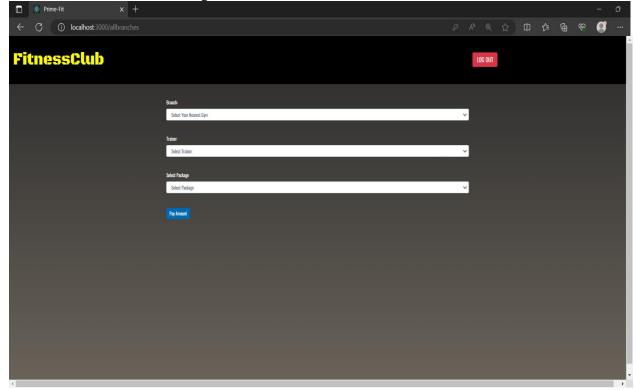
Gym Shift Page:



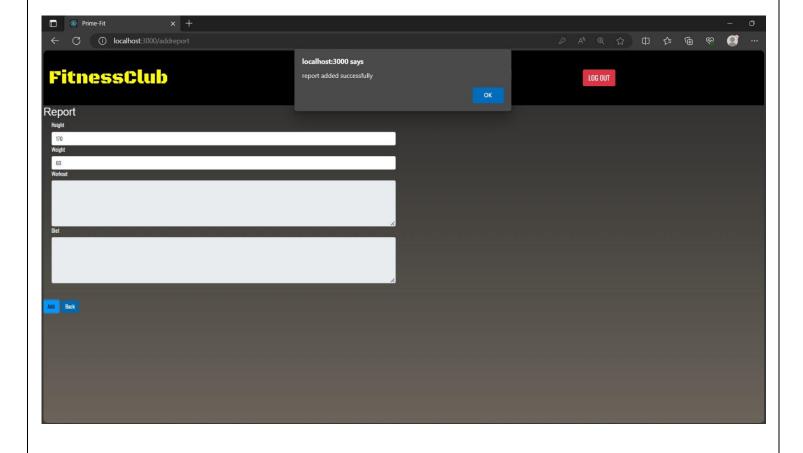
Add New Package:



Purchase MemberShip:



Workout Report:



ABOUT US:

Nutrition

Getting in the best shape needs a lot more than just working out. It is believed that 70% of what you eat decides your health and looks. Let's meet our team of Nutritionists



Yuvraj Bhavnagar



Rujuta Diwekar

Trainers



Manish Advilkar



Anupriya Kapur

PASSWORD ENCRYPTION:

mysql> select * from member;		-+						
id address dob emai		last_name				_	trainer_id	:
2 Akurdi 2000-08-08 omni 8 pune 2000-12-22 bhag 9 pune 2000-03-10 ani@	khil369@gmail.com Nikhil ggu@gmail.com Bhaggu gmail.com Ani	Rajpoot Blue Jay	\$2a\$10\$ZLCYlatVrj27T5NCKDeJxuyQHnYeNIFMkwepYL7I8h24mgrebqIeq \$2a\$10\$zaIFZnfnQ7joSFu3GnSRVu2yw3EZKrhHjtAw0l.vbkiOvraQBDRhK \$2a\$10\$E64cIeTqQNESPrA1PMXsHOLh1njoeH.PfQ2HVH/xmDj6hP/rb4pJu	7888257256 7947964587 789243569	MEMBER Member Member	NULL NULL NULL	NULL NULL NULL	2 8 9
3 rows in set (0.00 sec)		-+						

CONCLUSION

This system brings ease in the communication and business of B2C field. It provides the complete functionality owner This system allows admin to manage users and full application, manage gym shifts and the members to search gyms, apply for membership and view workouts while it allows trainer to create schedule, diet chart and add workout plans.

This system provides opportunity to Gym owners to expand their business online. Saves time and efforts of customers to right gym and reduces overall paper work of managing records and registers. Customers and Trainers can receive notifications via email.

Future Scope:

This project can be enhanced further by adding payment gateway to reduce the maintenance of cash for Membership purchase payments. Online Workout tutorials and online Expert sessions can be hosted on this site for better customer satisfaction. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user—friendly website to Institutes.

