



VIVEKANAND COLLEGE FOR
ADVANCED COMPUTER AND INFORMATION SCIENCE
SURAT
VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
PROJECT REPORT ON
FIT-BUDDY GYM
AS A PARTIAL REQUIREMENT FOR THE DEGREE
OF
BACHELOR OF COMPUTER APPLICATION
(B.C.A)2024-2025

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It gives me great pleasure in submitting this project entitled **“FIT-BUDDY GYM”** as a part of the curriculum of BCA (Semester V).

We avail this opportunity to express my heartfelt gratitude to a number of people who extend their full support and co-operation in developing this project and also imparting Knowledge to me in various other domain of software technology.

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-AYUSH PARMAR

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CERTIFICATE

This is to certify that Parmanu Ayush A. Exam No 2665
has successfully completed his / her Mini Project work entitled
Fit-buddy vym as partial fulfillment of the
TYBCA (Sem-5) during academic year 2024-2025.

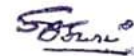
Name of Guide: Prof. Sumathi Shenoj.

Signature of guide: 

Signature of Examiner:

Date: 18/10/2024

Place: Surat



I/C Principal
Vivekanand College for BCA
SURAT

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INTRODUCTION

1. PROJECT PROFILE

Project Title	FIT-BUDDY GYM
Project Definition	<p>‘FIT-BUDDY GYM’ Website basically contains:</p> <p>1. Admin Side</p> <ul style="list-style-type: none">□ Manage login□ Manage Customer□ Manage Memberships□ Manage Membership Buyers□ Manage Products□ Manage Products Buyers□ Manage Payment Of Memberships□ Manage Payment Of Products <p>2. Client Side</p> <ul style="list-style-type: none">□ View Pages□ View Memberships□ View Products□ Registration□ Login/Logout□ Membership Buy page□ Product Buy page□ Payment Page Of Products□ Payment Page Of Memberships
Duration	3 Months
Project External Guide	Ms. Sumathi Shenoy
Front End	HTML , CSS , BOOTSTRAP & JS
Back End	PHP(MYSQL server)

2. PROJECT INTRODUCTION

A gym website's primary objects include several key sections and features. The main sections comprise Home/Welcome, About Us, Services, Facilities, Membership, Classes/Schedule, Trainers/Staff, Contact/Location, and Testimonials. These sections provide essential information about the gym, its services, and facilities.

Key features of a gym website include membership registration and payment gateway, class scheduling and booking system, personal training session booking, member login and Profile management, news/blog section, social media integration, photo and video gallery, online support/chat system, and search engine optimization (SEO).

Functionally, a gym website should allow users to register and log in, manage memberships (renewal, cancellation), process payments, schedule classes and receive reminders, receive email notifications, book online appointments, integrate with fitness tracking software, and provide mobile responsiveness.

In terms of content, a gym website should include gym policies and rules, membership terms and conditions, service descriptions and pricing, trainer bios and certifications, class descriptions and schedules, testimonials and success stories, fitness tips and articles, promotions and discounts, and an event calendar.

Lastly, design elements play a crucial role in creating an engaging and user-friendly website. Essential design elements include modern and responsive design, prominent call-to-actions (CTAs), high-quality images and videos, clear typography and navigation, colour scheme and branding

consistency, mobile-friendly layout, accessibility features, social media links, and a feedback and review system.

By incorporating these primary objects, features, functionalities, content, and design elements, a gym website can effectively showcase its services, engage members, and attract new customers.

3. HARDWARE REQUIREMENT

Client Side

- Internet enable device with any browser that support bootstrap & JavaScript.

Server Side

- Desktop or Laptop Computers
- Input Devices
- Networking Equipment
- Backup Storage

Developer Side

- RAM : 8 GB or above
- Processor : Quad Core(Or Higer) CPU @ 2.00GHz 2.60 GHz

4. SOFTWARE REQUIREMENT

Client Side

- Client On Internet: Chrome any Browser

Server Side

- Payment Gateway
- Send Email

Developer Side

- Development IDE : Visual Studio Code
- Operating System : Windows 11(64-bits)
- Front-End Language : HTML, CSS, BOOTSTRAP, JS
- Back-End Language : PHP
- Server : Apache server, XAMPP
- Database : MYSQL
- Network Interface: 10Mbps Internet

TOOLS AND TECHNOLOGY

CORE TECHNOLOGY

PHP5 (Back End)

HTML

CSS

MYSQL

EXTRA TECHNOLOGY

JavaScript

Bootstrap

DOCUMENTATION TOOLS

MS - PowerPoint

MS – Word

Development Tools

Vs Code

Xampp Server

CORE TECHNOLOGY



➤ About PHP/What is PHP

- PHP Stands For Hypertext Pre-Processor.
- PHP was introduced by Rasmus Lerdorf in the first version and participate in the latest version.
- PHP is general-purpose scripting language and interpreter that is freely available and widely used for web development.
- PHP is a server side scripting language.

➤ Purpose of use PHP

- PHP is primarily used for server-side web development.
- It enables the creation of dynamic web pages by embedding PHP code within HTML.
- PHP can perform various tasks, including handling form data, generating dynamic page content, managing databases and interacting with server.

◆ Syntax

<?php

PHP code goes here

?>

❖ Example

```
<html>
```

```
<head>
```

```
    <title>PHP Hello World</title>
```

```
</head>
```

```
<body>
```

```
    <?php echo "Hello World! This Is The PHP code";?>
```

```
</body>
```

```
</html>
```

❖ Output

Hello World! This Is The PHP code

➤ Advantages of PHP

Since PHP is designed for the web in the first place, it brings many advantages to web development:

- Simple – PHP is quite easy to learn and get started.
- Fast – PHP websites typically run very fast.
- Stable – PHP is stable since it has been in existence for a long time.
- Open-source and free – PHP is open source and free. It means that you don't have to pay a license fee to use PHP to develop software products.
- Community support – PHP has an active online community that helps you whenever you face an issue.



➤ **About HTML/What is HTML**

- HTML stands for Hyper Text Markup Language.
- is the standard markup language used to create web pages.
- It's a combination of Hypertext, which defines the link between web pages, and Markup language, which is used to define the text document within tags to structure web pages.
- HTML is human-readable and uses tags to define what manipulation has to be done on the text.

➤ **Purpose of use HTML**

- This language is used to annotate text so that machines can understand and manipulation it accordingly.
- HTML is the human-readable and uses tags to define what manipulation has to be done on the text.
- All Browser support in HTML Language.

❖ **Example**

```
<html>  
    //To Display The Contant  
</html>
```

❖ **Syntax**

```
<html>
```

```
<head>
  <title>Hello World</title>
</head>
<body>
  <p>Hello World.</p>
</body>
</html>
```

❖ Output

Hello World.

➤ *Advantages of HTML*

- HTML helps to build structure of a website and is a widely used Markup language.
- It is easy to learn.
- Every browser supports HTML Language.
- HTML is light weighted and fast to load.
- Storage of big Fields are allowed because of the application cache feature. -Do not get to purchase any extra software because it's by default in every window.
- Loose syntax (although, being too flexible won't suit standards).
- HTML is simple to edit as being a plain text.



➤ *About CSS/What is CSS*

- CSS stands for Cascading Style Sheet.
- CSS is the inside the head and style tag.
- CSS is a stylesheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, MATHML or XHTML).
- CSS is easy to learn and understand.
- It gives great control over the presentation pf an HTML documents.
- CSS is combine with HTML and XHTML.
- .Purpose of use CSS

- CSS allow you to specify the style in which your XML elements are displayed.
- CSS were originally designed for use with HTML, but work for XML as well.
- Supports the separation of structure from presentation.
- If the HTML is the content and meaning, CSS helps to convert that meaning.
- Three Types Of CSS
 1. Inline CSS
 2. Internal CSS
 3. External CSS

❖ **Syntax**

Selector {Property: value; Property: value;}

❖ **Example**

```
<html>
  <head>
    <title>Hello World</title>

    <style>
```

```
p{
    color: red    text-
    align: center;
}
</style>
</head>
<body>
    <p>Hello World.</p>
</body>
</html>
```

❖ Output

Hello World.

➤ *Advantages of CSS*

1. Consistency and Global Styling

CSS ensures a consistent visual identity throughout a website or multiple web pages. By employing a single external CSS Field, it becomes possible to maintain a cohesive style, minimizing duplication and simplifying global styling updates.

2. Easier Maintenance and Efficient Updates

The separation of content and style in CSS simplifies maintaining web pages and implementing updates. By modifying a few lines of code in the central CSS Field, you can quickly adjust fonts, colors, and layouts without the need to edit each HTML element. This results in a more efficient and hassle-free maintenance process.

3. Time-Saving and Faster Loading Times

Utilizing external CSS Fields allows web browsers to cache the styling information, resulting in more efficient and faster page load times. This

optimization greatly enhances the overall user experience, especially for returning visitors. For instance, once a browser caches the CSS Field, it doesn't need to reload the styles on subsequent visits, reducing load times and improving site performance.

4. SEO-Friendly

Employing clean and structured CSS code can enhance your website's search engine optimization. By making your code more readable for search engine crawlers, CSS can potentially boost your site's search rankings, leading to increased visibility and traffic.



MySQL is an open-source relational database management system (RDBMS) that uses Structured Query Language (SQL) for database access and manipulation. It is known for its reliability, robustness, and ease of use. MySQL is widely used for web applications and is a central component of the LAMP stack (Linux, Apache, MySQL, PHP/Perl/Python).

❖ Syntax

```
CREATE DATABASE mydatabase;
```

❖ Example

```
CREATE TABLE users (  id INT AUTO_INCREMENT  
PRIMARY KEY,  username VARCHAR(50) NOT NULL,
```



```
email VARCHAR(100) NOT NULL,    created_at  
TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);
```

➤ Advantages of MySQL

1. **Open Source:** MySQL is free to use and distribute, making it a cost-effective solution for businesses.
2. **High Performance:** MySQL is designed for speed and efficiency, handling large databases with millions of rows.
3. **Cross-Platform:** It runs on various operating systems, including Linux, Windows, and macOS.
4. **Scalability:** MySQL supports large databases and can scale as your application grows.
5. **Security:** It offers robust security features, including encrypted connections, user authentication, and access control.
6. **Community Support:** A large community of developers and users provides extensive documentation, tutorials, and forums for support.
7. **Replication:** MySQL supports replication, allowing data from one database server to be replicated to another, enhancing redundancy and reliability.

➤ Disadvantages of MySQL

1. **Limited Advanced Features:** Compared to some other RDBMS like PostgreSQL, MySQL may lack some advanced features such as full ACID compliance in all storage engines.
2. **Performance Issues with Very Large Databases:** While MySQL handles large databases well, extremely large databases (terabytes of data) may require more specialized solutions.

3. **Complexity in Large-Scale Applications:** Managing MySQL databases in large-scale applications can become complex and may require expert knowledge.
4. **Storage Engine Limitations:** MySQL uses different storage engines (like InnoDB and MyISAM), each with its own strengths and weaknesses, which can sometimes lead to compatibility issues or the need for specific optimizations.
5. **Lack of Built-In Support for Advanced Analytics:** MySQL is not designed for advanced analytics or data warehousing out of the box, which might require integration with other tools or systems.

EXTRA TECHNOLOGY



JavaScript is a versatile, high-level programming language that is primarily used to create interactive effects within web browsers. It is one of the core technologies of the World Wide Web, alongside HTML and CSS. JavaScript enables the development of dynamic and interactive web applications by allowing developers to manipulate the Document Object Model (DOM), handle events, and make asynchronous requests to servers.

◆ Syntax

```
document.getElementById("myElement").innerHTML = "New content";
```

❖ Example

```
document.getElementById("myButton").addEventListener("click",  
function() { alert("Button clicked!");  
});
```

➤ Advantages of JavaScript

1. **Interactivity:** Enables dynamic and interactive web pages.
2. **Versatility:** Can be used for both client-side and server-side development (with Node.js).
3. **Rich Ecosystem:** Extensive libraries and frameworks (e.g., React, Angular, Vue.js).
4. **Event-Driven:** Excellent for handling user interactions.
5. **Asynchronous Capabilities:** Supports asynchronous operations, enhancing performance.
6. **Cross-Platform:** Runs on any device with a web browser.

➤ Disadvantages of JavaScript

1. **Security Issues:** Vulnerable to cross-site scripting (XSS) attacks.
2. **Browser Differences:** Inconsistent behavior across different browsers.
3. **Performance Issues:** Can be slower than compiled languages for complex computations.
4. **Client-Side Dependency:** Requires client-side execution, which can be disabled by users.
5. **Dynamic Typing:** Can lead to runtime errors due to lack of type checking.



Bootstrap is a popular open-source front-end framework that helps developers build responsive, mobile-first websites quickly and efficiently. It includes a collection of HTML, CSS, and JavaScript components for common interface elements such as buttons, forms, navigation, and modals. Created by Twitter, Bootstrap provides a consistent design and functionality across different browsers and devices.

❖ *Syntax*

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Bootstrap Example</title>
  <!-- Bootstrap CSS -->
  <link
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.
min.c ss" rel="stylesheet">
</head>
<body>
  <!-- Bootstrap components go here -->

  <!-- jQuery and Bootstrap JS -->
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</scrit >
  <script
```

```
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"> </script>
</body>
</html>
```

❖ Example

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse"
datatarget="#navbarNav" aria-controls="navbarNav" aria-
expanded="false" arialabel="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav">
      <li class="nav-item active">
        <a class="nav-link" href="#">Home <span
class="sr-only">(current)</span></a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Features</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Pricing</a>
      </li>
      <li class="nav-item">
        <a class="nav-link disabled" href="#" tabindex="-1"
ariadisabled="true">Disabled</a>
      </li>
    </ul>
  </div>
</nav>
```

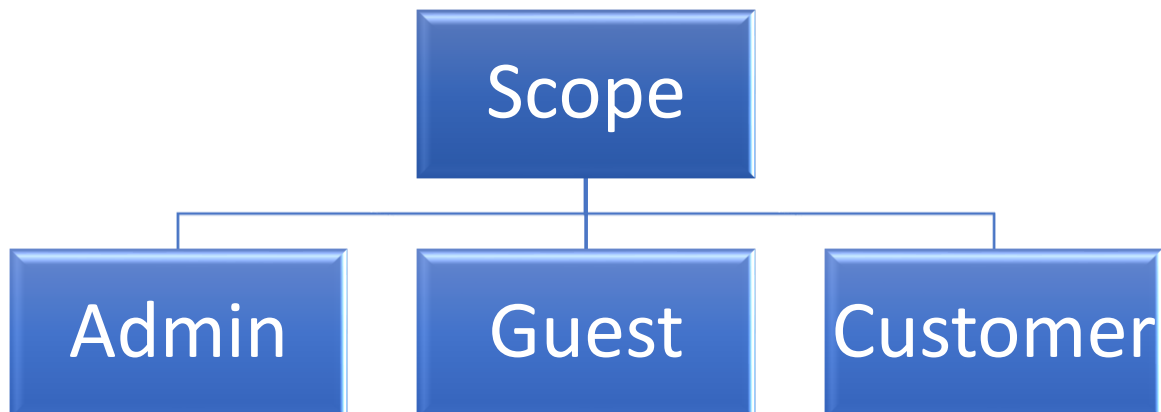
➤ Advantages of Bootstrap

1. Responsive Design: Bootstrap's responsive grid system and components ensure your website looks good on all devices.
2. Consistent Design: Provides a consistent look and feel across different browsers and devices.
3. Ease of Use: Easy to learn and use, with extensive documentation and examples.
4. Customization: Highly customizable with the ability to override default styles.
5. Community Support: Large community with a wealth of resources, plugins, and themes available.
6. Pre-styled Components: Includes a wide range of pre-styled components, saving development time.

➤ Disadvantages of Bootstrap

1. Learning Curve: Although easy to use, there is a learning curve to understanding and effectively using all of Bootstrap's features.
2. Overuse of Classes: Heavy use of classes can lead to bloated HTML and difficulty in maintaining code.
3. Uniform Look: Websites built with Bootstrap can sometimes look similar if default styles are not customized.
4. Performance: Including the entire Bootstrap library can increase the load time of your website, especially if you are only using a few components.
5. Dependency on jQuery: Some components depend on jQuery, adding to the overall page weight.

5. SCOPE



1) Admin

- **Membership and buying Management:** Administer memberships, Trainer, Accessibility of gym, Allocate operations.
- **Product and buying Management:** Products details and buy process.
- **Content Management:** Update website content like news, events, and gym info.
- **Data Analytics:** Members, Products data, and Gym performance reports.
- **User and Permission Management:** Manage roles, permissions, and user accounts (e.g., admin, staff, etc.).
- **Security and Compliance:** Ensure safety regulations, and data security are followed.

2) Guest

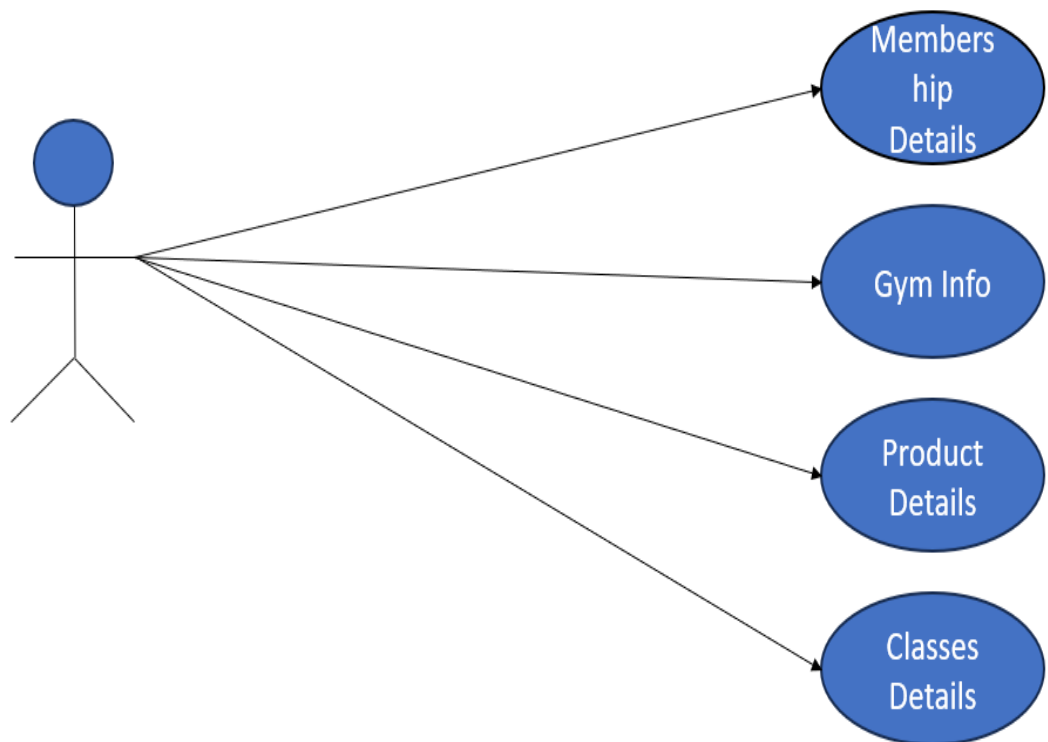
- **Browse Attractions:** View gym attractions, memberships, and products and classes without an account.
- **Gym Information:** Access basic info like trainer, timing, products, and FAQs.
- **Membership Pricing:** See available memberships options but need to log in or register for buying.
- **Visitor Guidelines:** Access safety regulations, gym rules, and visitor services.

3) Customer

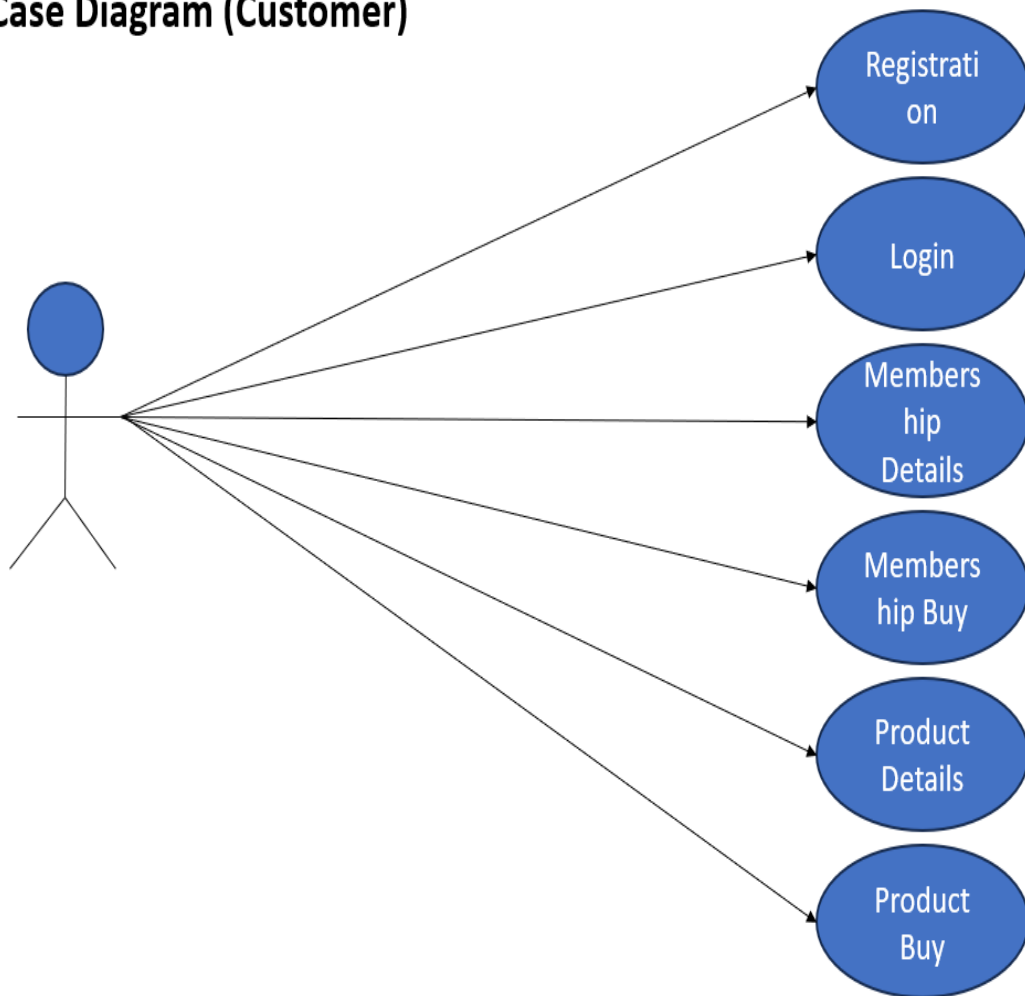
- **Membership Buying:** Browse membership options and buy membership online.
- **Product Buying:** Browse product options and buy products online.
- **User Profile Management:** Manage personal details, ticket history, and saved preferences.
- **Memberships:** Access benefits, points, and exclusive offers.
- **Contact and Support:** Access customer service for assistance and inquiries.

6.USECASE DIAGRAM

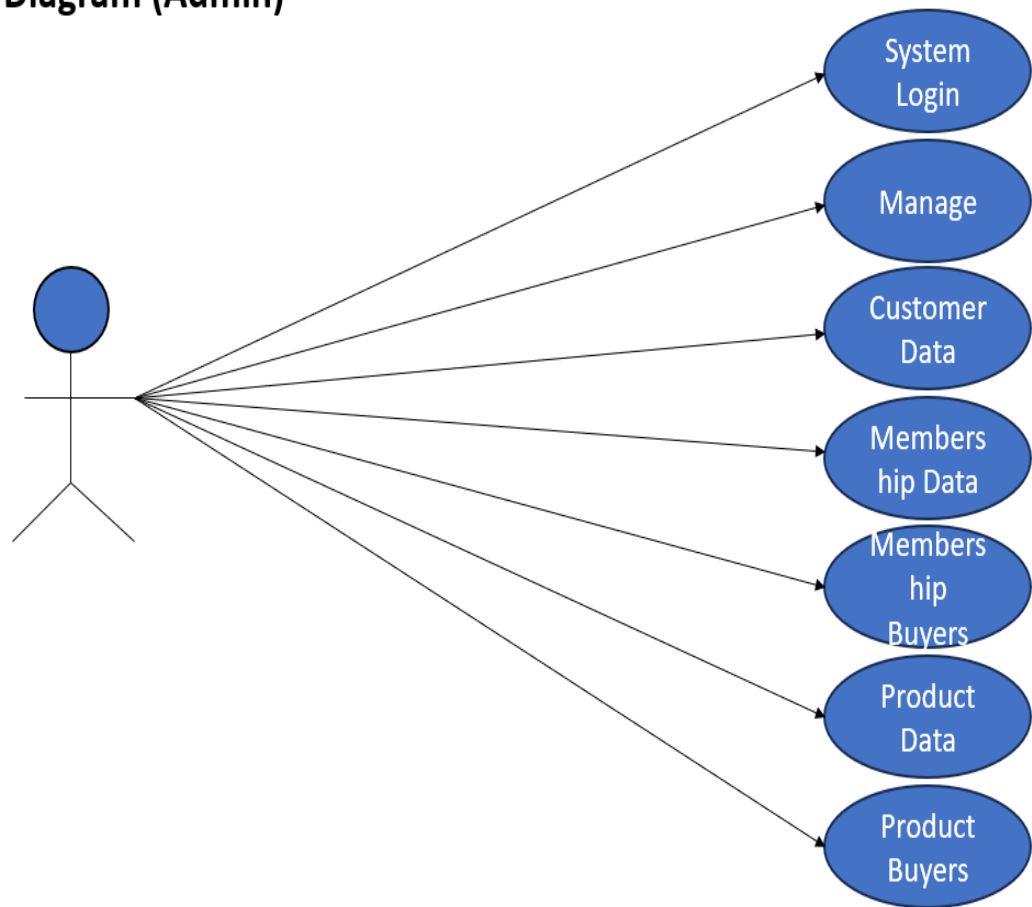
Use Case Diagram (Guest)



Use Case Diagram (Customer)

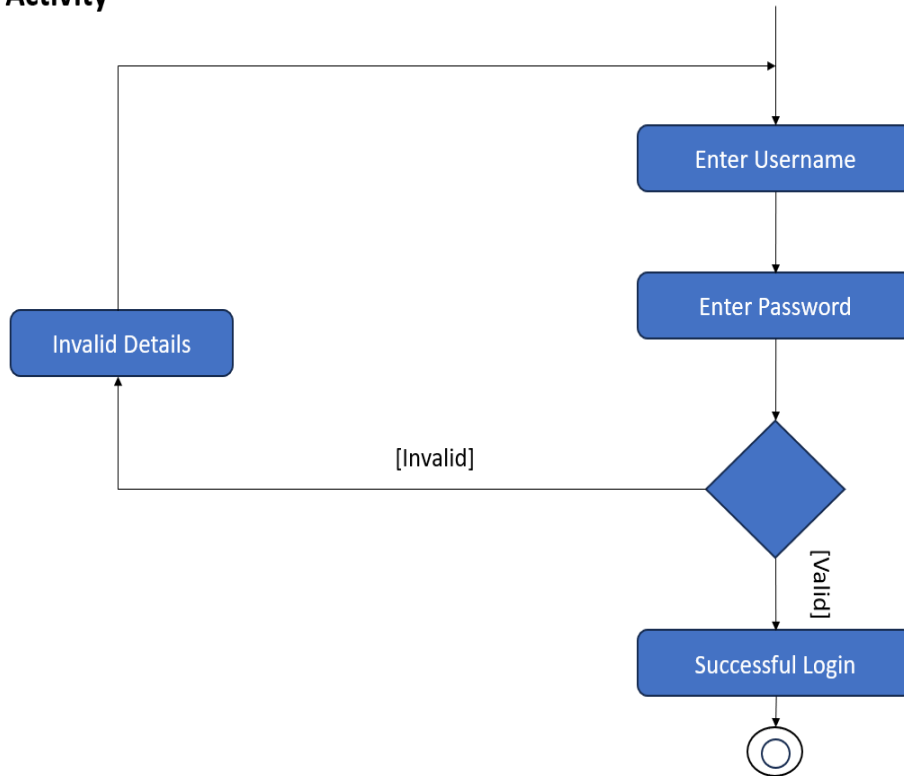


Use Case Diagram (Admin)

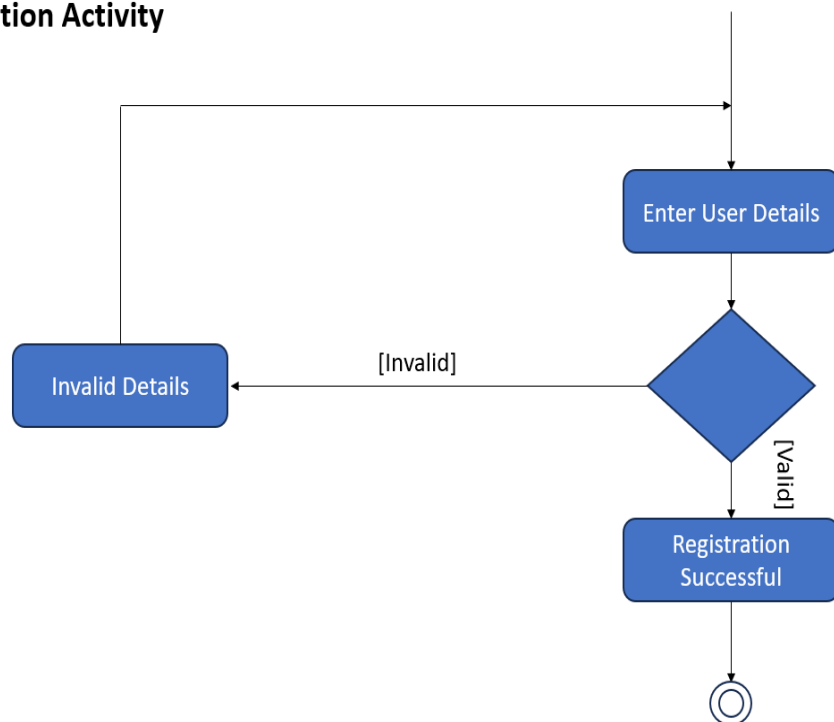


ACTIVITY DIAGRAM

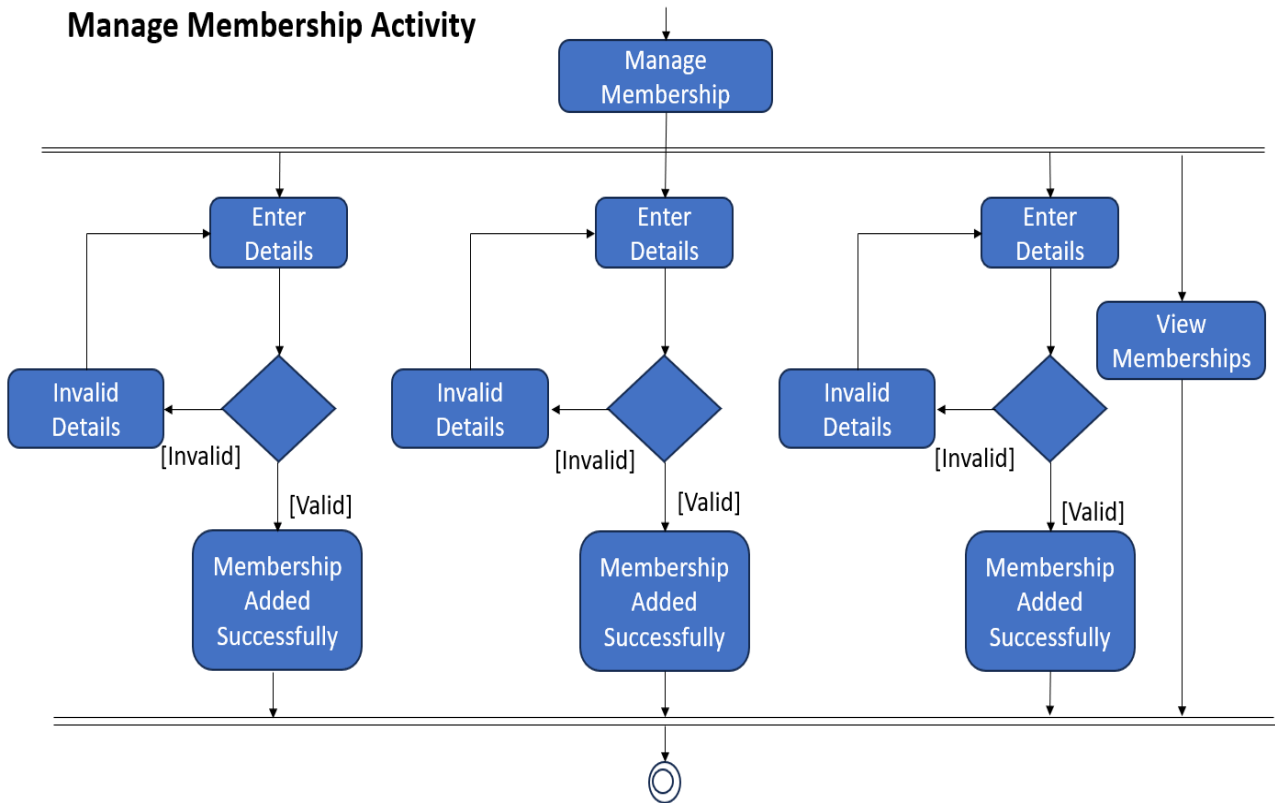
Login Activity



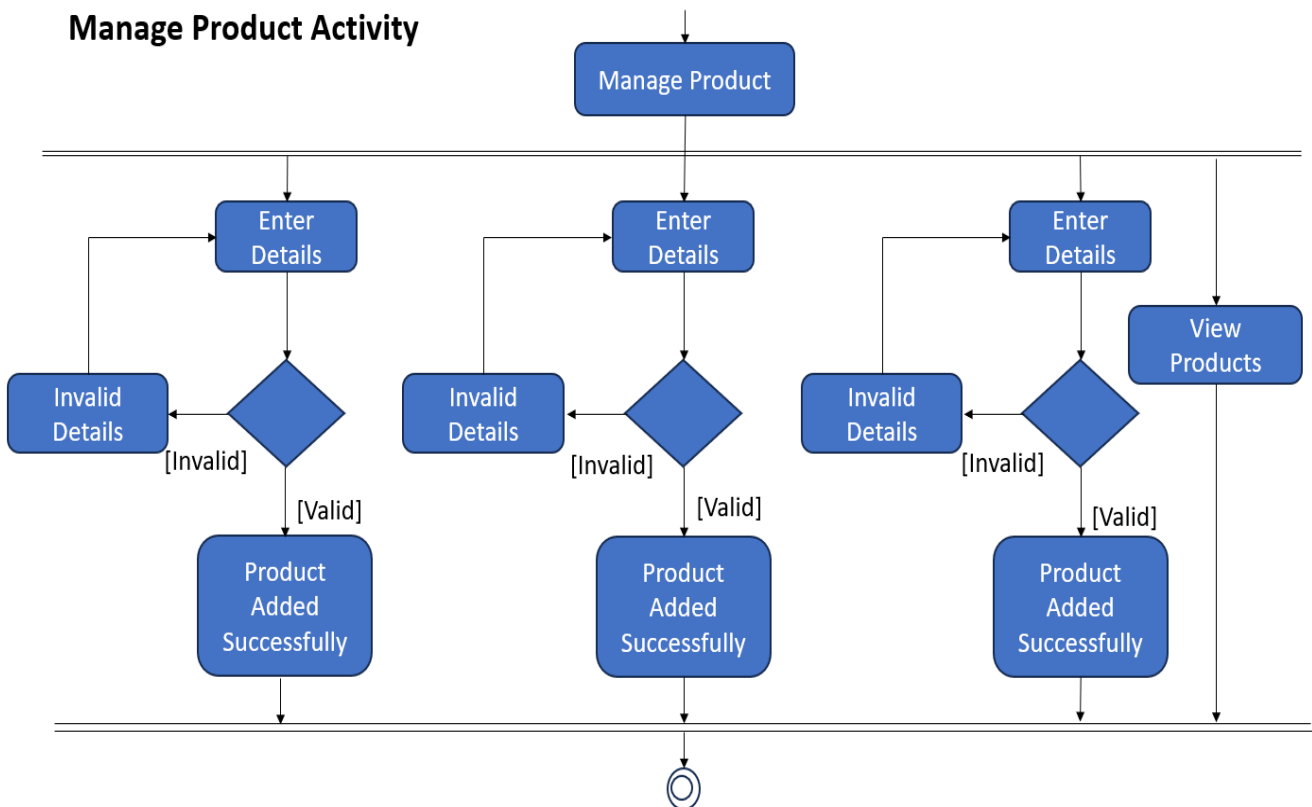
Registration Activity



Manage Membership Activity



Manage Product Activity



7. Database Design

Table Structure:

Customer: This table is store the data of Customer.

-Data is inserted in register page .

Name of the Field	Name in Field	Variable in php	Field name in database	Variable store in DB	Type in Field	Data type in Database
Id	txtid	\$id	id	\$id	Number	Int(3)
Name	txtname	\$name	name	\$name	Text	Varchar(20)
Gender	gen	\$gender	gender	\$gender	Radio Button	Text
Age	txtage	\$age	age	\$age	Number	Int(3)
Mobile Number	txtmobile	\$mobile	mobile	\$mobile	Number	Varchar(10)
E-mail	txtemail	\$email	email	\$email	Email	Varchar(20)
Password	txtpassword	\$password \$soltedpassword	password	\$soltedpassword	Text	Varchar(11)

Admin: This table is stored the data of Admin.

-Data is inserted manually in Database .

Field name in database	Data type in Database
id	Int(3)
name	Varchar(20)
gender	Text
age	Int(3)
mobile	Varchar(10)
email	Varchar(20)
password	Varchar(11)

Membership: This table is stored the data of which membership plan available in our website.

-This data is inserted from admin panel and insert or update by admin.

Name of the Field	Name in Field	Variable in php	Field name in database	Variable store in DB	Type in Field	Data type in Database
Package Id	txtpid	\$pid	pid	\$pid	number	Int(3)
Amount	txtamount	\$amount	amount	\$amount	number	Int(5)
Days	txtdays	\$days	days	\$days	number	Int(4)
Personal Trainer	txttrainer	\$trainer	trainer	\$trainer	Radio button	tinyint(1)
Access	txtaccess	\$access	access	\$access	Radio button	tinyint(1)
Personal Locker	txtlocker	\$locker	locker	\$locker	Radio button	tinyint(1)
Cardio	txtcardio	\$cardio	cardio	\$cardio	Radio button	tinyint(1)
Steam	txtsteam	\$steam	steam	\$steam	Radio button	tinyint(1)

Product: This table is stored the data of which product available in our website.

-This table data is inserted from admin panel and insert or update by admin.

Name of the Field	Name in Field	Variable in php	Field name in database	Variable store in DB	Type in Field	Data type in Database
Product Id	txtpid	\$pid	pid	\$pid	number	Int(3)
Name	txtname	\$name	pname	\$name	text	Varchar(20)
Price	txtprice	\$price	price	\$price	number	Int(5)
Image Name	tx mg	\$img	img	\$img	text	Varchar(20)

Buy: This table is stored the data of which customer has buy the membership plan.

-If the membership buy and done the payment by customer then inserting the data .

-Admin cannot update the data in this table.

Field name in database	Datatype in database
payid(payment id)	int(3)
id(customer id)	int(3)
name(customer name)	varchar(20)
mobile	int(10)
pid(membership id)	int(3)

Product_buy: This table is stored the data of which customer has buy the product.

-If the product buy and done the payment by customer then inserting the data.

-Admin cannot update the data in this table.

Field name in database	Datatype in database
payid(payment id)	int(3)
id(customer id)	int(3)
name(customer name)	varchar(20)
pid(product id)	int(3)
qty	int(3)
price	int(5)
total	int(10)

SESSION:

- Session is used to store the value of some periods of me . -
In this website we use the session.

TOTAL SESSIONS:

- \$_SESSION['id'] ~~ login customer or admin id.
- \$_SESSION ['user'] ~~ login customer name.
- \$_SESSION['user1']~~ login admin name.
- \$_SESSION['pid']~~ buy membership id.
- \$_SESSION['pid1']~~ buy product id.
- \$_SESSION['qty']~~ buy product qty.
- \$_SESSION['price']~~ buy product price. - \$_SESSION['total']~~ buy product total amount pay.

Pages:

- Pages are divided in 5 part.
- Join us
- Client panel
- Admin panel
- Membership manage
- Product manage

Join us:

- Login.php
- Registra on.php
- Register.css
- Login1.css
- Connec on.php

Client panel:

- Index2.php
- Style1.css
- Buy.php(Membership buy page)
- Buy.css
- Buy3.php(Product buy page)
- Payment.css
- Payment.php(Membership payment page)
- Payment2.php(Product payment page)

Admin panel:

- Admin.php(dashboard)
- Admin.css
- Buyer.php(membership buyer customer)
- Product_buy.php(product buyer customer)
- Product.php(all product)
- Member.php(all membership)
- Customer.php(all customer)

Membership manage:

- Add.php(insert the membership)
- Edit.php(update the membership)
- Delete.php(delete the membership)

Product manage:

- Padd.php(insert the product)
- Pedit.php(update the product)
- Pdelete.php(delete the product)

8. TEST CASES

Software Testing:

Software Testing Is A Critical Element Of Software Quality Assurance And

Represents The Ultimate Review Of Specification Design And Coding.

Testing Is An Exposure Of A System To Trial Input To See Whether It Produces Correct Output. Testing Cannot Be Determined

Whether Software Meets User's Needs, Only Whether It Appears to Confirm to Requirements. Testing Can Show That A System Is Free Of Errors, Only That It Contains Error. Testing Finds Errors, It Does Not Correct Errors. Software Success Is A Quality Product, On Time And Within Cost. Though Testing Can Revel Critical (Costly) Mistakes.

Therefore, Testing should be performed to:

- Validate Performance.
- Detects Errors.
- Identify Inconsistencies.

□ Test Objective:

There Is Strong Evidence That Effective Requirement Management Leads

To Overall Project Cost Savings. The Three Primary Reasons For This Are:

Requirement Errors Typically Cost Well Over 10 Times More To Repair Than Other Errors.

Requirement Errors Typically Comprise Over 40% Of All Errors In A Software Project.

Small Reduction In The Number Of Requirement Errors Pays Big Dividends In Avoided Rework Costs And Schedule Delays.

The Testing Procedure Should Care For All Of These, As Well As, In Order To Attain A Flawless, Error-Free And Efficient Functioning System; Too, Software Testing Is An Important Phase Of Any Software Development Life Cycle. Various Reports And Data Used For The Same Are The Core Of The System. The Testing, Therefore, Becomes Important In Order To Maintain The Cost As Well As Improve Performance And Consistency. The Testing Procedure For The System Has Been Divided In To Various Parts Ranging For Single Unit Testing To Entire System Testing.

□ Test Planning:

- Test Planning Evolves The Following Steps:
- Estimate The Size And Cost Of The Testing Efforts.
- May Allocate Test Resources.
- Schedule Test Activities in Accord with Other Development Work.
- Generate Test Cases.

□ Generating Testing Cases:

- A Test Case Is A Unit Of Testing Activity. Test Cases Have Three Parts:
 - Goal- The Aspect of the System Being Tested.

- Input And System State- Data Provided To The System Under Stated Conditions.
- Expected Behaviour- The Output Or Action The System Should Take According To These Requirements.

□ Test Case Selection:

The Presented System “Coderszone.Com” Is Tested Using

White Box Testing Which Is Based On The Internal Structure Of The System, May Also Called As Testing To Code, Path-Oriented Testing, Or Logical Driven Testing. A Common Goal Of White-Box Testing Is To Have A Test Case To Exercise Every Path Through A Program. This May Become Exhaustive.

Type of Testing We Performed

□ White Box Testing Case Selection:

Because Exhaustive White-Box Testing Is Infeasible, Test Or Code Coverage Metrics Are Used To Select Test Cases, Which Measure The Fraction Of Code Exercised By Test Cases. Test Cases Are Selected To Achieve Target Test Coverage Levels. □ Test Coverage Metrics

- **Statement Coverage:** The Fraction Of Statements Executed At Least Once Is Running A Collection Of Test Cases.

- **Branch Coverage:** The Fraction Of Total Branch Directions

That Have Been Taken At Least Once In Running A Collection Of Test Cases,

- **Path Coverage :** The Fraction Of Paths Taken At Least Once

In Running A Collection Of Test Cases, Where A “Path” Is Defined In Some Way To Limit The Totals Of Feasible Collection.

□ Unit Testing:

- The Presented System Is Tested First Using Unit Testing. Unit Testing Is Test Of Code Written By A Single Programmer.

□ Integration Testing:

Top-Down: Combine, Test And Debug Top-Levelled Routines That Become The Integration Test That Harms For Lower-Level Units.

Bottom-Up: Combine, Test Low-Level Routines Into Progressively Larger Modules And Subsystems.

Sandwich: Mainly top-down with bottom-up integration and testing applied to certain widely used components.

□ Integration Testing:

The system is tested using sandwich testing so as it has integrated advantages of both the top-down integration as well as bottom-up

integration testing.

□ Advantages of Using Top Down Integration:

- The top levels of the system are tested the most.
- Distributes integration and testing throughout the coding phase.
- Tends to make bug location easier.
- Minimizes test harms creation.

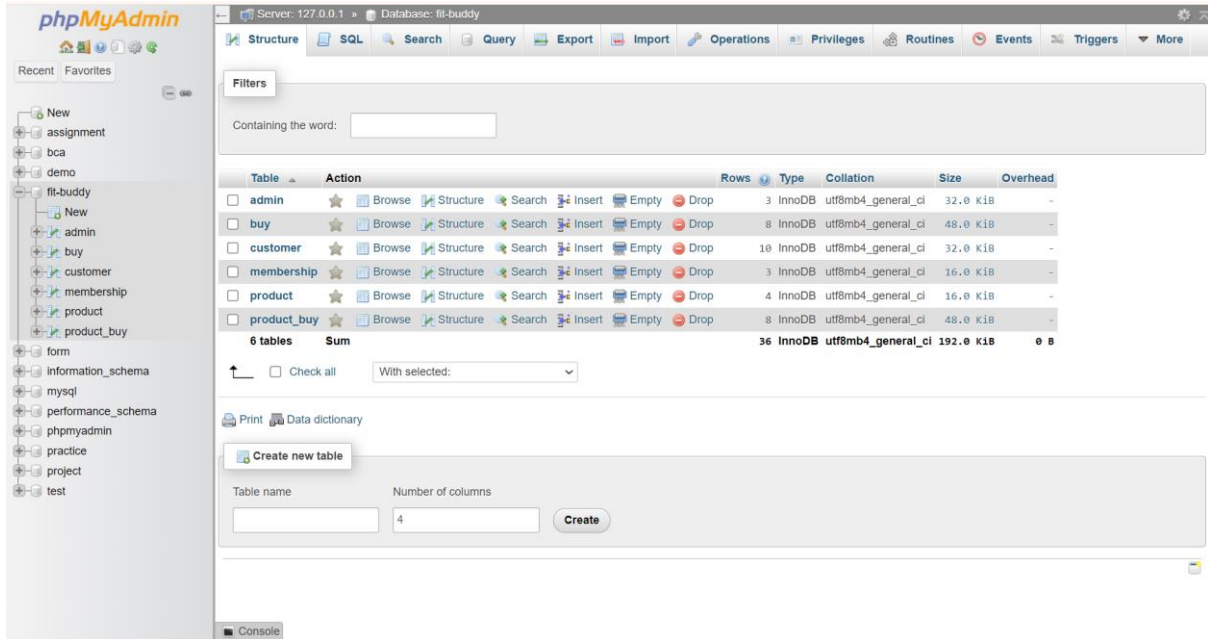
□ Advantages of Using Bottom-Up Integration:

Works well early in the integration process; thorough testing is possible and bugs are easy to be found.

□ Test Completion:

- White-box test coverage targets are met.
- Rate of error discovery reduced the target value.
- Measured reliability of the system achieves its target value.

ADMIN MYSQL SERVER



The screenshot shows the phpMyAdmin interface for a MySQL server. The left sidebar displays a tree view of databases, with 'fit-buddy' selected. The main panel shows the 'Structure' tab for the 'fit-buddy' database. A table list is displayed with columns: Table, Action, Rows, Type, Collation, Size, and Overhead. Below the table list, there is a 'Create new table' form with fields for 'Table name' and 'Number of columns' (set to 4), and a 'Create' button. The bottom of the interface shows a 'Console' tab.

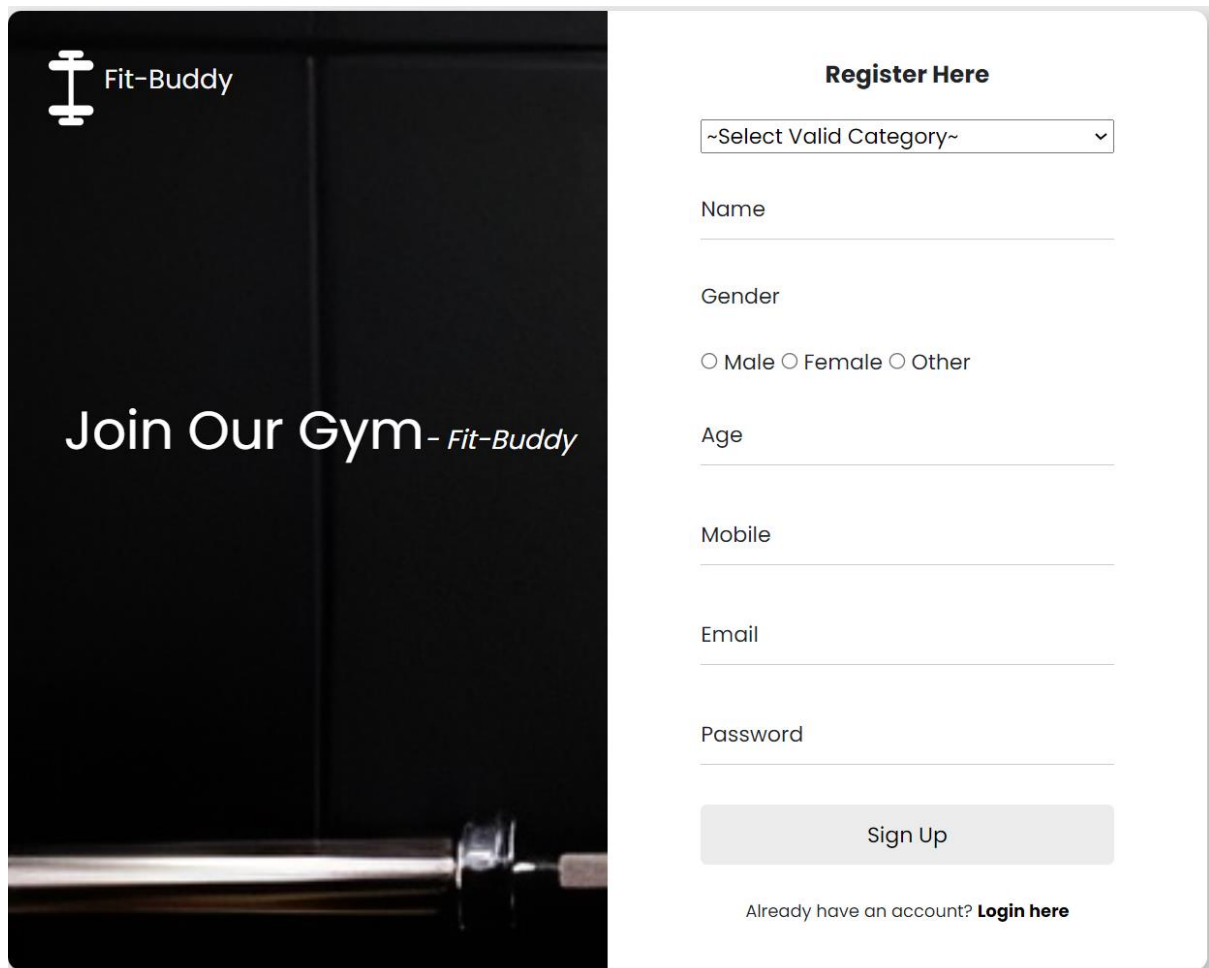
Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> admin		3	InnoDB	utf8mb4_general_ci	32.0 K1B	-
<input type="checkbox"/> buy		8	InnoDB	utf8mb4_general_ci	48.0 K1B	-
<input type="checkbox"/> customer		10	InnoDB	utf8mb4_general_ci	32.0 K1B	-
<input type="checkbox"/> membership		3	InnoDB	utf8mb4_general_ci	16.0 K1B	-
<input type="checkbox"/> product		4	InnoDB	utf8mb4_general_ci	16.0 K1B	-
<input type="checkbox"/> product_buy		8	InnoDB	utf8mb4_general_ci	48.0 K1B	-
6 tables	Sum	36	InnoDB	utf8mb4_general_ci	192.0 K1B	0 B

Below the table list, there is a 'Create new table' form with the following fields:


- Table name:
- Number of columns:
- Create button:

SCREEN LAYOUT CLINET SIDE

REGISTRATION PAGE



The registration page layout is divided into two main sections. The left section features a dark background with a blurred image of a gym interior. It includes the Fit-Buddy logo in the top left corner and the text "Join Our Gym - *Fit-Buddy*" in the center. The right section is a white registration form titled "Register Here". It contains a dropdown menu for category selection, followed by input fields for Name, Gender, Age, Mobile, Email, and Password. A "Sign Up" button is positioned below the password field, and a link to "Login here" is provided for existing users.

Fit-Buddy

Join Our Gym - *Fit-Buddy*

Register Here

~Select Valid Category~

Name

Gender

☐ Male ☐ Female ☐ Other

Age

Mobile

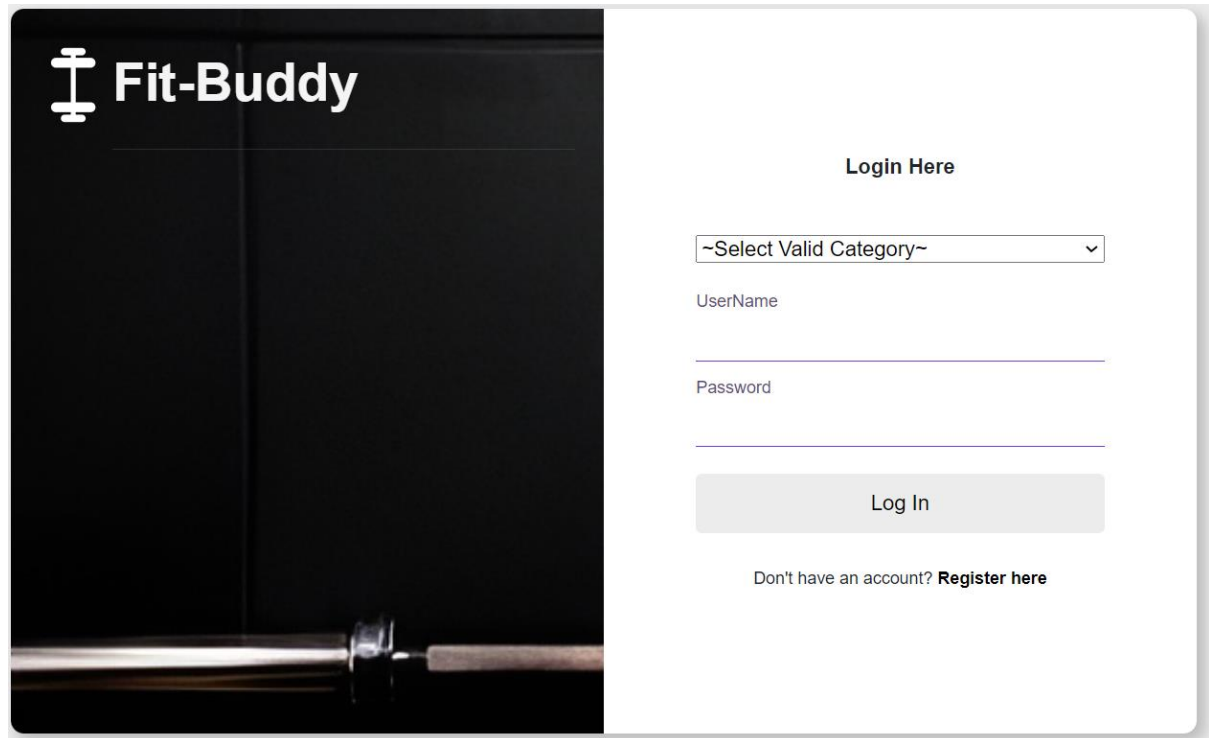
Email

Password

Sign Up

Already have an account? [Login here](#)

LOGIN PAGE

A screenshot of the Fit-Buddy login page. The page is split into two main sections. The left section has a dark background with the Fit-Buddy logo in the top left corner. The right section is a white card with rounded corners. At the top of the card is the heading "Login Here". Below this is a dropdown menu with the text "~Select Valid Category~" and a downward arrow. Under the dropdown are two text input fields, one labeled "UserName" and the other "Password". Below these fields is a light gray button with the text "Log In". At the bottom of the card, there is a link that says "Don't have an account? Register here".

Fit-Buddy

Login Here

~Select Valid Category~

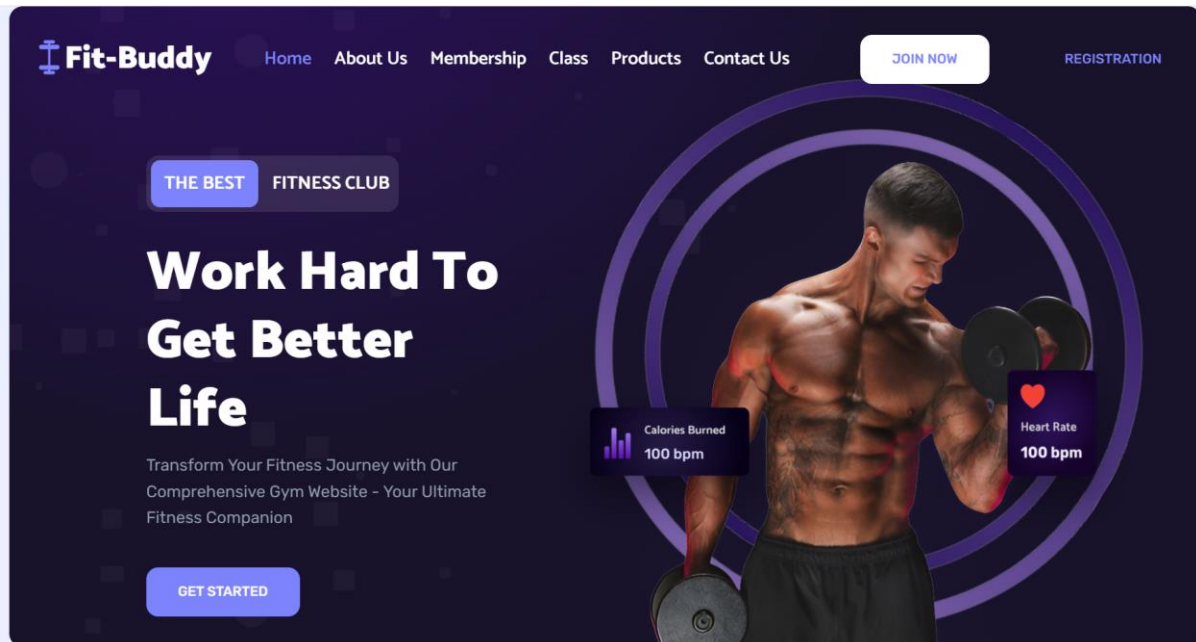
UserName

Password

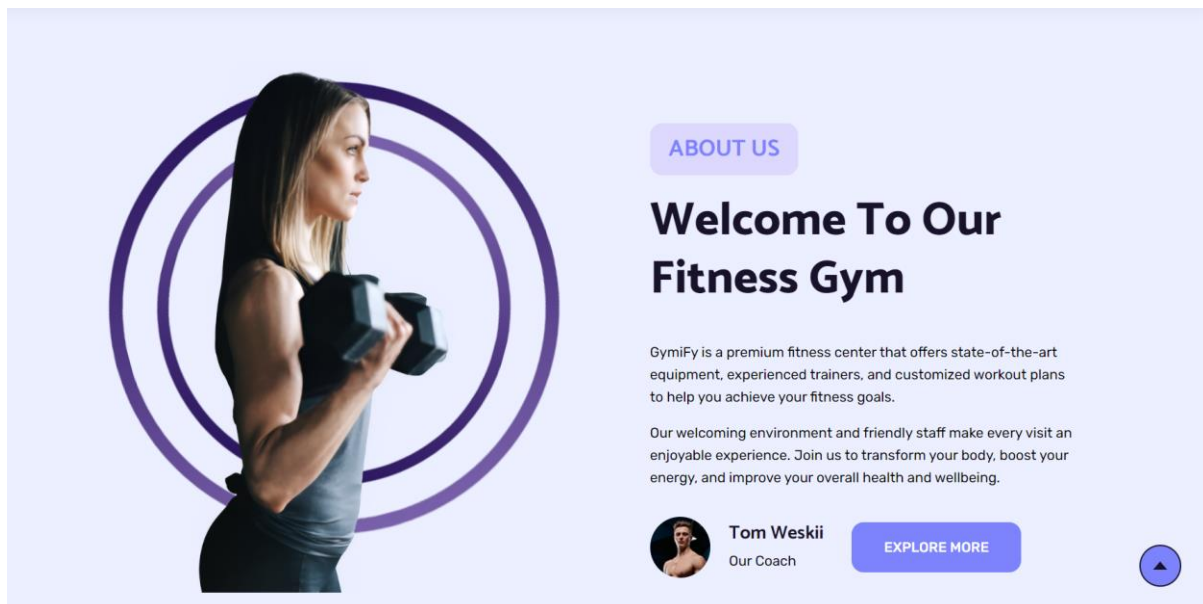
Log In

Don't have an account? [Register here](#)

HOME PAGE



ABOUT US PAGE



MEMBERSHIP PAGE

OUR MEMBERSHIP

Explore it!

28 Days

₹2500/-

✓ General Trainer

✓ Full Gym Access

✗ Locker

✗ Cardio

✗ Steam

BUY NOW

52 Days

₹4999/-

✓ General Trainer

✓ Full Gym Access

✗ Locker

✗ Cardio

✗ Steam

BUY NOW

15 Days

₹2899/-

✓ General Trainer

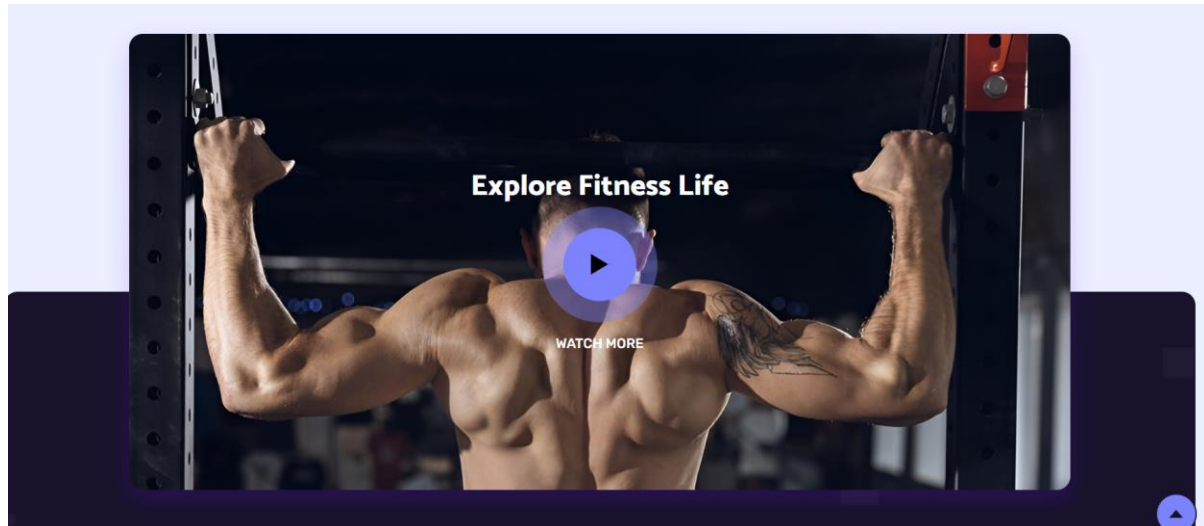
✓ Full Gym Access

✓ Locker

✓ Cardio

✓ Steam


BUY NOW




CLASSES PAGE

OUR CLASSES

Fitness Classes For Every Goal







Weight Lifting

ClassName:Weight Lifting
 Time: 8 am
 Trainer: Ayush Parmar

Class Full 85%







Cardio & Strength

ClassName:Cardio & Strength
 Time: 8 am
 Trainer: Ayush Parmar

Class Full 70%






Power Yoga


ClassName:Power Yoga
 Time: 8 am
 Trainer: Ayush Parmar

Class Full 90%

OUR CLASSES

Fitness Classes For Every Goal







Cardio & Strength

ClassName:Cardio & Strength
 Time: 8 am
 Trainer: Ayush Parmar

Class Full 70%

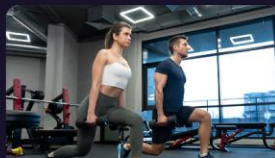





Power Yoga

ClassName:Power Yoga
 Time: 8 am
 Trainer: Ayush Parmar

Class Full 90%





The Fitness Pack


ClassName:The Fitness Pack
 Time: 8 am
 Trainer: Ayush Parmar

Class Full 65%

PRODUCTS PAGE


PRODUCTS

Energize yourself using this products




ProductId: p1
ProductName: Dumbells
Price: 1999/-

BUY



ProductId: p2
ProductName: Barbell
Price: 7599/-

BUY




ProductId: p3
ProductName: Treadmill
Price: 16699/-

BUY


PRODUCTS

Energize yourself using this products




ProductId: p2
ProductName: Barbell
Price: 7599/-

BUY



ProductId: p3
ProductName: Treadmill
Price: 16699/-

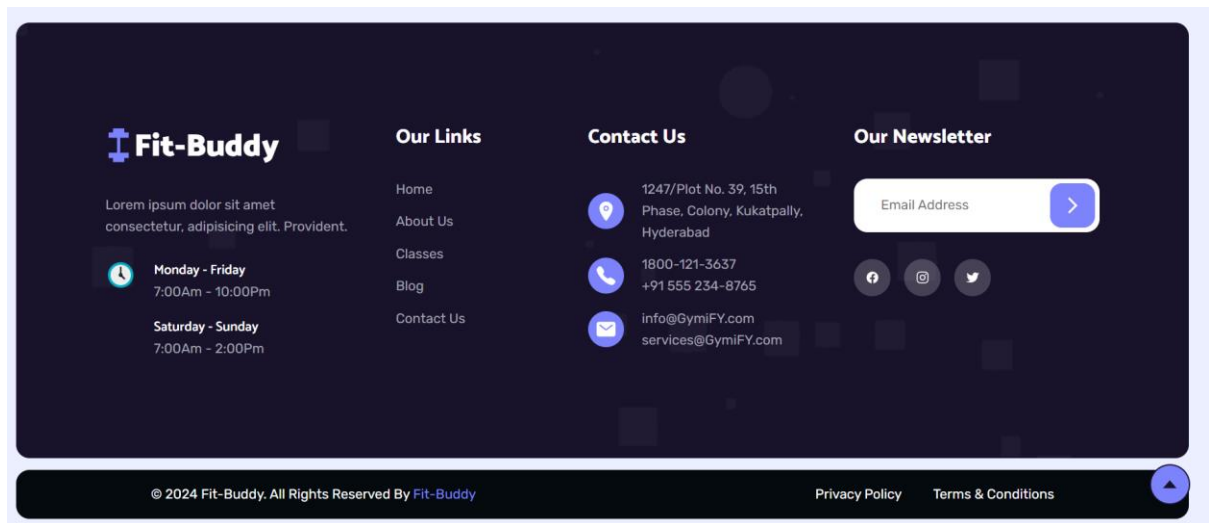
BUY



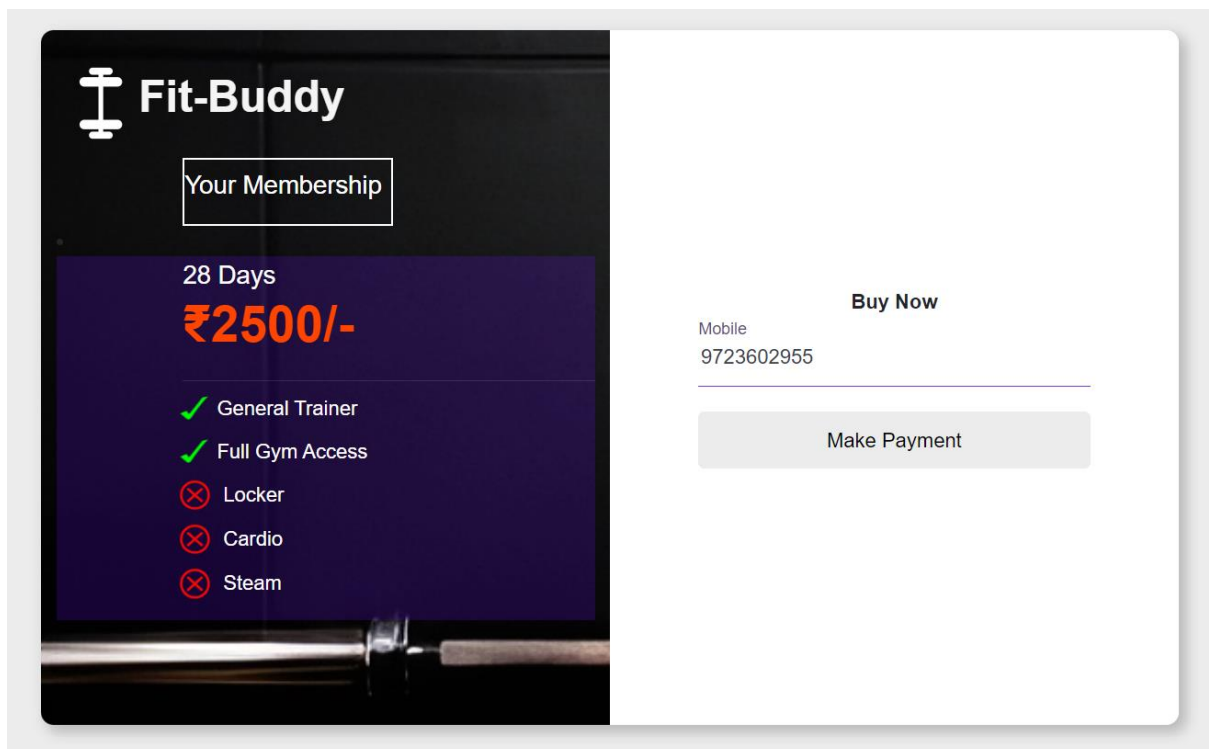
ProductId: p4
ProductName: Ab roller
Price: 599/-

BUY

CONTACT US PAGE







MEMBERSHIP BUY PAGE



PAYMENT PAGE

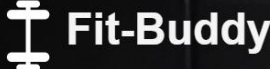
Confirm Your Payment

Enter UPI-ID




UPI ID: patelaryan232004@oksbi

PRODUCT BUY PAGE



Your Product



Dumbbells
₹1999/-

Buy Now

Qty	7996	<input type="button" value="Make Payment"/>
1		
<input type="button" value="Go"/>		Total

PAYMENT PAGE

Confirm Your Payment

Total Payable Amount

7996

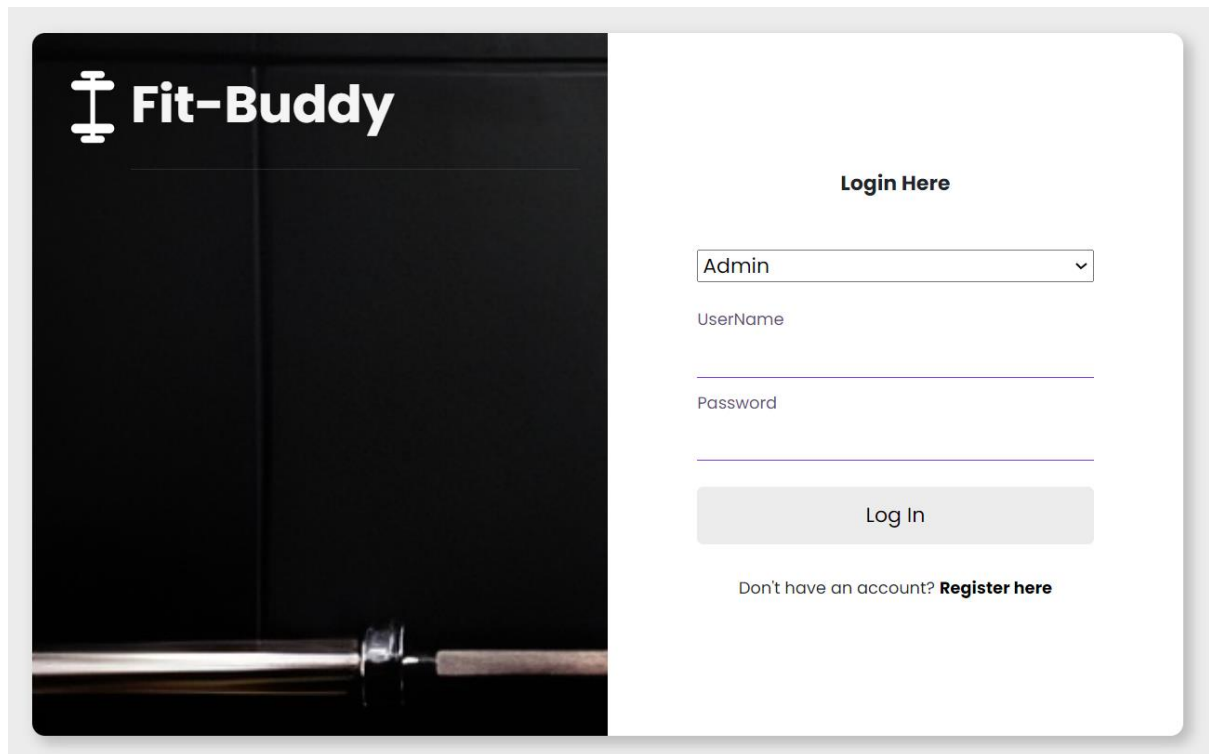
Pay



UPI ID: patelaryan232004@oksbi

SCREEN LAYOUT ADMIN SIDE

Login page



The image shows a screenshot of the Fit-Buddy Admin Login page. The page is divided into two main sections. On the left, there is a dark background with the Fit-Buddy logo and a horizontal line. On the right, there is a white background with the text 'Login Here' at the top. Below this, there is a dropdown menu with 'Admin' selected. Underneath the dropdown, there are two input fields labeled 'UserName' and 'Password'. Below these fields is a 'Log In' button. At the bottom, there is a link that says 'Don't have an account? Register here'.

Fit-Buddy

Login Here

Admin

UserName

Password

Log In

Don't have an account? [Register here](#)

ADMIN DASHBOARD PAGE

[Admin Dashboard](#)[Log Out](#)

Welcome
Aryan

MEMBERSHIPS
BUYERS

PRODUCT BUYERS

PRODUCT

SHOW MEMBERSHIPS

SHOW CUSTOMERS

Content

ALL CUSTOMERS PAGE

[Go To Dashboard](#)[Log Out](#)

Welcome
Aryan

MEMBERSHIPS
BUYERS

PRODUCT BUYERS

PRODUCT

SHOW MEMBERSHIPS

SHOW CUSTOMERS

All Customers

Customer Id	Name	Gender	Age	Mobile Number	Email
1	ayush	male	12	8140706086	ayush@gmail.com
2	jay	male	19	4567891235	jay@gmail.com
3	Nilesh	female	19	9923736651	nilesh@gmail.com
4	Aryan	male	20	9023852771	aryan@gmail.com
5	Jaya	other	50	1234567895	jaya@gmil
6	krishna	male	20	9316474878	pk@gmail.com
8	dhruv	male	20	9824748568	pandav@gmail.com
9	jay	male	20	1234567890	jay@gmail.com
11	dhruv	male	20	4561237892	dhruv@gmail.com
12	Pappu	male	20	7698900216	pappu@gmail.com
13	Nishil	male	18	9723602955	nishil@gmail.com

MEMBERSHIP DATA PAGE

[Go To Dashboard](#)[Log Out](#)

Welcome
Aryan

MEMBERSHIPS
BUYERS

PRODUCT BUYERS

PRODUCT

SHOW MEMBERSHIPS

SHOW CUSTOMERS

Available membership

Package Id	Amount	Days	Personal Trainer	Full Access	Personal Locker	cardio	steam	Operations	
1	2500	28	Allocate	Allocate	Not Allocate	Not Allocate	Not Allocate	Edit	Delete
2	4999	52	Allocate	Allocate	Not Allocate	Not Allocate	Not Allocate	Edit	Delete
3	2899	15	Allocate	Allocate	Allocate	Allocate	Allocate	Edit	Delete

[Add Membership Package](#)

VIEW MEMBERSHIP BUYERS PAGE

[Go To Dashboard](#)[Log Out](#)

Welcome
Aryan

MEMBERSHIPS
BUYERS

PRODUCT BUYERS

PRODUCT

SHOW MEMBERSHIPS

SHOW CUSTOMERS

All Membership Buyer Customers

Payment Id	Customer Id	Name	Mobile Number	Package Id
4	1	ayush	8140706086	1
5	1	ayush	8140706086	1
6	1	ayush	8140706086	1
7	1	ayush	8140706086	1
8	1	ayush	8140706086	1
9	8	dhruv	9824748568	2
10	2	jay	4567891235	2
11	9	jay	1234567890	1
12	4	Aryan	9023852771	1
13	13	Nishil	9723602955	1

PRODUCT DATA PAGE

[Go To Dashboard](#)[Log Out](#)

Welcome
Aryan

MEMBERSHIPS
BUYERS

PRODUCT BUYERS

PRODUCT

SHOW MEMBERSHIPS

SHOW CUSTOMERS

All Products

Product Id	Name	Price	Image Name	Operations	
1	Dumbells	1999	p1.jpeg	Edit	Delete
2	Barbell	7599	p2.jpeg	Edit	Delete
3	Treadmill	16699	p3.jpeg	Edit	Delete
4	Ab roller	599	p4.jpeg	Edit	Delete

[Add Product](#)

PRODUCT BUYERS PAGE

[Go To Dashboard](#)[Log Out](#)

Welcome
Aryan

MEMBERSHIPS
BUYERS

PRODUCT BUYERS

PRODUCT

SHOW MEMBERSHIPS

SHOW CUSTOMERS

All Product Buyer Customers

Payment Id	Customer Id	Name	Product Name	Qty	Price	Total
1	1	ayush	Dumbells	5	2000	10000
2	1	ayush	Barbell	5	7599	37995
4	1	ayush	Dumbells	5	2000	10000
5	1	ayush	Dumbells	2	2000	4000
6	4	Aryan	Dumbells	10	1999	19990
7	11	dhruv	Dumbells	2	1999	3998
8	12	Pappu	Dumbells	10	1999	19990
9	11	dhruv	Dumbells	2	1999	3998
10	4	Aryan	Dumbells	3	1999	5997
11	13	Nishil	Dumbells	2	1999	3998

**THANK YOU FOR
YOUR VALUABLE
TIME**