



Front End Engineering-II Project

Project : Gym Management System

Team Details:

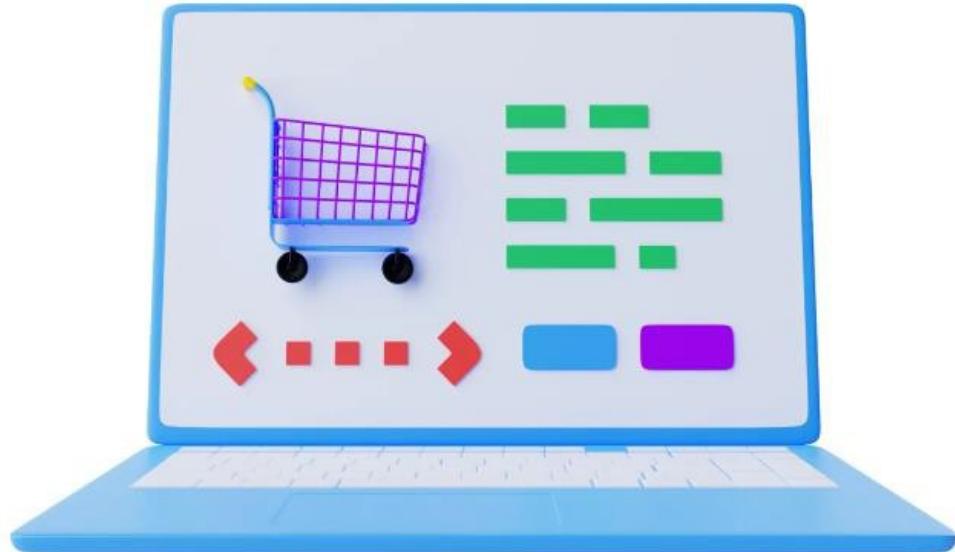
MEMBERS:

1. Abhay pratap singh(2410990972)
2. Chetanya bhardwaj(2410991020)
3. DILJOT SINGH(2410991039)

Faculty: Mr. Shadab Ansari

Table of Contents

- Introduction
- Objectives
- Problem Statement
- Technical Details
- Key Features
- Project Highlights
- Bonus Feature(optional)
- Conclusion
- References/Links used



Introduction

- GymBuddy is a complete Gym Management System designed to automate and simplify all gym operations. It manages member registrations, trainer schedules, attendance tracking, and payment records. With a centralized database, it ensures smooth data flow between members, trainers, and admins, providing a secure and user-friendly platform for better gym management.
 - Automates gym operations seamlessly
 - Centralized and secure database management
 - User-friendly interface for admins, trainers, and members



Objectives



- The objective of GymBuddy is to replace traditional manual systems with a modern, automated solution that increases efficiency and accuracy. The system aims to reduce paperwork, simplify processes, and improve communication between gym members, trainers, and management.
 - Automate registration, attendance, and payment processes
 - Provide personalized plans for members
 - Generate quick reports for better decision-making



Problem Statement

- Traditional gym management involves maintaining paper records, which is time-consuming, error-prone, and difficult to track. Manual systems make it challenging to monitor payments, memberships, and attendance accurately. Trainers also struggle to manage workout plans efficiently.
 - Time-consuming manual processes
 - Data duplication and calculation errors
 - Difficulty in tracking payments and attendance



Proposed System

- GymBuddy provides a centralized, automated platform that integrates all gym operations. Members can register online, select membership plans, make payments, and access personalized schedules. Trainers can assign workout plans and track member progress, while admins oversee operations through a single dashboard.
 - Online member registration and payment management
 - Automated trainer scheduling and attendance tracking
 - Real-time reports for admins and trainers

Technical Details



1. HTML (HyperText Markup Language)

Semantic Elements: Usage of elements like `<header>`, `<nav>`, `<main>`, `<section>`, `<article>`, and `<footer>` to structure content.

2. Forms: Creation of forms for user input (e.g., sign-up, checkout) using `<form>`, `<input>`, `<select>`, and `<button>`.

3. Images and Media: Usage of `` for product images and `<video>` or `<audio>` for promotional content^[2].

4. CSS (Cascading Style Sheets)

Responsive Design: Utilization of media queries to ensure the website looks good on various devices.



5. Flexbox/Grid Layout: Implementation of Flexbox or CSS Grid for flexible and responsive layouts.

6. Animations and Transitions: Usage of CSS transitions and animations for interactive elements (e.g., hover, action)



7. Alt Text: Include alt attributes for images to improve accessibility and search engine ranking.

8. Testing and Debugging

Cross-Browser Testing: Testing website on different browsers and devices to ensure compatibility.^[5]

9. Validation: Usage of tools to validate HTML and CSS for standards compliance.



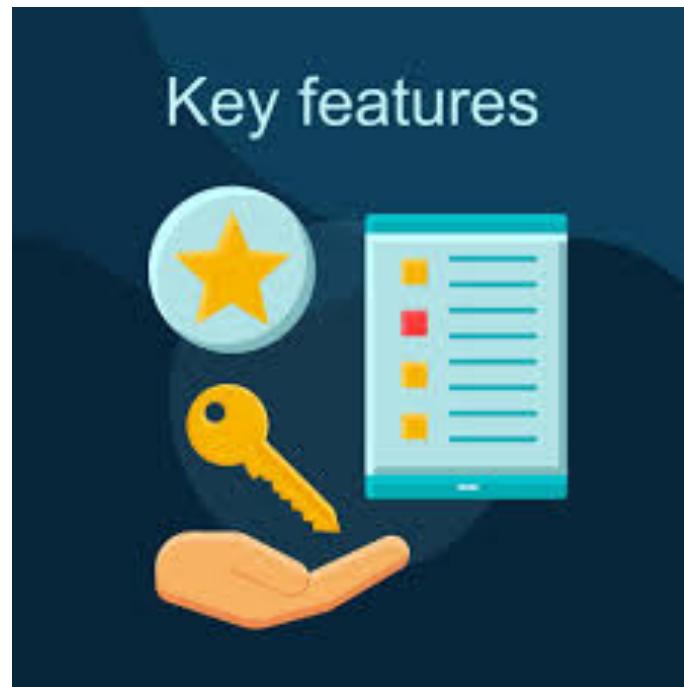
Key Features

1. Member Management

- Online member registration & profile management
- Membership plan selection & renewal reminders
- Progress tracking, workout & diet schedules
- View attendance & payment history

2. Trainer Management

- Assign personalized workout & diet plans
- Manage member schedules & progress
- Track member attendance & performance



3. Attendance Management

- Automatic check-in & check-out system
- Real-time attendance reports
- Alerts for inactive members

4. Payment & Billing

- Online & offline payment handling
- Automated invoices & receipts
- Payment reminders & pending payment tracking

5. Admin Dashboard

- Manage members, trainers, and plans
- Access reports & analytics
- Configure fees and membership plans

Project Highlights: HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>GymBuddy – Gym Management System</title>
    <link rel="stylesheet" href = "style.css">

</head>
<body>
    <video autoplay muted loop>
        <source src="Earth1.mp4" type="video/mp4">
        Your browser does not support HTML5 video.
    </video>
    <header>
        <nav class="container">
            <a href="#" class="logo">GymBuddy</a>
            <ul class="nav-links">
                <li><a href="#" onclick="showSection('dashboard')" class="active">Dashboard</a></li>
                <li><a href="#" onclick="showSection('members')">Members</a></li>
                <li><a href="#" onclick="showSection('trainers')">Trainers</a></li>
                <li><a href="#" onclick="showSection('equipment')">Equipment</a></li>
                <li><a href="#" onclick="showSection('classes')">Classes</a></li>
                <li><a href="#" onclick="showSection('payments')">Payments</a></li>
                <li><a href="#" onclick="showSection('reports')">Reports</a></li>
                <li><a href="login.html" onclick="showSection('Login')">login</a></li>
            </ul>
        </nav>
    </header>

    <main class="container">

        <section id="dashboard" class="section active">
            <h2>Dashboard Overview</h2>
            <div class="dashboard-grid">
                <div class="dashboard-card">
                    <h3>Total Members</h3>
                    <div class="number">342</div>
                    <p>Active Memberships</p>
                </div>
                <div class="dashboard-card">
                    <h3>Monthly Revenue</h3>
                </div>
            </div>
        </section>
    </main>
</body>
```

Project Highlights: CSS



```
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

body {
    font-family: 'Arial', sans-serif;
    line-height: 1.6;
    color: #333;
    background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
    min-height: 100vh;
}

video {
    position: fixed;
    right: 0;
    bottom: 0;
    min-width: 100%;
    min-height: 100%;
    width: 100%;
    height: 100%;
    object-fit: contain;
    background: black;
    z-index: -1;
}

.container {
    max-width: 1200px;
    margin: 0 auto;
    padding: 0 20px;
}

header {
    background: #rgba(255, 255, 255, 0.95);
    backdrop-filter: blur(10px);
    padding: 1rem 0;
    position: fixed;
    top: 0;
    left: 0;
    right: 0;
    z-index: 1000;
    box-shadow: 0 2px 20px #rgba(0, 0, 0, 0.1);
}

nav {
    display: flex;
    justify-content: space-between;
    align-items: center;
}
```

```
.logo {
    font-size: 2rem;
    font-weight: bold;
    color: #667eea;
    text-decoration: none;
}

.nav-links {
    display: flex;
    list-style: none;
    gap: 2rem;
}

.nav-links a {
    text-decoration: none;
    color: #333;
    font-weight: 500;
    transition: color 0.3s;
    cursor: pointer;
}

.nav-links a:hover,
.nav-links a.active {
    color: #667eea;
}

main {
    margin-top: 80px;
    padding: 2rem 0;
}

.section {
    display: none;
    position: relative;
    top: 140px;
    background: #rgba(255, 255, 255, 0.95);
    backdrop-filter: blur(10px);
    border-radius: 20px;
    padding: 2rem;
    margin-bottom: 2rem;
    box-shadow: 0 8px 32px #rgba(0, 0, 0, 0.1);
}

.section.active {
    display: block;
}
```



Dashboard Overview

Total Members

342

Active Memberships

Monthly Revenue

\$28,540

This Month

Active Trainers

18

Available Today

Equipment Status

95%

Operational

Recent Activities

Member

Time

Status

New Membership Registration

Diljot Singh

2 hours ago

Completed

New Membership Registration

Chetanya Bhardwaj

5 hours ago

Completed

Payment Received

Abhay pratap singh

4 hours ago

Processed

Equipment Maintenance

Treadmill #3

1 day ago

Pending

HTML:Equipment

```
<section id="equipment" class="section">
  <h2>Equipment Management</h2>

  <form class="form-grid">
    <div class="form-group">
      <label>Equipment Name</label>
      <input type="text" placeholder="Enter equipment name">
    </div>
    <div class="form-group">
      <label>Category</label>
      <select>
        <option>Cardio</option>
        <option>Strength</option>
        <option>Free Weights</option>
        <option>Functional</option>
      </select>
    </div>
    <div class="form-group">
      <label>Purchase Date</label>
      <input type="date">
    </div>
    <div class="form-group">
      <label>Warranty Period</label>
      <input type="text" placeholder="e.g., 2 years">
    </div>
    <div class="form-group">
      <label>Maintenance Schedule</label>
      <select>
        <option>Weekly</option>
        <option>Monthly</option>
        <option>Quarterly</option>
        <option>Annually</option>
      </select>
    </div>
    <div class="form-group">
      <label>Current Status</label>
      <select>
        <option>Operational</option>
        <option>Under Maintenance</option>
        <option>Out of Order</option>
      </select>
    </div>
  </form>

  <button class="btn">Add Equipment</button>
```

```
<div class="equipment-grid">
  <div class="equipment-card">
    <h4>Treadmill #1</h4>
    <p><strong>Category:</strong> Cardio</p>
    <p><strong>Status:</strong> <span class="status active">Operational</span></p>
    <p><strong>Last Maintenance:</strong> Jan 15, 2024</p>
    <p><strong>Next Service:</strong> Apr 15, 2024</p>
  </div>
  <div class="equipment-card">
    <h4>Bench Press</h4>
    <p><strong>Category:</strong> Strength</p>
    <p><strong>Status:</strong> <span class="status active">Operational</span></p>
    <p><strong>Last Maintenance:</strong> Feb 1, 2024</p>
    <p><strong>Next Service:</strong> May 1, 2024</p>
  </div>
  <div class="equipment-card">
    <h4>Rowing Machine</h4>
    <p><strong>Category:</strong> Cardio</p>
    <p><strong>Status:</strong> <span class="status expired">Maintenance</span></p>
    <p><strong>Last Maintenance:</strong> Dec 20, 2023</p>
    <p><strong>Next Service:</strong> Overdue</p>
  </div>
</div>

<section id="classes" class="section">
  <h2>Class Schedule</h2>

  <form class="form-grid">
    <div class="form-group">
      <label>Class Name</label>
      <input type="text" placeholder="Enter class name">
    </div>
    <div class="form-group">
      <label>Instructor</label>
      <input type="text" placeholder="Enter instructor name">
    </div>
  </form>
</section>
```



Equipment Management

Equipment Name

Category

Purchase Date

Cardio



Warranty Period

Maintenance Schedule

Current Status

Weekly

Operational



Add Equipment

Treadmill #1

Category: Cardio

Status: Operational

Last Maintenance: Jan 15, 2024

Next Service: Apr 15, 2024

Bench Press

Category: Strength

Status: Operational

Last Maintenance: Feb 1, 2024

Next Service: May 1, 2024

Rowing Machine

Category: Cardio

Status: Maintenance

Last Maintenance: Dec 20, 2023

Next Service: Overdue

Login Page



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login/Signup Form</title>
    <link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css' rel='stylesheet'>
    <link rel="stylesheet" href="login.css">
</head>
<body>
    <video autoplay muted loop>
        <source src="clouds.mp4" type="video/mp4">
        Your browser does not support HTML5 video.
    </video>

    <div class="container">
        <div class="form-box login">
            <form id="loginForm">
                <h1>Login</h1>
                <div class="input-box">
                    <input type="text" id="username" placeholder="Username" required>
                    <i class='bx bxs-user'></i>
                </div>
                <div class="input-box">
                    <input type="password" id="password" placeholder="Password" required>
                    <i class='bx bxs-lock-alt'></i>
                </div>
                <div class="forgot-link">
                    <a href="#">Forgot Password?</a>
                </div>
                <button type="submit" class="btn">Login</button>
                <p>or login with social platforms</p>
                <div class="social-icons">
                    <a href="#"><i class='bx bxl-google'></i></a>
                    <a href="#"><i class='bx bxl-facebook'></i></a>
                    <a href="#"><i class='bx bxl-github'></i></a>
                    <a href="#"><i class='bx bxl-linkedin'></i></a>
                </div>
            </form>
        </div>
    </div>
```

What is react?

React (also called **React.js** or **ReactJS**) is a **JavaScript library** used to build **user interfaces (UIs)** — especially **single-page applications (SPAs)** where you need fast, dynamic updates on the screen without reloading the whole page.

A **frontend library** developed by **Facebook (now Meta)**.

Used to **build reusable UI components** — like buttons, forms, or cards — that you can use across your website or app.

Focuses mainly on the **View** layer of an application (in MVC architecture).

1. Component-Based Architecture

You break your UI into small, reusable components.

2. Virtual DOM (Fast Performance)

React updates only the parts of the page that change — not the whole page — making it very efficient.

3. Declarative Syntax

You describe **what** the UI should look like, and React handles **how** to render it.

4. JSX (JavaScript XML)

Allows you to write HTML-like syntax inside JavaScript.

Use of REACT

```
 SignUp_Login_Form.jsx > [x] LoginRegister
1 import React, { useState } from 'react';
2 import './LoginRegister.css';
3
4 const LoginRegister = () => {
5   const [isActive, setIsActive] = useState(false);
6   const [username, setUsername] = useState('');
7   const [password, setPassword] = useState('');
8
9   const handleLogin = (e) => {
10     e.preventDefault();
11     if (username === 'Fee_Project' && password === '6969') {
12       alert('Login successful!');
13       window.location.href = 'index.html';
14     } else {
15       alert('Invalid username or password!');
16     }
17   };
18
19   return (
20     <div className={`container ${isActive ? 'active' : ''}`}>
21       /* LOGIN FORM */
22       <div className="form login-form">
23         <h2>Login</h2>
24         <form onSubmit={handleLogin}>
25           <input
26             type="text"
27             placeholder="Username"
28             value={username}
29             onChange={(e) => setUsername(e.target.value)}
30             required
31           />
32           <input
33             type="password"
34             placeholder="Password"
35             value={password}
36             onChange={(e) => setPassword(e.target.value)}
37             required
38           />
39           <button type="submit">Login</button>
40           <p>
41             Don't have an account?{' '}
42             <span className="toggle" onClick={() => setIsActive(true)}>
43               | Register
44             </span>
45           </p>
46         </form>
47       </div>
48
49       /* REGISTER FORM */
50       <div className="form register-form">
51         <h2>Register</h2>
52         <form>
53           <input type="text" placeholder="New Username" required />
```



Hello, Welcome!

Don't have an account?

[Register](#)

Login

Username



Password



[Forgot Password?](#)

[Login](#)

or login with social platforms



Conclusion

conclusion

CHITKARA
UNIVERSITY



GymBuddy is a **smart and efficient Gym Management System** that **automates daily operations** like member registration, payments, attendance, and workout planning.

It improves **accuracy, saves time**, and provides a **better experience** for members, trainers, and admins.

With its **user-friendly interface** and **secure management**, Gym Buddy makes gym operations **simpler, faster, and more effective**.

References/Links used

- *"Amazon Empire: The Rise and Reign of Jeff Bezos". PBS. Archived from the original on January 16, 2020. Retrieved February 15, 2020^[1].*
- *Wienclaw, Ruth A. (2013). "B2B Business Models". Research Starters: Business. Archived from the original on 18 July 2013. Retrieved 4 May 2021.*
- *Khurana, Ajeet (25 November 2019). "Did You Know That There Are 4 Types of Ecommerce?". The Balance Small Business. Dotdash. Archived from the original on 22 January 2021. Retrieved 4 May 2021.*
- *"Pixabay home page". Pixabay.com. Archived from the original on 2019-01-30. Retrieved 2018-10-01.*
- [Link-https://pixabay.com/](https://pixabay.com/)
- *"Font Awesome v1.0.0". Github. 2 February 2022.*
- [Link-https://fontawesome.com/](https://fontawesome.com/)

T H A N K S !

