

# GYM MEMEBERSHIP AND CLASS BOOKING SYSTEM

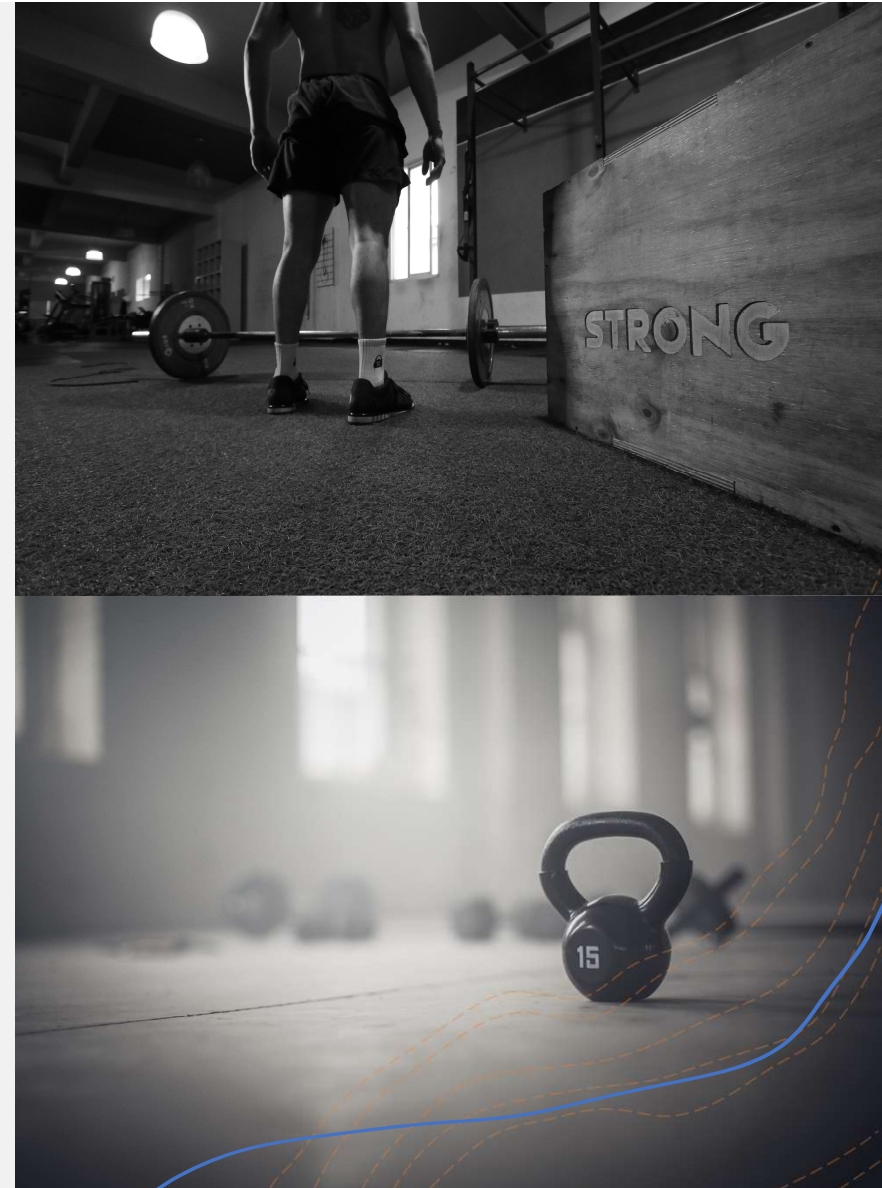
+ Team Name: TEAM OOPS

Team Members:

Mahesh Peta, Hari Naga Venkata Sai Posani,  
Prajwal Garla, Guru Saran Reddy Busireddy.

Instructor: Erik Fredericks

Date: 12/06/2024



# MEET OUR TEAM

## + Prajwal Garla

### + **Role:** Frontend Designer / Testing Lead

- Designed and developed the **user interface** of the website.
- Led **usability and performance testing**, ensuring smooth user experience across different devices and browsers.

## + Guru Saran Reddy Busireddy

### + **Role:** Database Designer & Backend Development

- Designed and implemented the **database schema** for efficient data storage and retrieval.
- Developed the **backend architecture**, integrating the system's core functionality with the database.

## + Mahesh Peta

### + **Role:** QA Testing & Backend Integration

- Ensured the **quality** of the product through **rigorous testing** and bug fixes.
- Integrated **backend services** to ensure seamless interaction between the frontend and database.

## + Hari Naga Venkata Sai Posani

### + **Role:** Payments & Notification Integration

- Integrated **payment systems** for membership renewals and class bookings, ensuring secure transactions.
- Managed **email notification services** for booking confirmations, class reminders, and payment updates.

# PROJECT OVERVIEW

## + Gym Membership and Class Booking System

- Our project is a **Gym Membership and Class Booking System** designed to make gym management easier for both users and administrators. The system allows users to **sign up**, **view available classes**, **book classes**, and **make payments** securely.
- Admins can manage **class schedules**, **view reports**, and handle all the **payments** to keep the gym running smoothly.

## + Main Features:

- **User Registration:** Allows users to sign up with personal details.
- **Class Booking:** Users can browse available classes and book them.
- **Payment Integration:** Secure payment gateway for class bookings and membership renewals.
- **Admin Dashboard:** Admins can manage class schedules, view reports, and process payments.

## + Technologies Used:

- **Django, Python**
- **HTML, CSS**
- **SQLite, PyCharm, AWS, ec2 , S3 buckets**



# DID WE HIT OUR PROJECT GOALS?

## Project Milestones:

### •Frontend Design:

- **Goal:** Complete the design of the user interface for the website.
- **Status:** Met.
  - *Description:* "The UI design was completed on schedule. We successfully implemented the homepage, class browsing page, and user profile page."

### •Backend Development:

- **Goal:** Build the backend systems, including database integration and user authentication.
- **Status:** Met.
  - *Description:* "We successfully developed the backend services required to support the core functionality (class booking, user management, etc.) without significant delays."

### •Testing & Deployment:

- **Goal:** Thoroughly test the system for bugs and deploy it to a hosting platform.
- **Status:** Delayed.
  - *Description:* "The testing phase took longer than expected due to troubleshooting issues related to the **payment system integration**. Although the majority of testing was completed, this caused delays in the deployment stage."

## Reflection on Delays:

### •Key Issues:

- The **payment system integration** had to be revisited multiple times to ensure it was secure and functioning as expected. This was essential to the overall system functionality but took longer than anticipated.

### •Solution:

- We allocated extra time in the final weeks of the project to complete the necessary testing and fixes for the payment system, ensuring a smooth final deployment.

# THINGS CHANGED AFTER MIDTERM



## + 1. Added Admin Dashboard:

- **New Feature:**
    - Introduced a centralized Admin Dashboard.
  - **Benefits:**
    - Allows gym managers to modify class schedules, manage memberships, and process payments in one place.
    - Improved usability for admins to handle gym operations more efficiently.
- ## + 3. Backend Optimizations:
- **Improvement:**
    - Optimized database queries and backend processes to enhance system performance.
  - **Benefits:**
    - Faster load times and improved performance, especially during peak times.

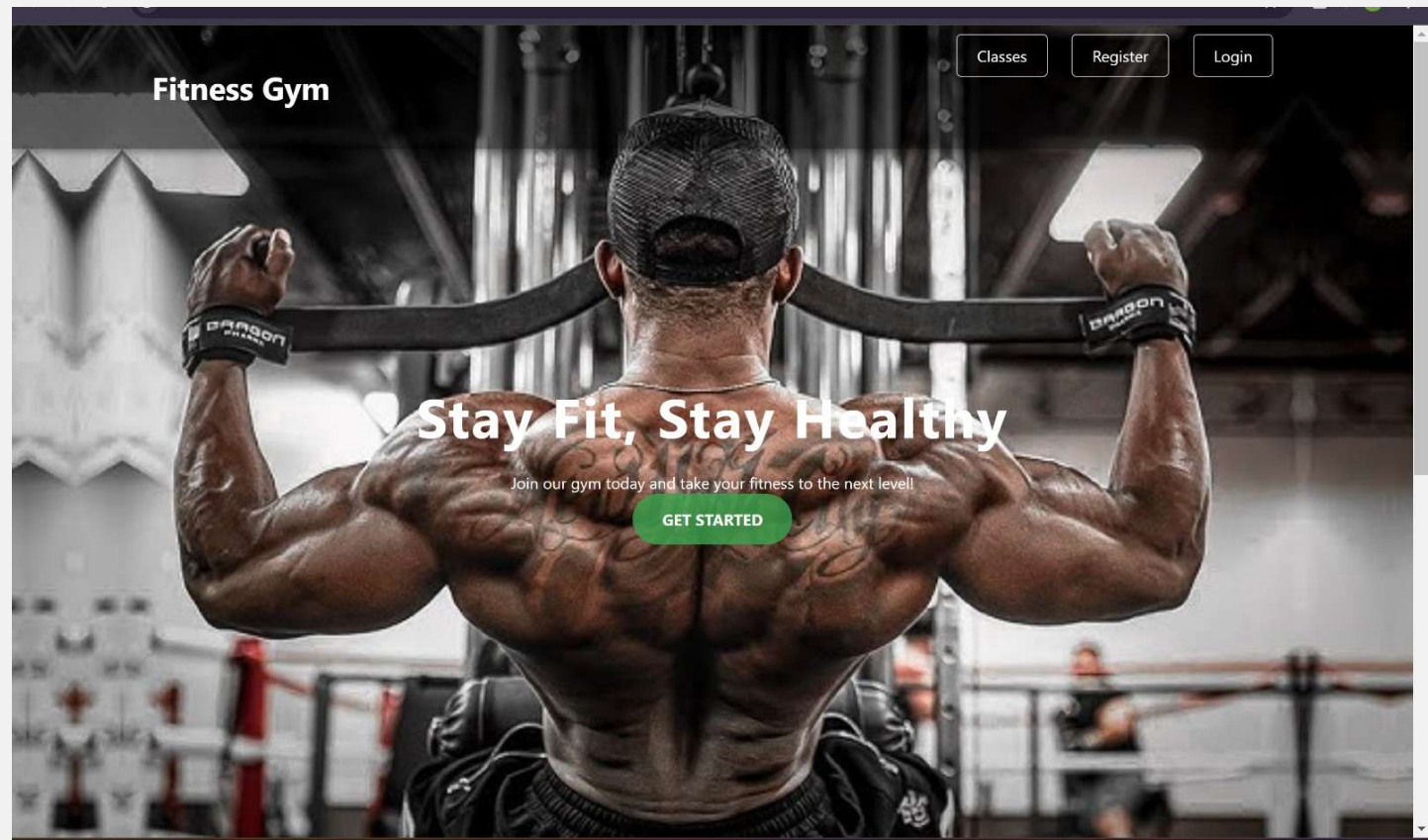
## + 2. UI Improvements:

- **Improvement:**
    - Streamlined the class booking process, simplifying class selection and improving responsiveness of website.
  - **Benefits:**
    - Enhanced user experience with a smoother, intuitive flow that reduces friction.
- ## + 4. Focused Payment Integration:
- **Improvement:**
    - Integrated **secure card payment transactions** as the primary payment method.
  - **Details:**
    - Initially considered adding **PayPal integration** but decided to focus solely on **card transactions** to simplify the implementation and better align with user needs.
  - **Benefits:**
    - Secure and streamlined payment system for membership renewals and class bookings.

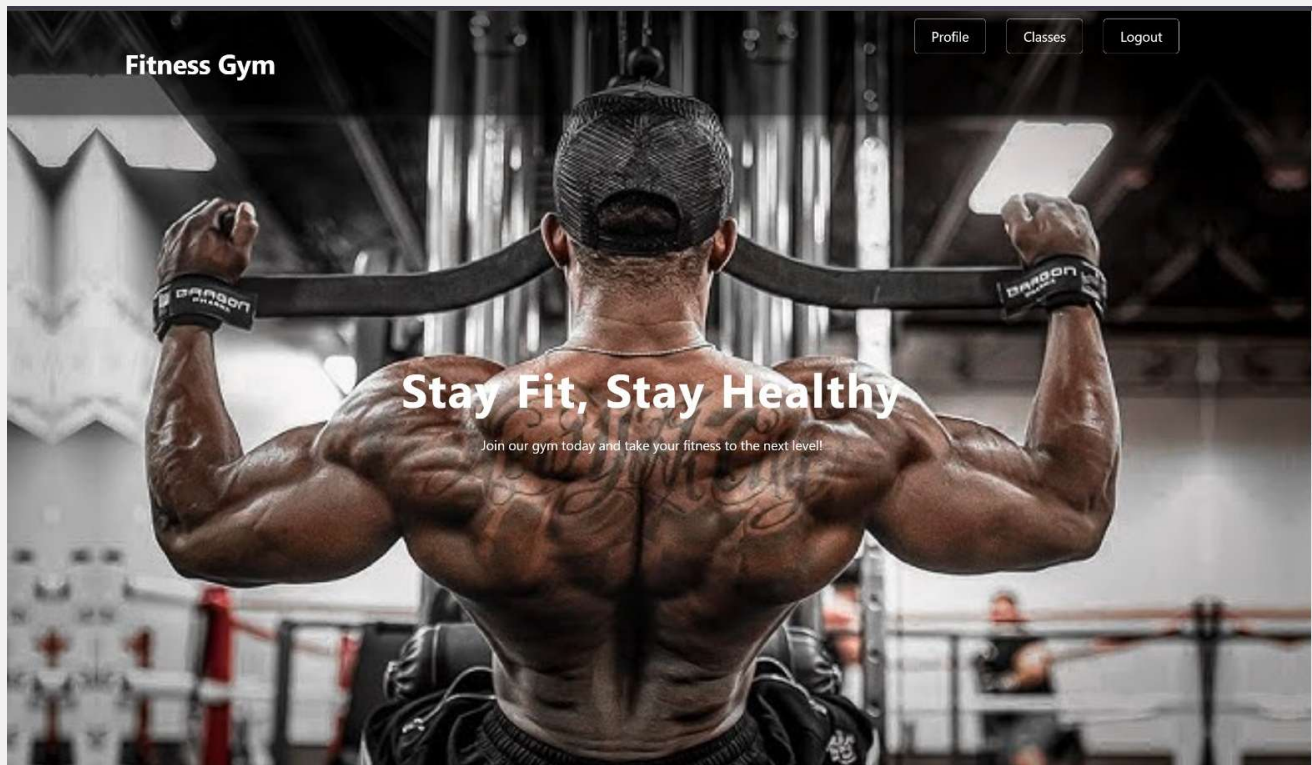


# FINAL IMPLEMENTATION

## HOME PAGE



# AFTER LOGIN



# SIGN-UP



## Register for Gym Membership

[Login](#) [Home](#)

### Register

**Username:**

Required. 150 characters or fewer. Letters, digits and @/./+/-/\_ only.

**Firstname:**

**Lastname:**

**Phone:**

**Email:**

**Password:**

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

**Password confirmation:**

Enter the same password as before, for verification.

Register



# LOGIN

© 2024 Gym Membership and Class Booking System

5:35 PM  
12/6/2024

# USER PROFILE

Fitness Gym

[Profile](#) [Classes](#) [Logout](#)

## User Profile

Update Profile

**Name:** Prajwal Garla

**Phone:** 6163155763

**Address:** 252, Manzana CT NW, APT 1B

**Height:** 198.00

**Weight:** 198.00

**Membership:** gold

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# CLASS BOOKING

[Home](#) [Classes](#) [Logout](#)

## Classes

### All Gym Classes

Class Name	Instructor	Start Time	End Time	Max Capacity	Created At	Price	Actions
Yoga	SARA ALLISON	2024-12-10 18:00	2024-12-10 19:00	20	2024-12-04 16:27	20.00	<a href="#">Proceed to Payment</a>
HITT	BROCK TENSION	2024-12-13 06:00	2024-12-13 12:00	30	2024-12-04 16:28	20.00	<a href="#">Proceed to Payment</a>
Yoga	SARA ALLISON	2024-12-13 18:00	2024-12-13 19:00	30	2024-12-04 16:28	20.00	<a href="#">Proceed to Payment</a>

# PAYMENT PAGE

## Fitness Gym

[Home](#)[Classes](#)[Logout](#)

Class Name: Yoga  
Instructor: SARA ALLISON  
Start Time: 2024-12-10 18:00  
End Time: 2024-12-10 19:00

Card Number

Cardholder Name

Expiration Date



CVV

Billing Address

City

Zip Code

Submit Payment

# BOOKING CONFIRMATION

Fitness Gym

[Home](#)

[Classes](#)

[Logout](#)

## Booking Confirmed!

Class: Yoga

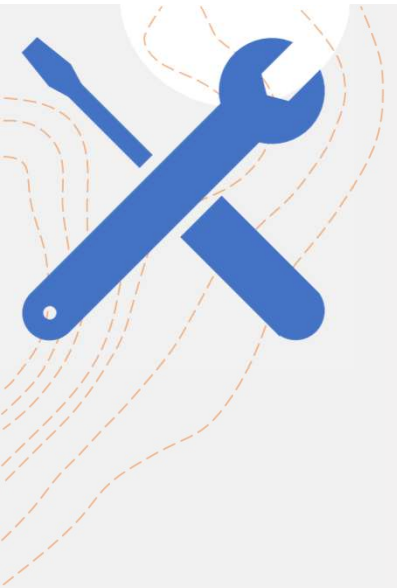
Instructor: SARA ALLISON

Status: Confirmed

Amount Paid: 20.00

[Back to Home](#)





# HOW TO INSTALL/DEPLOY OUR PROJECT?

- Prerequisites:** Install Python (3.x), Git, and Django (pip install django).

- Clone the Project:**

```
bash
```

```
git clone https://github.com/Prajwal148/OOPS.git
```

- Set Up Virtual Environment:**

```
bash
```

```
python -m venv venv source venv/bin/activate # For Linux/Mac
```

```
venv\Scripts\activate # For Windows
```

- Install Dependencies:**

```
bash
```

```
pip install -r requirements.txt
```

- Set Up the Database:**

```
bash
```

```
python manage.py migrate python manage.py createsuperuser
```

- Run the Server:**

```
bash
```

```
python manage.py runserver
```

THANK YOU

