

GOVERNMENT POLYTECHNIC JALGAON



DEPARTMENT OF INFORMATION TECHNOLOGY

Course: - Industrial Training (22057)

Submitted by

Roll No.	Name
33	Mohit Pramod Mahajan

Mentor

Mrs. S. A. Sarwade

(Lecturer in IT)

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

GOVERNMENT POLYTECHNIC, JALGAON (0018)

Program Name and Code : Information Technology (IF5I)

Course Name and Code : Industrial Training (22057)

Academic Year : 2024-25

Semester : Fifth

Industrial Training Report

Submitted by

Sr.No.	Roll No.	Name of student	Enrollment No.
1	33	Mohit Pramod Mahajan	2200180369



MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

Certificate

This is to certify that **Mohit Pramod Mahajan**, Roll No. **33** of **5th** Semester Diploma in **Information Technology** of Institute, **Government Polytechnic, Jalgaon** (Code:0018) has completed the **Industrial Training (22057)** satisfactorily for the Academic Year **2024-2025** as prescribed in the curriculum.

Place: Jalgaon

Enrollment No: 2200180369

Date:

Exam Seat No:

Mrs. S.A.Sarwade

Mr. H.K.Nemade

Dr.P.M.Patil

Mentor

Head of the Department

Principal



GOVERNMENT POLYTECHNIC JALGAON



-SUBMISSION-

I, **Mohit Pramod Mahajan** Roll no. **33** as a student of **5th** Semester of the Programme **Information Technology** humbly submit that I completed from time to time **Industrial Training Report** work as described in this report by my own skills and study in academic year **2024-2025** as per instructions/guidance of **Mrs. S.A.Sarwade**. I not copied the report on its any appreciable part from any other literature in contravention of the academic ethics.

Date:

Signature of Student

Abstract

Industrial training course is introduced to all diploma programs with an objective to develop the traits of industry culture among the students before they enter into world of industry. By exposing and interacting with the real-life industrial setting, student will appreciate and understand the actual working of an industry, best practices adopted in industry.

Career paths focus on job role-based training aligned to the market demand. Students can access a number of different career offerings and select the one that supports their career goal most effectively.

Through the blended learning approach, students can learn at their own pace that best suits their individual learning style. The experience allows for users to interact with content using classroom-based environment.

Acknowledgement

This Industrial Training would not have been possible without considerable guidance and support. So, I would like to acknowledge those who have enabled me to complete this Report.

Firstly I would like to thank my Mentor **Mrs. S.A.Sarwade, Head of IT Department Mr. H.K.Nemade** for providing guidelines with continuous advice and feedback throughout the duration of finishing this Training. I also thank to the **Principal of Government Polytechnic Jalgaon** for providing me the opportunity to embark Industrial Training.

Secondly I would like to thank all other staff members of **IT department** that I may called upon for assistance since the genesis of this Industrial Training.

Also not to be forgotten, I would like to thank all my friends with the report valuable opinion and sharing ideas during the process of this Industrial Training.

Finally I would like to thank my family for their understanding, encouragement and support towards the completion of Industrial Training.

Thank so much...

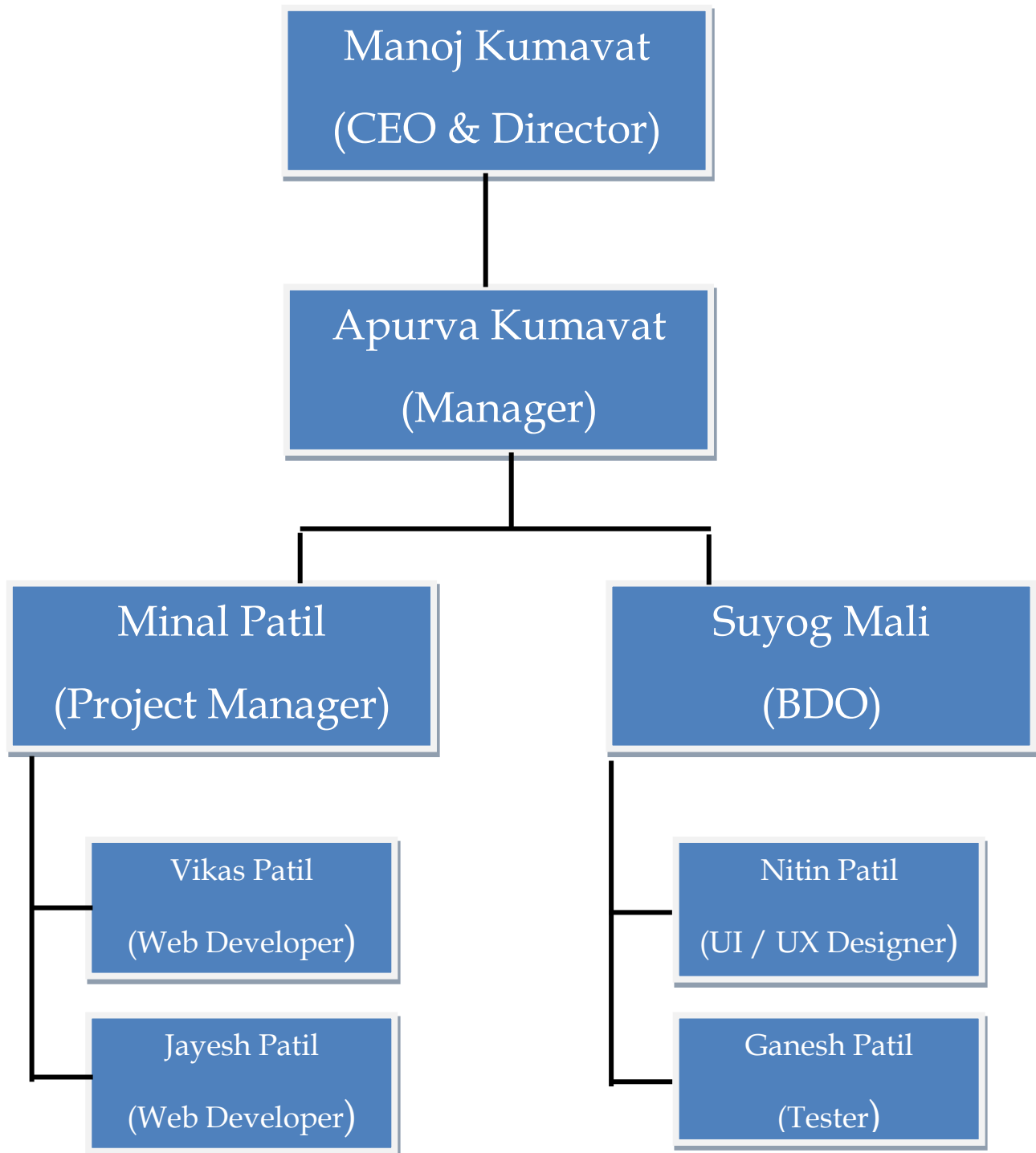
INDEX

<u>Sr No.</u>	<u>Contents</u>	<u>Page No.</u>
1	Organizational Structure of Industry	1
2	Introduction of Industry	2
3	Major Equipment's Used in Industry	5
4	Manufacturing processes	8
5	Product Testing and Quality Assurance	10
6	Safety And Maintenance	11
7	Practical Experience in Industry	12
8	Description of project with Output	13
9	Conclusion	18
10	References	19
11	Weekly Progress Report	20
12	Industrial Training Certificate	27

Chapter No.1

Organizational Structure of Industry

● Organizational Structure ●



Chapter No.2

Introduction of Industry



Passion Software

S O L U T I O N S

THE INSTITUTE OF SOFTWARE
DEVELOPMENT TRAINING CENTER, JALGAON

Passion software solution established in 2020 to develop the web and software development company IT consultancy development center in Jalgaon in Maharashtra.

We are team of enthusiast team of Designer, Developer & Digital Marketers we are passionate about bringing dreams into reality, achieving new goals everyday towards rapidly changing and growing world with technology.

We constantly thriving in this competitive world for bringing best solution for our customer. We constantly make new strategy & find ways for our customer to help them stand out in this competitive era.

Our services

Ui & Ux Design

With the help of Ui & Ux we build aesthetically interactive websites that attract premium clients.

Web Design & Development

We build mobile friendly websites that converts and easy to rank on search engines.

Digital Marketing

Boost your brand awareness with our digital marketing services. we provide wide range of digital marketing services.

SEO

Website is a sales tool for your business. ranking high on Google build your reputation in customers mind.

Explore The Services We Offer For You

We provide wide range of solutions from building your identity to showcase your business to your audience. We offer services include

- Website Development
- Mobile Application
- Digital Marketing
 - Social Media Marketing(any platform)
 - Social Media Management
 - Search Engine Optimization(SEO)
 - Search Engine Marketing(SEM)
 - Google Adword

Organizations Objectives

Custom Web Design

Custom web design is much more than the color scheme, images, and fonts of your website. A custom web design is the process of learning and understanding about your business, and applying a sound process of strategy, user experience, design execution, programming, and marketing to form a successful online business presence. Every aspect of your website is built specifically for your organizational goals. We believe this service is the most important in creating an effective digital asset with a highly positive ROI.

Backend Development

By now you should guess right, who a Backend developer is, is based on what Backend development is all about.

A Backend Developer is a skilled software developer responsible for or skilled enough to understand, plan, develop and test the server-side/business logic of an application. In conjunction with other team members, he is responsible for deciding the best and suitable tools and technologies for the project at hand.

Strong skill sets

- Positive attitude. Being calm and cheerful when things go wrong.
- Communication. You can listen and say information clearly when you speak or write.
- Teamwork. ...
- Self-management. ...
- Willingness to learn. ...
- Thinking skills (problem solving and decision making) ...
- Resilience.

Chapter No.3

Major Equipment's Used in Industry

Types of Equipment Used in Industry

Machines Used in the Industry :-

1. Dell Desktop: - There are 13 Dell Computers in the company.

Configuration:- Operating System Windows

Processor Intel Core i5 Storage 500GB HDD

Memory 8GB RAM Price Rs. 40,000(per)



2. Server Racks :- Price Rs. 2,5

Brand : APC

Model :NetShelter

Mounting Type: Wall Mount

Length : 800mm

Width : 1.06

Depth :2.057m



3. Switch :- Processor Count 1

Wireless Type 802.11ac Wattage 384

Price Rs. 30,000



4. Ethernet Cables :-

Max Transmission Speed 1000MBS/1GBPS Max Bandwidth >250MHz

Price Rs. 3,500(305 M)



5. Router :-

Speed 300Mbps Price Rs. 1,000



Software Used in the Industry :-

1. Visual Studio Code : VS Code is widely used for web development, scripting, and working with various programming languages, including JavaScript, Python, C++, and many more. Its flexibility and rich ecosystem make it suitable for both individual developers and teams.



2. Sublime Text : Sublime Text is used for a variety of coding and text editing tasks, including web development, scripting, and general text manipulation. Its focus on speed and efficiency makes it a favorite among developers who value a streamlined, responsive editor.



Chapter No.4

Manufacturing processes

1. Requirements Gathering and Analysis

- **Requirements Elicitation:** Collecting and defining user needs and system requirements.
- **Requirements Analysis:** Assessing the feasibility, defining specifications, and creating detailed documentation.

2. Design and Architecture

- **System Design:** Crafting the overall architecture, including software components, data structures, and interactions.
- **UI/UX Design:** Designing user interfaces and user experiences to ensure usability and satisfaction.
- **Prototyping:** Building preliminary models to validate design concepts and gather feedback.

3. Development

- **Coding:** Writing the actual code for the software based on design specifications.
- **Version Control:** Managing changes to the codebase using systems like Git to track revisions and facilitate collaboration.

4. Testing

- **Unit Testing:** Testing individual components for correctness.
- **Integration Testing:** Ensuring that different modules or systems work together as intended.
- **System Testing:** Evaluating the complete system to ensure it meets the specified requirements.
- **User Acceptance Testing (UAT):** Validating the software with end users to confirm it meets their needs and expectations.

5. Deployment

- **Continuous Integration/Continuous Deployment(CI/CD):** Automating the process of integrating code changes and deploying them to production environments.
- **Release Management:** Planning and executing the deployment of new features or updates to users.

6. Maintenance

- **Bug Fixes:** Addressing and resolving issues identified after deployment.
- **Performance Tuning:** Optimizing software to improve performance and efficiency.
- **Updates and Enhancements:** Releasing new features or improvements based on user feedback and evolving needs.

7. Documentation

- **Technical Documentation:** Creating and maintaining documentation for development processes, APIs, and system architecture.
- **User Documentation:** Providing manuals, help guides, and FAQs for end users.

8. Project Management

- **Planning and Scheduling:** Defining project scope, timelines, and resources required.
- **Tracking and Reporting:** Monitoring progress, managing risks, and ensuring adherence to project goals and deadlines.

Chapter No.5

Product Testing and Quality Assurance

Product Testing :

Product testing involves evaluating the software to identify defects, bugs, or any issues that could affect its performance, security, or user experience. There are various types of testing:

- **Unit Testing:** Tests individual components or pieces of code for correctness.
- **Integration Testing:** Ensures that different modules or services work together.
- **System Testing:** Tests the entire system to ensure it meets the specified requirements.
- **Acceptance Testing:** Validates the software against business requirements, often involving end-users.
- **Performance Testing:** Assesses the software's speed, responsiveness, and stability under load.
- **Security Testing:** Identifies vulnerabilities and ensures that data is protected from unauthorized access.
-

Quality Assurance (QA) :

- **Process Definition:** Establishing standards and procedures for software development.
- **Review and Inspection:** Regularly checking code, design documents, and other artifacts for adherence to standards.
- **Test Planning:** Designing a comprehensive testing strategy to cover all aspects of the software.
- **Continuous Integration (CI):** Automatically integrating and testing code changes to catch issues early.
- **Defect Tracking:** Logging and managing bugs or issues found during testing.

Chapter No.6

Safety and Maintenance

Safety :

- **Security Practices:** Implementing robust security measures like encryption, access controls, and secure coding practices to protect software from cyber threats.
- **Data Protection:** Ensuring compliance with data privacy regulations (e.g., GDPR) and protecting user data from breaches.
- **Code Reviews:** Conducting regular peer reviews to identify and mitigate potential vulnerabilities in the code.
- **Backup and Recovery:** Regularly backing up data and having disaster recovery plans to restore operations in case of failures.

Maintenance :

- **Bug Fixes:** Regularly identifying and fixing defects or issues that arise in the software post-deployment.
- **Updates and Patches:** Releasing updates to improve performance, add new features, or address security vulnerabilities.
- **Performance Monitoring:** Continuously monitoring the software's performance to identify and resolve bottlenecks or inefficiencies.
- **Technical Debt Management:** Regularly refactoring code to maintain quality and prevent the accumulation of technical debt that can hinder future development.

Chapter No.7

Practical Experience in Industry

The purpose of Industrial Training is to provide exposure for the students on practical statistical fields and exposure to real working environment. Throughout these Exposure, students will have better understanding of real working environment and apply the knowledge of statistical, computing and operation research in the particular field. Industrial Training is a part of the learning process, therefore the exposure uplifts the knowledge and experience of a student needs to be properly documented in the form of a report.

Our Industrial training Started on 3rd June 2024 and end in completed 6 weeks. In this Training I learn Python Programming Language from basic to advance. For this training, I choose Passion Software Solution Company for Industrial training. Our mentor every day provide Video Lecture on Google classroom. All collected information and knowledge from industry I write on Weekly Diary. This training was very knowledgeable for me because I learn new concepts in Industrial Training.

Due to the Online mode, I faced many challenges and problem for completion of Industrial Training. I got the knowledge but not got the practical knowledge of company. Not Communication with company Employees due to online mode.

Chapter No.8

Description of Project with Output

Project Title :- GYM Management System

Overview

The Gym Management System is a web application developed using the Django framework. This system aims to streamline the management of gym operations, including member registrations, equipment tracking, plan management, and enquiry handling. It provides a user-friendly interface for gym administrators and staff to manage daily tasks efficiently and effectively.

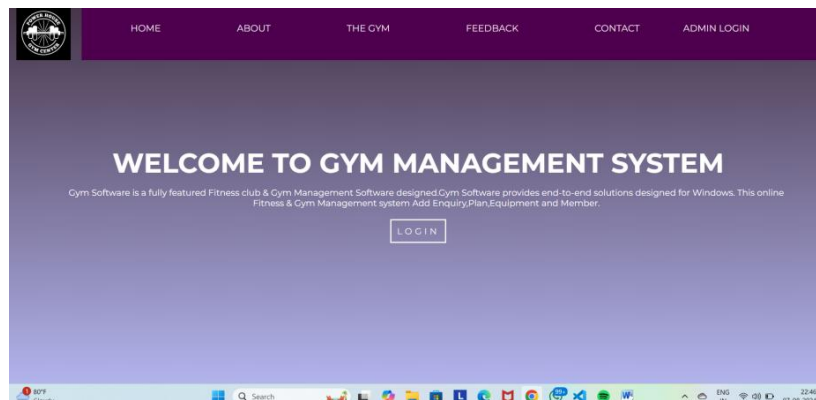
Key features of this project include :

- Membership management: Add, edit, and delete member information.
- Equipment tracking: Maintain an inventory of gym equipment, including Status and maintenance schedules.
- Staff management: Handle staff details and roles within the gym.
- Enquiry management: Manage enquiries from potential members and respond Efficiently.
- Plan management: Create and manage different membership plans.

1. Home Page:

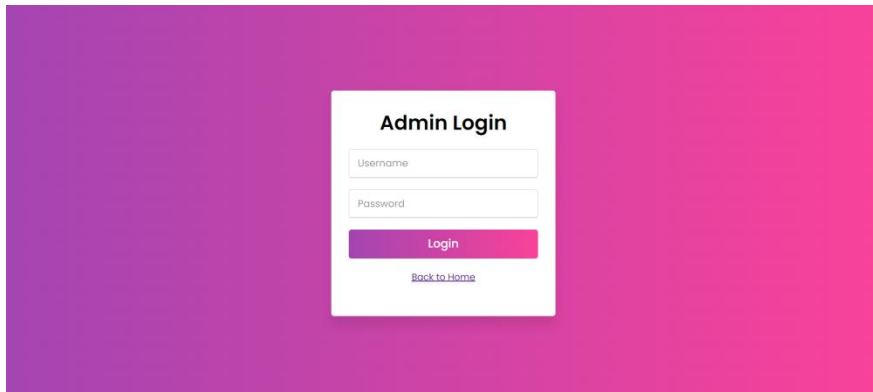
Overview of the gym's offerings and a welcome message.

Quick links to login, membership plans, and contact information.



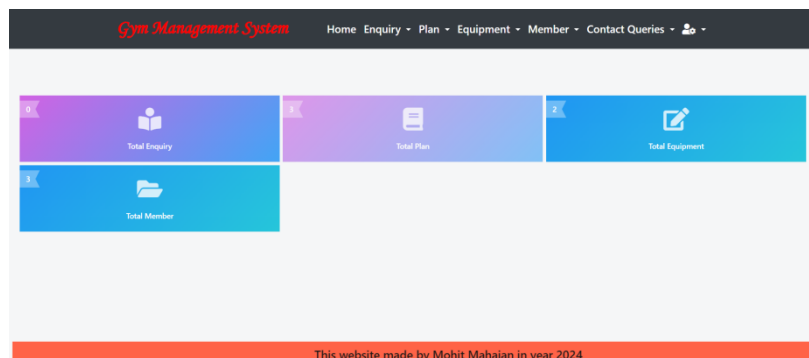
2. Admin Login:

Secure login page for gym administrators.

A screenshot of the Admin Login page. It features a white login box centered on a purple-to-pink gradient background. The box is titled "Admin Login" and contains two input fields: "Username" and "Password". Below these fields is a purple "Login" button. At the bottom of the box is a link that says "Back to Home".

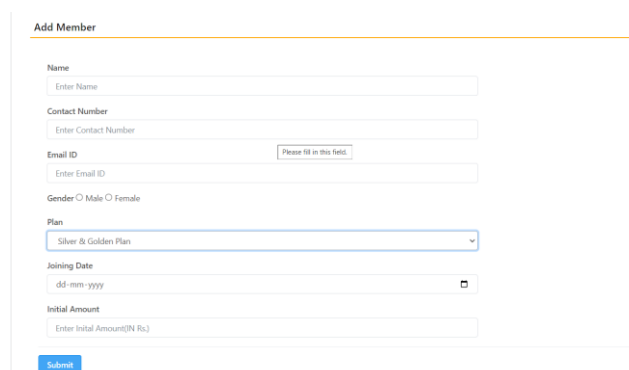
3. Admin Home:

Dashboard providing a summary of gym operations, including member count, equipment status, and upcoming maintenance.

A screenshot of the Admin Home dashboard. At the top is a dark navigation bar with the text "Gym Management System" in red and a menu: "Home", "Enquiry", "Plan", "Equipment", "Member", "Contact Queries", and a user icon. Below the navigation bar are four colored cards: "Total Enquiry" (purple), "Total Plan" (light blue), "Total Equipment" (teal), and "Total Member" (blue). Each card has a small icon and a number in the top left corner. At the bottom of the dashboard is a red footer bar with the text "This website made by Mohit Mahajan in year 2024".

4. Add Member:

Form to add new gym members, capturing personal details, membership plans, and payment information.

A screenshot of the "Add Member" form. The form is titled "Add Member" and has a yellow underline. It contains several input fields: "Name" (with a placeholder "Enter Name"), "Contact Number" (with a placeholder "Enter Contact Number"), "Email ID" (with a placeholder "Enter Email ID" and a small "Please fill in this field" message), "Gender" (with radio buttons for "Male" and "Female"), "Plan" (a dropdown menu showing "Silver & Golden Plan"), "Joining Date" (a date picker with a placeholder "dd-mm-yyyy"), and "Initial Amount" (with a placeholder "Enter Initial Amount(Rs.)"). At the bottom of the form is a blue "Submit" button.

5. View Member:

Interface to Edit and Delete existing member information.

View Member

S.NO	NAME	CONTACT_NO.	EMAIL ID	GENDER	PLAN	JOINING_DATE	INITIAL_AMOUNT	ACTION
1	Ketan Yadav Rane	9405475944	ketan06@gmail.com	Male	Golden Plan	Aug. 1, 2024	2000	Edit Delete
2	Akshay Jitendra Nemade	7276887734	akshay05@gmail.com	Male	Silver Plan	Aug. 2, 2024	6500	Edit Delete
3	Nayan Yashwant Dhande	7666437245	nayan05@gmail.com	Male	Silver & Golden Plan	Aug. 4, 2024	8000	Edit Delete

6. Add Equipment:

Form to add new equipment to the gym's inventory, including details like equipment type, purchase date, and maintenance schedule.

Add Equipment

Equipment Name

Price

Unit

Purchase Date

Description

Submit

7. View Equipment:

Interface to Edit and Delete equipment details.

View Equipment

S.NO	EQUIPMENT NAME	PRICE	UNIT	PURCHASE DATE	DESCRIPTION	ACTION
1	Treadmill	5500	2	Dec. 15, 2021	All treadmill are good service.	Edit Delete
2	Dambol	500	1	Dec. 20, 2021	I want to quicky purchase this items.	Edit Delete

8. Add Plan:

Form to create new membership plans with details like duration, cost, and benefits.

Add Plan

Plan Name

Enter Plan Name

Amount

Enter Amount(In RS.)

Duration

Enter Duration (In Month)

Submit

9. View Plan:

Interface to Edit and Delete existing membership plans.


View Plan

S.NO	PLAN NAME	AMOUNT	DURATION (IN MONTH)	ACTION
1	Golden Plan	2000	3	Edit Delete
2	Silver Plan	6500	3	Edit Delete
3	Silver & Golden Plan	8000	3	Edit Delete


10. Contact:

Page for visitors to submit enquiries or contact the gym for more information.

Contact Us

 Find Us at the office

123 Sweet Home
Bhushan Colony, Ramanand Nagar
Jalgaon(MH19)

 Give Us a Ring

Mohit Mahajan
+91 7709803929
Jalgaon(MH19)

Full Name

Full Name

Contact Number

Contact Number

Email Id

Email ID

Subject

Enter Subject

Message

Message....

Send

Back to Home

Django Apps:

GYM : This is the core app containing the main functionalities of the system, including models, views, templates, and static files.

Templates : HTML templates for various pages such as adding and editing members, equipment, plans, and enquiries. Templates for the administrative dashboard, login page, and other user interfaces.

Static Files : JavaScript and CSS files used for front-end functionalities and styling. Images and other static assets used in the application.

Database : Models defining the database schema for members, equipment, plans, and enquiries. Migrations to handle database schema changes over time.

Project Conclusion : The Gym Management System is a comprehensive solution designed to automate and simplify the administrative tasks of running a gym. By leveraging the Django framework, the system ensures robustness, security, and scalability. The intuitive interface and organized structure make it easy for gym staff to manage daily operations and provide better service to their members.

Conclusion

After all combined, I had immense experience learning at Passion Software Solution, especially because all of the guidance I received from the industry supervisor, our mentor and class teacher and all college staff including my friends who were assigned for Training in the same company.

Everything left a big impact on my skills in general, even if training was only for six weeks, it taught me a lot than I have expected before. From being able to have help enough to acknowledge something that was unclear or unsolved, having not just technical but also social support was absolutely memorable.

Learning the development and designing of the web pages using front end to back end languages was one point, but the helpful environment adds up the enhancement in the quality of total experience I've had. The interactions between us and teacher here was the most important thing that carried us out throughout this period.

I learned and acknowledged through a gradual process from slower and harder to faster and easier because of the guidance we had, I will be always thankful.

References

- ❖ <https://python.org>
- ❖ <https://www.sublimetext.com>
- ❖ <https://www.w3schools.com>
- ❖ <https://www.geeksforgeeks.org>
- ❖ <https://www.tutorialspoint.com>
- ❖ <https://www.javatpoint.com>
- ❖ <https://getbootstrap.com>

Weekly Progress Report

For

Industrial Training

Name of industry: Passion Software Solution

Date of Joining Training: 03/06/2024

Name of Mentor: Mrs. Smita Sarwade

Designation of Mentor: Lecturer in IT

Name of the Student: Mohit Pramod Mahajan

Enrollment No: 2200180369

Branch of Engineering: Information Technology

Name of College: Government Polytechnic, Jalgaon

Week 1 : 03/06/2024 To 08/06/2024

Day	Activities Carried Out
1	First day of my industrial training, I got information and some overview about the Industrial Training.
2	Introduction to HTML - Introduction, installation, html structure, types of tags, lists and its programs
3	HTML Programming - Create Table, merge multiple columns/rows, display Image
4	HTML Programming - Hyperlink tag, attributes, subscript and superscript
5	HTML Programming - Form tag & its attributes, creating form, login window
6	HTML using CSS CSS introduction, types of style sheet, Background image display using css

Signature of student

Signature of Industrial Supervisor

Week 2 : 10/06/2024 To 15/06/2024

Day	Activities Carried Out
1	HTML using CSS - Colors, borders and types, margin and opacity
2	HTML using CSS - Create login window and navigation bar using CSS
3	HTML using CSS - Extra Practice
4	Introduction to Python - Introduction, need and uses of python, installation and running steps
5	Python Programming - Datatypes, variable declarations
6	Python Programming - Input from user, variable value assign in different types, simple mathematics Programs

Signature of student

Signature of Industrial Supervisor

Week 3 : 17/06/2024 To 22/06/2024

Day	Activities Carried Out
1	Python Programming - Casting functions, programs using if-else syntax, loop control structure and its types
2	Python Programming - Array/lists, set, data dictionary, function and types
3	Python Programming - User defined functions, classes and objects, inheritance, exception handling
4	Introduction to Django Framework - Introduction, information, history, pattern, installation
5	Django Framework - Creating, running & closing a project
6	Django Framework - Displaying message and running HTML program.

Signature of student

Signature of Industrial Supervisor

Week 4 : 24/06/2024 To 29/06/2024

Day	Activities Carried Out
1	Django Framework - Displaying image, data dictionary
2	Django Practice - Displaying text, extra practice
3	Django Framework - Creating addition window and displaying results
4	Django Framework - Creating one page using multiple files, admin panel and create superuser
5	Django Task - Creating form and connecting with Django
6	Django Framework - Django model (app), database

Signature of student

Signature of Industrial Supervisor

Week 5 : 01/07/2024 To 06/07/2024

Day	Activities Carried Out
1	Django Framework - Displaying results from sign up page
2	Django Practice - How to delete a record, extra practice
3	Django Practice - Extra Practice
4	Django Framework - Updating submitted records
5	Introduction to Bootstrap - Introduction, history buttons and its types
6	Designing using Bootstrap - Texts & setting background color, container and displaying image

Signature of student

Signature of Industrial Supervisor

Week 6 : 08/07/2024 To 13/07/2024

Day	Activities Carried Out
1	Designing using Bootstrap - Grids, division with breakpoints, form using breakpoints
2	Bootstrap Task - Updatable and Deletable records in form
3	Introduction to jQuery - Introduction, history and use of jQuery
4	jQuery Programming - Button event, using button class through call
5	jQuery Programming - Mouse enter and leave, double click Event
6	jQuery Programming - On click event, ajax crud operation

Signature of student

Signature of Industrial Supervisor

Industrial Training Certificate

