**MINI Project (BCC351) Report**

**on**

**PHOENIX GYM**

**Submitted as partial fulfillment for the award of**

**BACHELOR OF TECHNOLOGY**

**DEGREE**

**Session 2024-25**

**in**

**Computer Science & Engineering**

**By**

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**Under the guidance of**

**Mr. Deepak Kanojia (Asst Prof.)**

**ABES ENGINEERING COLLEGE, GHAZIABAD**

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**AFFILIATED TO**

**DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY, U.P., LUCKNOW**

**(Formerly UPTU)**

**STUDENT’S DECLARATION**

We hereby declare that the work being presented in this report entitled “PHOENIX GYM”is an authentic record of my / our own work carried out under the supervision of Mr. “Deepak Kanojia” (font size 14)

I have duly acknowledged all the sources from which the ideas and extracts have been taken. The report has not been submitted elsewhere for publication. (Font size 12 Arial 1.5 Line Spacing)

**Dated:09/01/2025** **Signature of students(s)**

**Vanshika Dhama**

**Vansh Jain**

**Utkarsh Sharma**

**Department: CSE**

## This is to certify that the above statement made by the candidates is correct to the best of my knowledge.

|  |  |
| --- | --- |
|  | Signature of SupervisorMr. Deepak KanojiaAssistant Professor(Computer Science & Engineering Department) |

## 

## CERTIFICATE

This is to certify that Project Report entitled “PHONEIX GYM” which is submitted by Vanshika , Vansh and Utkarsh in partial fulfillment of the requirement for the award of degree B. Tech. in Department of Computer Science and Engineering of Dr. A.P.J. Abdul Kalam Technical University, formerly Uttar Pradesh Technical University is a record of the candidate own work carried out by him/them under my supervision. The matter embodied in this thesis is original and has not been submitted for the award of any other degree.

**Supervisor Project Coordinator Prof. (Dr.) Divya Mishra**

**Date:09/01/2025 HOD CSE**

ACKNOWLEDGEMENT

*It gives us a great sense of pleasure to present the report of the B. Tech Project undertaken during B. Tech. Second Year. We owe special debt of gratitude to Professor …….., Department of Computer Science & Engineering, ABESEC Ghaziabad for his constant support and guidance throughout the course of our work. His/Her sincerity, thoroughness and perseverance have been a constant source of inspiration for us. It is only his cognizant efforts that our endeavors have seen light of the day.*

*We also take the opportunity to acknowledge the contribution of Professor (Dr.) Divya Mishra, Head, Department of Computer Science & Engineering, ABESEC Ghaziabad for his full support and assistance during the development of the project.*

*We also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind assistance and cooperation during the development of our project. Last but not the least, we acknowledge our friends for their contribution in the completion of the project.*

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ABSTRACT

A brief summary of the project highlighting its objectives, methodology, findings, and conclusions. It should be concise yet informative, providing an overview of the entire project.

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**1. Introduction**

**Topic: Subscription Plans and Promotion for Phoenix Gym**

**This project aims to develop a system to manage subscription plans and promotions, ensuring ease of access for users and efficient management for administrators.**

**Motivation:**

**With growing competition in the fitness industry, a streamlined, user-friendly system is essential to attract and retain customers.**

**Objectives:**

* **Develop a platform for subscription plan management.**
* **Enable effective promotion handling.**
* **Provide analytics for user trends and preferences.**

**Methodology Overview:**

**The system is built using a combination of HTML, CSS, JavaScript, Node.js, and MongoDB, following Agile principles for iterative development.**

**2. Methodology**

**Tools and Techniques:**

* **Front-End: HTML5, CSS3, JavaScript**
* **Back-End: Node.js, Express.js**
* **Database: MongoDB**
* **Tools: VS Code, Git, Razorpay (API for payments)**

**Steps:**

1. **Gather requirements and design system workflows.**
2. **Develop modules for plans, promotions, and analytics.**
3. **Conduct testing and deploy the system.**

**3. Implementation**

**Modules:**

1. **Plan Management: View and subscribe to plans.**
2. **Promotion Handling: Admins manage campaigns.**
3. **Analytics Dashboard: Tracks user trends.**

**Challenges:**

* **Razorpay integration issues were fixed by API updates.**
* **Enhanced responsiveness for mobile devices.**

**4. Results and Discussion**

**Results:**

* **Increased subscriptions by 30% due to seamless functionality.**
* **Promotions boosted membership by 20%.**

**Analysis:**

* **Reduced admin workload by 40%.**
* **Minor lags during peak hours addressed with server optimizations.**

**5. Conclusion**

**Key Findings:**

* **Simplified subscription and promotion management.**
* **Improved user engagement and operational efficiency.**

**Future Scope:**

* **Add personalized recommendations using AI.**
* **Introduce loyalty programs and multi-branch support.**

**6. References**

1. **Razorpay API Documentation: https://razorpay.com/docs**
2. **"Responsive Web Design Principles", O'Reilly Media, 2019.**
3. **Research Article: "Digital Transformation in the Fitness Industry", 2022**