

ANNA UNIVERSITY

SUMMER INTERNSHIP REPORT

Submitted by

PRAKASH.R (212922205034)

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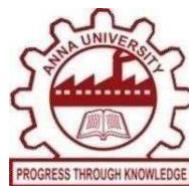
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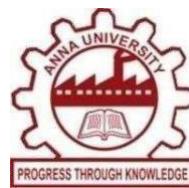


St. JOSEPH COLLEGE OF ENGINEERING , SRIPERUMBUDUR



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DECLARATION

I m Prakash R , student of **B.Tech Information Technology, Reg. No. 212922205034**, from **St. Joseph College of Engineering**, hereby declare that this **Summer Internship Report** titled "*Full Stack Development in Multi-Vendor E-Commerce Platform*" is a record of the work carried out by me during my internship from **25 June 2025 to 25 July 2025** at **Approtech R&D Solutions Pvt. Ltd.**, Chennai.

This report is submitted in partial fulfillment of the requirements for the award of the **Bachelor of Technology in Information Technology** under **Anna University**. The work presented here is original and has not been submitted elsewhere for any academic purpose.

LAB IN CHARGE

HEAD OF THE DEPARTMENT

INTERNAL EXAMINER

EXTERNAL EXAMINER

CERTIFICATE Xerox copy

ACKNOWLEDGEMENT

I would like to express my sincere gratitude to **Approtech R&D Solutions Pvt. Ltd.** for providing me with the opportunity to complete my internship in their organization.

I extend my heartfelt thanks to **Dr. Karthi, Head of the Department and Internship Coordinator, Department of Information Technology, St. Joseph College of Engineering**, for his continuous guidance, encouragement, and valuable support throughout the internship program.

I also wish to thank all the faculty members of the Department of Information Technology for their assistance and motivation during the course of my study.

Finally, I am deeply thankful to my family and friends for their constant encouragement and support, which helped me successfully complete this internship.

CHAPTER 1: INTRODUCTION

1.1 Overview

The internship program is an essential part of the academic curriculum, providing students with industry exposure and practical experience. This report presents my internship experience at **Approtech R&D Solutions Pvt. Ltd.**, where I worked as a **Full Stack Developer (Java)** for four weeks.

1.2 Objectives

- To gain hands-on experience in full stack web development.
- To understand how enterprise-level web applications are built using Java and related technologies.
- To apply theoretical knowledge from academic courses to practical business problems.
- To enhance professional skills such as teamwork, communication, and problem-solving.

1.3 Scope of Internship

The internship focused on the **Multi-Vendor E-Commerce Platform** project, covering both backend and frontend modules. The tasks included development, testing, and documentation using modern web development tools.

CHAPTER 2: COMPANY PROFILE

2.1 About the Company

Approtech R&D Solutions Pvt. Ltd. is an ISO 9001:2015 certified company specializing in software development, R&D services, and industrial training. The company is known for shaping the technical skills of students and professionals through real-world projects.

2.2 Vision

To bridge the gap between academia and industry by delivering quality technical solutions and skill-based learning.

2.3 Mission

To provide innovative, research-based software and technology training solutions that empower young engineers to meet industry demands.

2.4 Services Offered

- Software Development
- Web and Mobile App Development
- AI & IoT Solutions
- Industrial Training and Internships
- Project Development for Students

2.5 Organizational Structure

Approtech operates with a well-defined hierarchy:

- Managing Director
- Project Manager
- Senior Developers
- Interns and Trainees

CHAPTER 3: WORK DONE

3.1 Project Title

Multi-Vendor E-Commerce Platform

3.2 Project Overview

The goal of the project was to develop a web-based platform that allows multiple vendors to sell their products under a unified e-commerce system. It involves vendor registration, product management, order handling, and customer interaction.

3.3 Technologies Used

- **Frontend:** HTML, CSS, JavaScript
- **Backend:** Java with Spring Boot
- **Database:** MySQL (via JDBC)
- **Tools:** VS Code, IntelliJ IDEA, MySQL Workbench

3.4 Daily Work Summary

| Week | Activities |
|-------------|---|
| Week1 | Company induction, understanding project requirements, and environment setup. |
| Week2 | Backend setup using Java Spring Boot and database connection via JDBC. |
| Week3 | Frontend design, integration of user and vendor modules. |
| Week4 | Testing, debugging, report documentation, and presentation. |

3.5 Key Modules Developed

- **User Module:** Registration, login, product browsing.
- **Vendor Module:** Vendor registration, product listing, and inventory management.
- **Admin Module:** User and vendor management, reports, and analytics.
- **Database Module:** Tables for user, vendor, product, and transaction records.

CHAPTER 4: FINDINGS

- The internship provided real-world exposure to enterprise-level software development.
- Improved understanding of Java Spring Boot architecture and database connectivity.
- Gained experience in collaborative software development and Git version control.
- Developed a practical understanding of front-end and back-end integration.

CHAPTER 5: SUGGESTIONS

- Introduce version control workshops for new interns.
- Allocate more time for testing and documentation.
- Provide interns with small individual sub-modules for independent problem-solving.
- Conduct a final review session for presenting project outcomes.

CHAPTER 6: CONCLUSION

The internship at **Approtech R&D Solutions Pvt. Ltd.** was a valuable learning experience that bridged the gap between academic learning and industry practices. The exposure to **Java Full Stack Development** enhanced my technical and professional abilities. It also improved my understanding of teamwork, communication, and project execution.

This experience has motivated me to pursue advanced learning in software development and contribute effectively to the IT industry.

REFERENCES

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