

## FINAL PROJECT REPORT – FULL STACK DEVELOPMENT

Internship Title: Full Stack Development

Internship Provider: UpSkill Campus

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College: Shri Shankarlal Sundarbai Shasun Jain College for Women

Course: BCA (2023–2026)

Location: Chennai

Duration: 4 Weeks

Project Title: Full Stack Web Application Development

Domain: Full Stack Development

### ACKNOWLEDGEMENT

I would like to express my sincere gratitude to UpSkill Campus for providing me with the opportunity to learn

and work on Full Stack Development. The structured modules, resources, and continuous guidance helped me

understand the concepts thoroughly and complete my internship project successfully.

### 1. INTRODUCTION

Full Stack Development refers to the process of developing both the frontend and backend components of a web

application. This internship provided hands-on experience in creating a complete web application using client-side,

server-side, and database technologies.

### 2. OBJECTIVES OF THE INTERNSHIP

- Understand frontend and backend development fundamentals
- Build a full stack web application
- Connect frontend, backend, and database
- Learn REST APIs
- Deploy the application

### 3. FULL STACK DEVELOPMENT OVERVIEW

A full stack application consists of a frontend, backend, and database. Each layer communicates through APIs.

### 4. TECHNOLOGIES USED

Frontend: HTML, CSS, JavaScript

Backend: Node.js, Express.js

Database: MongoDB / MySQL

Tools: VS Code, GitHub, Postman

### 5. SYSTEM REQUIREMENTS

Hardware: 4GB RAM, Intel/AMD Processor

Software: Node.js, Browser, VS Code, Git

### 6. PROJECT DESCRIPTION

The project is a Full Stack Web Application that supports CRUD operations, login system, and data storage.

### 7. SYSTEM ARCHITECTURE

User → Frontend → Backend API → Database → Backend Response → User

### 8. FRONTEND MODULE

Responsive UI, JavaScript validations, API integration.

### 9. BACKEND MODULE

Node.js server, Express.js routes, REST APIs, JSON responses.

### 10. DATABASE MODULE

Stores user data and records. Supports insert, update, delete, and fetch operations.

### 11. OUTPUT SCREENSHOTS

(Insert screenshots in final submission)

### 12. CONCLUSION

This internship strengthened my understanding of full stack development and real-world application building.

### 13. REFERENCES

UpSkill Campus Materials, MDN Docs, W3Schools, Node.js Docs, GitHub Guides