

A REPORT
ON
Full Stack Development Internship

Submitted by

Mr Mahesha BR - 20231IST0103

Under the guidance of,

**Mr. Jinesh VN
Ms. Pushpalatha M**

in partial fulfillment for the award of the

degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING (IST)

AT



PRESIDENCY **UNIVERSITY**
BENGALURU
NOVEMBER 2025

PRESIDENCY UNIVERSITY

**PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND
ENGINEERING**

CERTIFICATE

This is to certify that the report of **CSE7000 – Internship** on “**Full Stack Development**” being submitted by “**Mahesha BR**” bearing roll number “**20231IST0103**” in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering (IST) is a bonafide work carried out under our supervision.

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DECLARATION

I hereby declare that the work, which is being presented in the report entitled “**Full Stack Development Internship**” in partial fulfillment for the award of Degree of **Bachelor of Technology** in **Computer Science and Engineering (IST)**, is a record of my own investigations carried under the guidance of **Reviewers Mr. Jinesh V N, Associate Professor & Ms. Pushpalatha M, Associate Professor**, Designation, Presidency School of Computer Science and Engineering, Presidency University, Bengaluru.

I have not submitted the matter presented in this report anywhere for the award of any other Degree.

Mahesha BR
20231IST0103

INTERNSHIP COMPLETION CERTIFICATE

Certificate ID: STAXP991

CERTIFICATE OF INTERNSHIP

This certificate awarded to

Mahesha BR

*is awarded this certificate for successfully completing his/her
1-month internship as a Full-Stack Developer Intern at*



July 30, 2025

Issued Date



A handwritten signature of Pawan Kushwaha over a decorative flourish.

Pawan Kushwaha
Founder & CEO

ACKNOWLEDGEMENT

First of all, I indebted to the **GOD ALMIGHTY** for giving me an opportunity to excel in our efforts to complete this internship on time.

I express sincere thanks to our respected Dean **Dr. Duraipandian N**, Presidency School of Computer Science and Engineering & Presidency School of Information Science, Presidency University for getting us permission to undergo the internship.

I express heartfelt gratitude to our beloved Associate Dean **Dr. Shakkeera L**, Presidency School of Computer Science and Engineering, Presidency University, and **Dr. Pallavi R**, Head of the Department, Presidency School of Computer Science and Engineering, Presidency University, for rendering timely help in completing this internship successfully.

I am greatly indebted to my reviewers **Mr. Jinesh V N, Associate Professor** & **Ms. Pushpalatha M, Associate Professor**, Presidency School of Computer Science and Engineering, Presidency University for their inspirational guidance, and valuable suggestions and for providing a chance to express technical capabilities in every respect for the completion of the internship work.

I would like to convey gratitude and heartfelt thanks to the Internship Coordinator **Dr. Md Ziaur Rahman** and Program Internship Coordinator **Mr. Saptarsi Sanyal**. I also thank my family and friends for the strong support and inspiration they have provided us in bringing out this internship.

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ABSTRACT

This report summarizes the work carried out on during my one-month online internship as a **Full Stack Development Intern StaxTech company**, conducted from **1st July 2025 to 30th July 2025**.

The internship aimed to providing me practical exposure to modern front-end web development and enhance boths technical and professional skills.

During the internship, I worked on “two” main projects — **Currency-convertor** and **ToDoList App**. These projects focused on the strengthening my skills in HTML, CSS, TailwindCSS, TypeScript, React, and API integration.

The projects helped me to explore how to fetch and display real-time data from external API’s & handle user input dynamically, and design visually appealing layouts that can adapt to different screen sizes. Through these projects, I learned to create responsive web designs, fetch and display real-time data using APIs, and manage state case and local storage in React applications. Apart from technical growth, the internship helped me to improve problem-solving, time management, and adaptability skills. Overall, it was available experience for me that built a solid foundation for my future in full-stack web development.

1. INTRODUCTION

The internship at **StaxTech** provided hands-on experience in building real world web applications using front-end technologies. The primary goals of this internship was to enhance my technical expertise in my modern web technologies and to understand the complete workflow's of building it and deploying responsive web's applications. The internship also helped me to understand an importance of writing clean, maintainable, reusable code for better project scalability. The internship included developing user-friendly, interactive, &responsive web interfaces while learning how to connect APIs, handle data dynamically and deploy working applications. It strengthened my understanding offront end workflows and modern tools used in the industry.

2. OBJECTIVES OF THE INTERNSHIP

The objective of this internship was to gain handson experience in frontend development by learning and applying HTML, CSS,TailwindCSS, TypeScript, and React. It aimed to develop responsive and interactive web applications that deliver smooth user experiences. A key focus was understanding API integration to manage dynamic data effectively.The internship alsohelped to enhance web design skills and browser-based debugging to improve code quality. Additionally, itsstrengthened problemsolving and time management abilities through real-world project tasks.Overall, it provided mea practical exposure to professional front-end development and prepared me for further future & roles in the field.

3. PROJECTS AND TASKS UNDERTAKEN

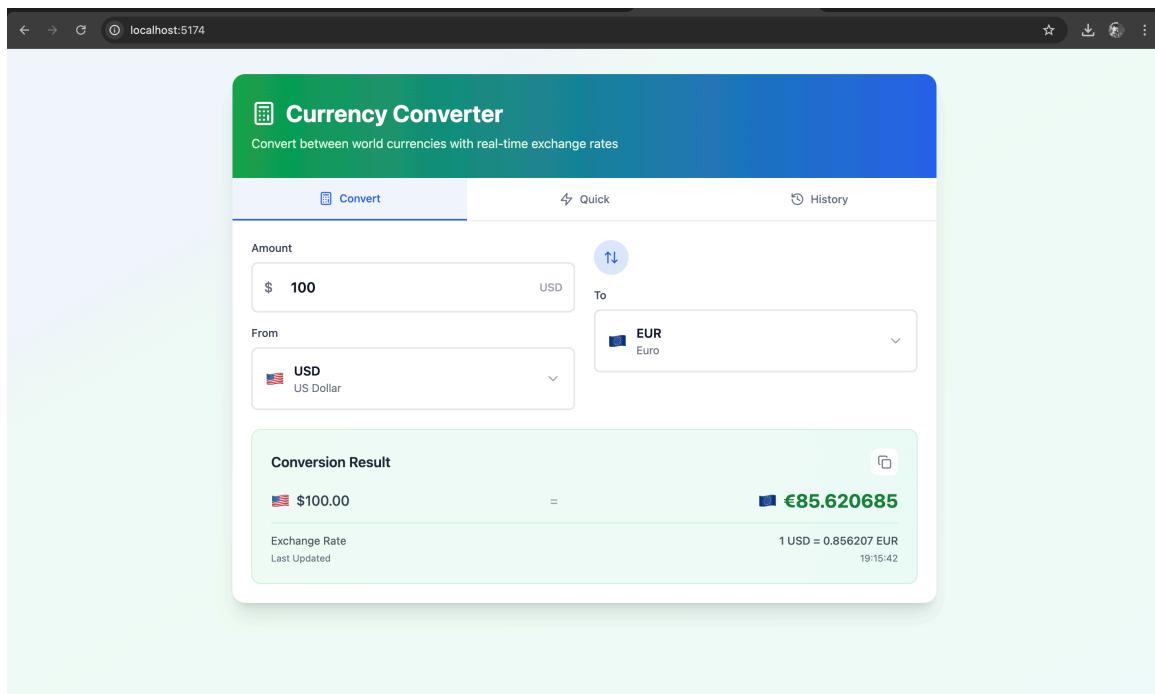
Project 1: Currency-converter

- **Description:**

The Currency Converter App is a responsive web application built using TypeScript, Tailwind CSS, and JavaScript concepts. The main objective of this project was to learn how to integrate real-time currency exchange APIs into a modern frontend application and dynamically display conversion results based on user input.

- **Features:**

- Fetches **real-time currency exchange rates** using a public API (e.g., ExchangeRate API or CurrencyAPI).
- Allows users to select source and target currencies (e.g., USD→INR).



Project 2: ToDo List App

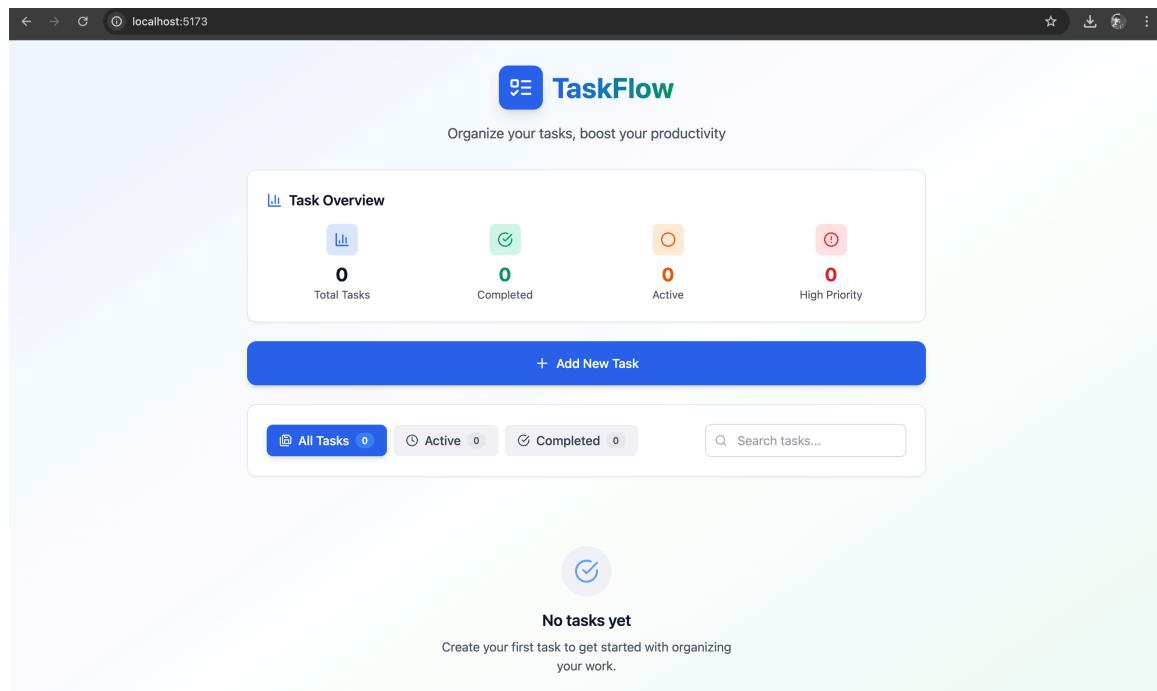
• Description:

An interactive task management app built using React.

Project was aimed at understanding React fundamentals, or such as component structures, state managements, and data persistence using browser storage.

• Features:

- Allows users to add, mark, and delete tasks.
- Uses localStorage to save data even after page refresh.
- Focused on React state management and component structure.
- Implemented responsive UI with reusable components.



4. TECHNOLOGIES AND TOOLS USED

- **Frontend:** HTML, CSS, JavaScript, React
- **Storage:** Local Storage
- **Tools:** Visual Studio Code, GitHub, Browser DevTools

5. SKILLS GAINED

Technical Skills:

Front-end web development using HTML, CSS, TypeScript, & React API integration and data handling
Responsive design and component-based development
Debugging and browser testing
Version control and code management using Git and GitHub.

Soft Skills:

Time management
Problem-solving
Independent learning
Adaptability to new tools and frameworks
Critical thinking and analytical skills
Attention to detail
Creativity and innovation

6. ACHIEVEMENTS AND CHALLENGES

During the internship, I successfully completed my two functional front-end projects, which provided a practical exposure for building real world like applications. I integrated live currency convertor API app effectively, enabling certain dynamic and real time data display in one of the application. Through these projects, I gained hands on experience with React fundamentals, & including hooks and localStorage, and overcame challenges related to state, API data handling and maintaining UI responsiveness across devices. This internship also helped me improve my time management and task prioritization skills to meet project deadlines efficiently. Additionally, I enhanced my problem-solving, adaptability, & independent learning abilities while working on my complex tasks. I also learned version control and collaboration using Git & GitHub, preparing me for professional development workflows.

7. CONCLUSION

The one-month internship at StaxTech provided valuable exposure to frontend web development. Working on practical projects like currency convertor App and ToDo List App strengthened my technical foundations and boosted my confidence in real-world developments. I gained hands-on experience with React, API integration, responsive design, and debugging, which enhanced my problem-solving and analytical skills. Collaborating on projects help to improved my adaptabilities, time management's, and independent learning abilities. Overall, this internship was a significant step in preparing me for future opportunities in software development and gave me a clearer further understanding of professional workflows and industry standards.