

**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.

**Mr. Jinesh V N**  
Associate Professor  
PSCS  
Presidency University

**Ms. Pushpalatha M**  
Associate Professor  
PSCS  
Presidency University

**Mr. Saptarsi Sanyal**  
Associate Professor  
PSCS  
Presidency University

**Dr. Pallavi R**  
HoD  
PSCS  
Presidency University

**Dr. Shakkeera L**  
Associate Dean  
PSCS  
Presidency University

**Dr. Duraipandian N**  
Dean – PSCS & PSIS  
Presidency University

# PRESIDENCY UNIVERSITY

## PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

### 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 in black ink.

**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.

**Mahesha BR**  
**20231IST0103**

## 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 expertising 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

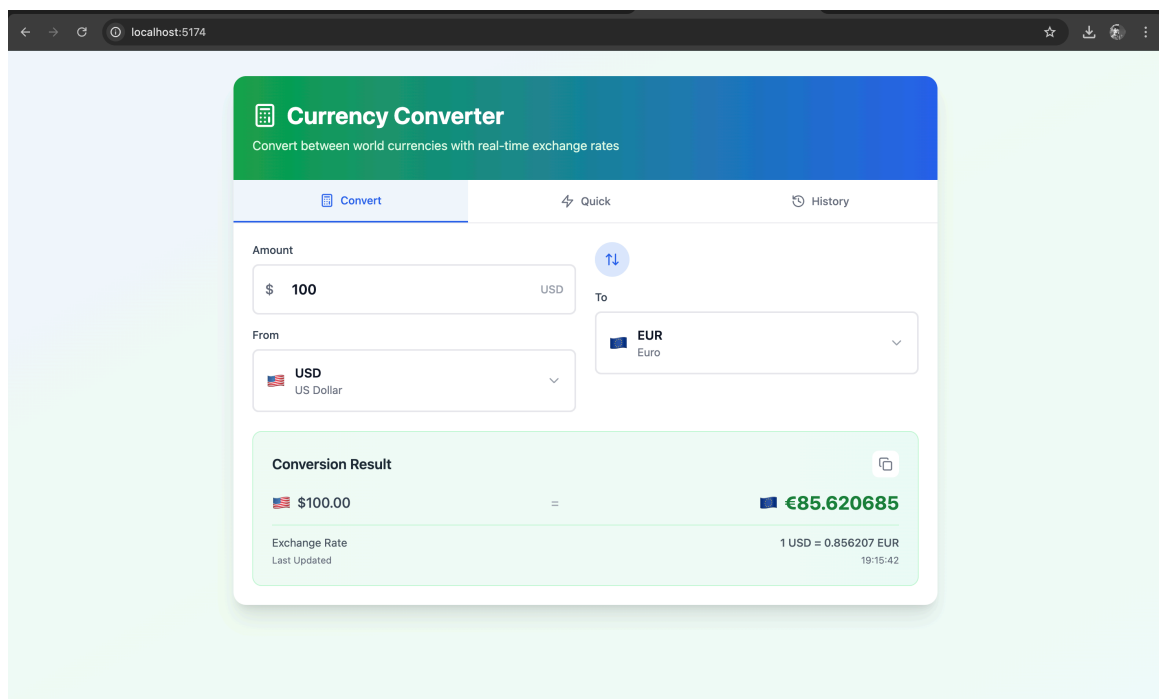
#### Project 1: Currency-convertor

- **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).





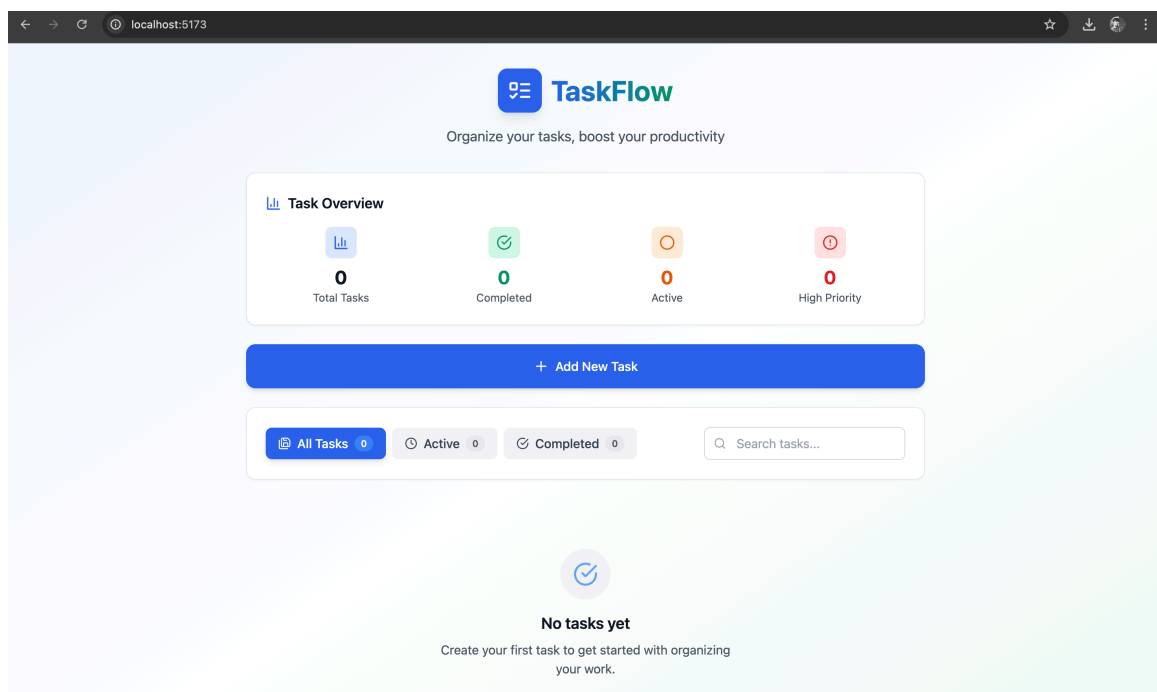
## Project 2: ToDo List App

- **Description:**

An interactive task management apps 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 a 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 To Do 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 helped to improve 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.