Internship Final Report

Student Name: Abhisek Panda

University: Giet University ,Gunupur

Major: Computer Science Engineering

Internship Duration: June 1th, 2025 - June 30th, 2025

Company: ShadowFox

Domain: Web Development

Coordinator: Mr. Aakash

Objectives

1. Build a solid understanding of modern web development methodologies and industry best practices.
2. Obtain practical, hands-on experience designing and developing responsive, user-friendly web applications.
3. As a MERN stack developer, I want to improve my ability to work with key web technologies, particularly React and TypeScript, while also learning about modern frameworks and tools for full-stack development.

Tasks and Responsibilities

- I worked on a variety of practical projects during my internship, which improved my ability to develop websites. Among my main duties were
- **Research and Planning**: To guarantee top-notch implementation, extensive research was done on UI trends, responsive design patterns, and contemporary web practices.
- **Frontend Development**: React and TypeScript were used to create dynamic, responsive user interfaces that ensured the best possible user experience on all devices.
- **API Integration**: RESTful APIs were integrated to facilitate smooth data transfer between the frontend and backend, guaranteeing scalable and effective functionality.
- **Testing and Debugging**: To enhance performance, dependability, and code quality, bugs were found and fixed using developer tools and testing libraries.

- **Project Development:**
  - **Razorpay Clone** – Developed a frontend replica of Razorpay India, replicating UI components, user flows, and interactive elements using React and TypeScript.
  - **IPL Team Website** – Created a comprehensive IPL portal featuring past tournament data, team home grounds, point tables, match winners, live scores, and player photos.
  - **Personal Portfolio Website** – Designed and built my own developer portfolio showcasing an About Me section, tech stack, projects, and contact form—serving as a digital resume of my skills.

Learning Outcomes

Technical Proficiency: I gained hands-on experience in full-stack web development, sharpening my skills in both frontend (React, TypeScript) and backend technologies, as well as working with APIs and managing databases effectively.

End-to-End Web Development Understanding: I developed a strong grasp of the complete web development lifecycle—from planning, wireframing, and design to coding, deployment, and post-launch maintenance.

Problem-Solving and Debugging: This internship enhanced my problem-solving abilities, particularly when tackling bugs, integration issues, or performance bottlenecks. I learned how to approach technical challenges methodically and improve the functionality of web applications.

Professional and Team Skills: Working on real-world projects helped me grow professionally.

Challenges and Solutions

- **State Management with TypeScript:** Managing nested data for the IPL Team Website was tricky. I utilized React state patterns and TypeScript types to simplify and stabilize the structure.
- **Responsive UI Issues:** Ensuring consistent layout across devices for my portfolio site was tough. I solved this using Flexbox, CSS Grid, and thorough cross-device testing.
- **Time Management:** Handling multiple projects at once was overwhelming at first. I used Trello and prioritized tasks effectively to stay on track.

Conclusion

My internship at **ShadowFox** has been an incredibly rewarding experience that gave me practical exposure to the world of web development. Working on real-life projects across both frontend and backend has helped me apply my academic learning in a meaningful way. It not only deepened my technical knowledge but also boosted my confidence in solving real-world development

challenges. This journey has reaffirmed my passion for web development and equipped me with the skills and mindset needed to grow in this field.

Acknowledgments

I would like to express my heartfelt gratitude to the entire team at **ShadowFox**, especially my coordinator **Mr. Aakash** , for his unwavering support, guidance, and encouragement throughout my internship journey.

A special thanks to **GIET University, Gunupur**, for my academic foundation and providing the resources and support that prepared me for this opportunity.

This experience has been a perfect blend of academic learning and practical application, and I am truly thankful to everyone who played a part in this enriching journey.