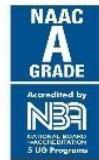




**SAVEETHA
ENGINEERING COLLEGE**

AUTONOMOUS

Affiliated to Anna University | Approved by AICTE



INTERNSHIP REPORT

Submitted by

NAVEEN M (212222110029)

in partial fulfillment for the award of the

degree of

BACHELOR OF ENGINEERING

IN

**DEPARTMENT OF COMPUTERSCIENCE AND ENGINEERING
(INTERNET OF THINGS)**

SAVEETHA ENGINEERING COLLEGE, CHENNAI

DECLARATION BY THE CANDIDATE

I declare that the report entitled “A INTERNSHIP TRAINING REPORT ON WEB SITE DESIGNING AND DEVELOPMENT” submitted by me for the degree of Bachelor of Engineering is the record of the internship work carried out by me under the guidance of “LAVANYA JOYCE” and this work has not formed the basis for the award of any degree, diploma, associateship, fellowship, titled in this or any University or other similar institution of higherlearning.

SIGNATURE

(NAVEEN M)

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1. Introduction

The internship at “CONNECT INFOSYSTEMS” provided me with a comprehensive understanding of web development.

During the 1 month period, I had the opportunity to work on various projects, gaining hands- on experience with different technologies and methodologies used in the industry. This report outlines my roles and responsibilities, the projects I undertook, the challenges I faced, and the learning outcomes from this internship.

2. Company Overview

Being exposed to various Industries for more than Half a Decade, CONNECT INFOSYSTEMS has been successfully placing its milestones predominantly across its timeline and has thus been witnessing a significant upcurve in its statistics. But this story actually starts

nearly a decade before when a single school student starts repairing hardware with just a pair of screwdrivers, running door to door, repairing nearly every electronic, from cameras to computers, induction to iPhones. Talking about the brief history of the company, we have been collaborating with BiRD lab, and IIITDM, and have completed 2 projects including a medical diagnostics project with immense support from NIRT and ICMR.

CONNECT INFOSYSTEMS is where Innovation meets Invention. We have been providing R&D solutions to various companies and we have more than 100+ satisfied customers from different countries around the world. Some of the products include CO2 lasers, Bead blasting, Pressure scanner, Aerospace Equipment, Digital stethoscopes, Farming robots, Diode lasers, Multitasking Robots, Plotters, Student Monitoring robots, IOT-based security systems, 3D Scanner, Bionic Hand, IOT based patient healthcare monitoring systems, Border surveillance system, etc. Research and development (R&D) is a valuable tool for growing and improving your business. R&D involves researching your market and your customer needs and developing new and improved products and services to fit these needs.

Your R&D strategy depends on the size of your business. In small businesses, R&D tends to focus more on product improvement because of budget and cost limitations. Larger businesses may be able to dedicate more time and resources to R&D to introduce new products as well as improve existing ones. The benefits of R&D are often long-term, so it's important to remember that your investment in it may not result in short-term profits.

3. Internship Objectives

My main objectives for this internship were to:

- Gain proficiency in web development technologies such as HTML, CSS, and JavaScript.
- Understand the software development lifecycle in a professional setting.
- Improve my problem-solving and debugging skills.
- Collaborate effectively with team members on projects.

4. Roles and Responsibilities

During my internship, my daily tasks included:

- Writing and maintaining code for various web applications.
- Attending daily stand-up meetings and sprint planning sessions.
- Participating in code reviews and providing feedback to peers.
- Testing applications to ensure they met quality standards.
- Collaborating with designers to implement user interfaces.

5. Learning Outcomes

Throughout the internship, I learned:

- **Technical Skills:** Enhanced my knowledge of HTML, CSS, and JavaScript. Gained experience in using development tools like Git, Webpack, and VS Code.
- **Problem-Solving:** Improved my ability to debug issues and implement effective solutions.
- **Team Collaboration:** Learned the importance of communication and teamwork in a professional setting.
- **Project Management:** Gained insight into agile methodologies and the software development lifecycle.

6.Lessons Learned and Skills Developed

➤ **Technical Skills**

Web Development Technologies:

- **HTML:** Enhanced my ability to structure webpages using HTML. Learned advanced techniques like Flexbox and Grid for creating responsive layouts. I learned the importance of using semantic HTML elements to enhance the accessibility and search engine optimization (SEO) of web pages. Understanding how to properly structure HTML documents improved my ability to create clear, maintainable code.
- **CSS:** I gained a deep understanding of CSS specificity and inheritance, which helped me resolve styling conflicts and write more efficient stylesheets. Learning about the cascade and how CSS rules are applied in a hierarchy was crucial for debugging and optimizing my code.
- **JavaScript:** Gained a deeper understanding of JavaScript for client-side scripting. Worked on DOM manipulation, event handling, and asynchronous programming with Promises and async/await.

Version Control:

- **Git:** Improved my proficiency with Git for version control. Learned how to manage branches, resolve merge conflicts, and follow best practices for commit messages and branching strategies.

Development Tools:

- **Visual Studio Code:** Became adept at using VS Code, leveraging extensions, keyboard shortcuts, and debugging tools to enhance productivity.
- **Webpack & Babel:** Learned how to use Webpack for module bundling and Babel for transpiling modern JavaScript syntax to ensure compatibility with older browsers.

Problem-Solving and Debugging

Debugging Techniques:

- Learned to use browser developer tools (Chrome DevTools) to debug issues in web applications. This included inspecting elements, monitoring network requests, and profiling performance.
- Developed a systematic approach to troubleshooting, starting from identifying the issue, isolating the cause, and implementing effective solutions.

Algorithmic Thinking:

- Improved my algorithmic thinking by solving various coding challenges and optimizing code for better performance and efficiency.

Project Management and Collaboration

Agile Methodologies:

- Gained practical experience with Agile methodologies, participating in sprint planning, daily stand-ups, and retrospectives. Understood the importance of iterative development and continuous feedback.

Collaboration Tools:

- Used collaboration tools like Jira for task management and Slack for team communication. Learned to document progress, share updates, and coordinate with team members effectively.

Code Reviews:

- Participated in code reviews, both as a reviewer and a reviewee. Learned to provide constructive feedback, understand different coding styles, and adopt best practices from peers.

Soft Skills

Communication:

- Improved my verbal and written communication skills by regularly updating my team on project progress, participating in meetings, and documenting technical information clearly.

Time Management:

- Developed better time management skills by balancing multiple tasks and meeting project deadlines. Learned to prioritize tasks based on their importance and urgency.

Adaptability:

- Adapted to new technologies and frameworks quickly, demonstrating the ability to learn and apply new skills in a fast-paced environment.

Teamwork:

- Understood the importance of teamwork in achieving common goals. Learned to collaborate effectively with team members, share knowledge, and support each other.

Industry Insights

Best Practices:

- Gained insights into industry best practices for web development, including code quality standards, security considerations, and performance optimization techniques.

User-Centered Design:

- Learned the importance of user-centered design in creating intuitive and accessible web applications. Worked closely with designers to ensure that user interfaces were both functional and aesthetically pleasing.

Continuous Learning:

- Realized the importance of continuous learning and staying updated with the latest trends and advancements in web development. Committed to ongoing self-improvement and professional development.

These lessons and skills have significantly contributed to my growth as a web developer, providing me with a strong foundation to build upon in my future career. The internship experience has been invaluable in shaping

my understanding of the web development industry and preparing me for future challenges.

7.CONCLUSION

As a conclusion, I can say that this internship was a great experience. Thanks to this project, I acquired deeper knowledge concerning my technical skills but I also personally benefited. Currently PHP pages are a common part of web applications, and one of the most popular language for web development used by developers worldwide.

If we surf internet we can see millions of websites built with PHP and MYSQL. I learned to live in a different environment from the one I am used to. Indeed, I became more independent in work and also in everyday life. I realized that I could do more things than I thought like learning new things by myself. There are huge opportunities available for the students who want to work in this field.

Many private and public organizations hire web designer for their online work and website development. With the rapid advent of online industry, the demand of web development professionals is increasing and this has created a huge job opportunity for the aspirants in the upcoming days. Also an experienced person in this field can also work as a freelancer; there are many online companies which provide online projects to the individuals.

8.

ACKNOWLEDGEMENT

I am thankful to our respected Chairperson **Dr. N. M. Veeraiyan**, Saveetha Engineering College, Chennai for giving me the opportunity to tap my creative resources, expressing my skills and making them widely known.

I would like to express my sincere gratitude to **Dr. V.Vijaya Chamundeeswari**, M.Tech, Ph.D,Principal, Saveetha Engineering College, Chennai, for providing me a valuable opportunity to undergo this internship.

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I would like to acknowledge (**CONNECT INFOSYSTEMS**) for providing the resources to undergo this internship at various departments and guiding me throughout the internship duration.

Above all, I am whole heartedly grateful to our **Parents and Friends** for having stood by me at all times.

CERTIFICATE



INTERNSHIP CERTIFICATE

This certifies that

NAVEEN M

*Studying II Year, Having Roll no: 212222110029
in Saveetha Engineering College (Autonomous), Chennai*

Has attended and successfully completed internship program

Web site Designing & Development

In HTML, CSS & Java at

Connect Infosystems, Chennai-95

Period of Intern

25th June 2024 to 23rd July 2024

Certificate Number

CIS-2024-072024-1001

Connect Infosystems



Sr. Manager (Training)



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