

Internship at Simption Tech Pvt ltd

Internship Report

Submitted for the partial fulfillment of the degree of

Bachelor of Technology

In

Computer Science & Engineering

Submitted By

Palak Dixit

0901CD211038

UNDER THE SUPERVISION AND GUIDANCE OF

Dr. Dheeraj Kumar Dixit

Assistant Professor

Department of Computer Science & Engineering



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA
माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत

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January-May 2025

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I hereby declare that the work entitled **Internship at Simption Tech Pvt ltd** is my work, conducted under the supervision of **Mr. Sourabh Kushwaha, Software developer**, during the session Jan-May 2025. The report submitted by me is a record of bonafide work carried out by me.

I further declare that the work reported in this report has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.



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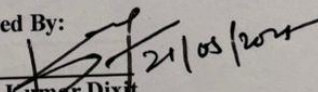
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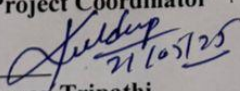


Dr. Dheeraj Kumar Dixit

Assistant Professor

Department of Computer Science & Engineering
MITS, Gwalior

Departmental Project Coordinator



Dr. Kuldeep Narayan Tripathi
Assistant Professor
Department of Computer
Science & Engineering
MITS, Gwalior

Approved by HoD



21/05/25

Dr. Manish Dixit

Professor & Head

Department of Computer
Science & Engineering
MITS, Gwalior

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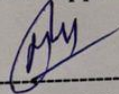
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Checked & Approved By:



Prof. Mahesh Parmar
Assistant Professor

Department of Computer Science & Engineering
MITS, Gwalior

ABSTRACT

This internship supplied realistic experience in front and back end web improvement, emphasizing the introduction of responsive and person-friendly interfaces. I labored on designing and developing dynamic internet pages, integrating meta templates for flexible content rendering, and ensuring go-browser compatibility. The internship additionally involved enhancing UI/UX through interactive factors, established layouts, and overall performance optimization. at some stage in the venture, I followed quality practices in front-give up coding the usage of HTML, CSS, and JavaScript, React and collaborated with backend teams to seamlessly combine APIs into the consumer interface. This enjoy more suitable my knowledge of the front-stop structure, design concepts, and the significance of turning in intuitive digital reports.

ACKNOWLEDGEMENT

I would like to express my sincere gratitude to **Simption Tech Pvt Ltd** for providing me with the opportunity to undertake this enriching internship, which has significantly contributed to my learning and professional development in front-end web development.

I am especially thankful to **Mr. Sourabh Kushwaha** for his invaluable guidance, constant support, and mentorship throughout the internship. His insights and feedback played a crucial role in enhancing my understanding of real-world development practices and refining my technical skills.

I would also like to extend my heartfelt thanks to my faculty mentor, **Dr. Dheeraj Kumar Dixit**, for her encouragement and continuous support during this internship.

This experience has been a significant step in my journey as a web developer, and I am truly grateful to everyone who contributed to its success.



Palak Dixit

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CHAPTER 1: INTRODUCTION

The internship at Simption Tech Pvt ltd, which commenced on 13th January 2025, was undertaken as a part of my academic curriculum to gain practical exposure and hands-on experience in the field of web development. This opportunity allowed me to bridge the gap between theoretical knowledge and real-world application by working on live projects within a professional environment.

Purpose of the Internship

The primary purpose of the internship was to apply classroom learning to actual development scenarios, enhance technical competencies, and understand industry-standard practices in web development. It aimed to provide insights into how front-end technologies are used to create responsive, user-centric web interfaces and how these integrate with backend systems.

Objectives

1. To gain practical experience in front-end web development using HTML, CSS, JavaScript, and modern frameworks.
2. To understand and implement meta templates for dynamic content rendering.
3. To collaborate effectively with development teams and understand workflow in a professional setting.
4. To improve UI/UX design skills and follow best practices in web development.
5. To enhance problem-solving skills through debugging and optimizing front-end components.

Scope of Work

The scope of the internship was focused on front-end development tasks. These included designing web pages, integrating APIs with the front-end, applying responsive design principles, and working with meta templates to support dynamic content. The work also involved cross-team collaboration with backend developers to ensure cohesive functionality, along with performance improvements and user interface enhancements.

CHAPTER 2: LITERATURE SURVEY

Overview of Modern Web Development

Web development has evolved significantly over the past decade, transforming from simple static websites to complex, interactive web applications. The field now encompasses a wide range of technologies, frameworks, and methodologies designed to create user-friendly, responsive, and secure web experiences.

Front-End Development Technologies

HTML and CSS

HTML and CSS form the foundation of modern web development. HTML introduced semantic elements, form improvements, and multimedia support, while CSS brought advanced styling capabilities including animations, transitions, and responsive design features.

JavaScript and Its Frameworks

JavaScript has become a crucial language for web development, enabling interactive and dynamic web pages. Frameworks such as React have streamlined the development process by providing reusable components and efficient state management.

Responsive Design

With the proliferation of devices with varying screen sizes, responsive design has become essential. Techniques like fluid grids, flexible images, and media queries ensure optimal user experience across all devices.

Development Methodologies

Agile methodologies like Scrum and Kanban have become standard in web development projects, emphasizing iterative development, continuous feedback, and team collaboration.

Current Trends in Web Development

Recent trends include Progressive Web Apps (PWAs), serverless architecture, headless CMS solutions, and increasing focus on web performance optimization and accessibility.

CHAPTER 3: WORK DONE

During my internship at Simption Tech Pvt ltd, I was primarily involved in web development tasks that contributed to enhancing the functionality and user experience of internal and client-facing web applications. My work focused on designing and developing responsive web pages using HTML, CSS, JavaScript and React, with an emphasis on clean, modular code and consistent design practices. A key responsibility was working with meta templates, which allowed for dynamic content rendering and greater flexibility in managing web components. I also collaborated closely with the backend team to integrate APIs into the front- end, ensuring accurate data presentation and seamless interaction between the client and server sides. This involved fetching, displaying, and updating data dynamically, while handling errors and edge cases gracefully to improve user interaction. I actively contributed to UI/UX improvements by optimizing layouts for different screen sizes and ensuring accessibility and cross-browser compatibility. Debugging and performance optimization were integral to the process, where I used browser developer tools to identify and resolve front-end issues. I regularly participated in code reviews and team discussions, gaining exposure to collaborative workflows and version control systems such as Git. Throughout the internship, I adhered to industry best practices for front-end development and received valuable feedback from my mentor, Mr. Sourabh Kushwaha, which helped me refine my technical and professional skills. This experience not only strengthened my understanding of front-end technologies but also prepared me to work effectively in real-world development environments with a focus on usability, maintainability, and performance.

CHAPTER 4: OUTCOMES GAINED

- **Hands-on Experience with CSS:** I gained a deeper understanding of CSS, focusing on developing reusable components, managing state efficiently, and integrating dynamic features into the frontend. This experience sharpened my skills in building responsive and interactive web applications.
-
- **Database Setup & Management:** I successfully set up and managed a **local database** environment, simulating real-world conditions. This allowed me to work on data storage and retrieval processes effectively, providing a clear understanding of backend interactions.
-
- **Problem-Solving and Debugging Skills:** Throughout the internship, I honed my problem-solving abilities, debugging complex issues that arose during integration or API testing. This experience taught me how to troubleshoot effectively and develop efficient solutions.
-
- **Collaboration and Communication:** Working alongside team members and clients, I improved my communication skills, especially in discussing technical issues and presenting development progress. Collaborating with others enhanced my ability to work in a team environment and share insights.
-
- **Documentation and Reporting:** I contributed to documentation, preparing clear and concise reports, acknowledgments, and abstracts. This helped improve my ability to present technical work in a structured and professional manner.

CHAPTER 5: SKILLS GAINED

1. **React.js Development:**

- Developed proficiency in building **responsive, interactive user interfaces** using **React.js**, including creating reusable components, managing component lifecycle, and optimizing performance through techniques like lazy loading.
-

2. **Frontend Design & Development:**

- Gained hands-on experience in **UI/UX design** and implemented user-friendly layouts with React. Worked with HTML, CSS, and JavaScript to ensure that the web application was both functional and visually appealing.
-

3. **Database Management:**

- Gained experience in **setting up and managing local databases**. This helped me understand **data storage** and **retrieval** processes, which are essential for full-stack development.
-

4. **Problem-Solving and Debugging:**

- Developed strong **problem-solving skills** while identifying and fixing bugs in the codebase. Enhanced ability to approach technical challenges logically and systematically.
-

5. Collaboration and Teamwork:

- Learned to effectively **collaborate with a development team**, discuss technical concepts, and contribute to joint tasks. Improved communication skills for presenting ideas, discussing issues, and receiving feedback.
-

6. Version Control with Git:

- Gained hands-on experience in using **Git** for version control, allowing for better management of code and collaborative development in a team setting.
-

7. Time Management and Multitasking:

- Learned to manage multiple tasks simultaneously, prioritize assignments, and meet deadlines, all while maintaining high-quality work.
-

8. Professional Documentation:

- Improved ability to prepare **technical documentation** and reports, enhancing my skills in articulating complex concepts clearly and concisely for both technical and non-technical audiences.

CHAPTER 6: SOCIAL RELEVANCE

The work carried out during this internship has significant social relevance, particularly in the context of **digital empowerment** and **technology access**. By integrating **authentication mechanisms** and the project contributes to making web applications more secure and accessible, fostering a safer digital space for users. This directly addresses the growing need for data privacy and security in today's online world.

Moreover, the setup of **local databases** have practical implications for improving digital infrastructure in underserved communities, where the understanding and application of modern web technologies are essential for economic growth and development. Ensuring the **localization of web applications** through efficient backend management and dynamic user interfaces can empower small businesses and local organizations to adopt digital tools, bridging the digital divide.

In the broader sense, the skills and technologies learned and applied—such as **React.js development** and **database management**—are essential in a world that is increasingly moving towards **digital transformation**. The project also aligns with **community development goals**, promoting accessible and secure technological solutions that can be scaled to larger populations, including those in rural or underdeveloped areas.

By developing secure, user-friendly applications, this work indirectly supports social causes like **education**, **digital literacy**, and gender equality in technology, where women and marginalized groups often face challenges accessing technological resources.

The work done in this internship contributes to the larger social agenda of **empowering marginalized communities** and **advancing educational and economic opportunities** through technology. As digital literacy and access continue to expand, the role of secure and accessible web applications becomes even more crucial in creating inclusive and equal opportunities for all. By developing solutions that prioritize security, accessibility, and ease of use, this project reflects the potential of technology to bridge gaps and drive positive social change.

CHAPTER 7: CONCLUSION

In conclusion, this internship provided an invaluable learning experience, offering practical insights into **frontend development**, and **database management**. Throughout the internship, I developed essential skills in **React.js** and **authentication mechanisms**, while contributing to creating secure, user-friendly web applications.

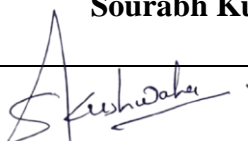
The project also strengthened my problem-solving and debugging abilities, as I learned how to approach and resolve issues within a real-world application environment. Additionally, the opportunity to work with a team improved my communication and collaboration skills, preparing me for future roles in a professional setting.

Beyond technical skills, the internship emphasized the importance of **security** in web development, a topic of increasing relevance as the digital landscape continues to grow. The experience also highlighted the **social relevance** of developing accessible and secure technologies, especially in underserved areas, where digital empowerment can drive significant social and economic change.

Overall, this internship has been a critical step toward my growth as a web developer and has equipped me with the tools and knowledge necessary to contribute effectively to future projects in the tech industry.

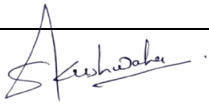
CHAPTER 8: MONTHLY REPORTS OF PROGRESS (MRP)


MONTHLY REPORT OF PROGRESS (MRP) FROM INDUSTRY MENTOR

Name of student	Palak Dixit	Department	CSE		
Industry/Organization	Simption Tech Pvt Ltd. Bhopal	Date/Duration	03/01/25 -03/02/25		
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					√
Learning capacity/Knowledge upgradation				√	
Performance/Quality of work				√	
Behaviour/Discipline/Team work					√
Sincerity/Hard work			√		
Comment on nature of work done/Area/Topic	This month, Palak showed a genuine commitment to teamwork and collaboration, fostering a positive and inclusive environment where everyone felt valued and supported.				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
	√				
<u>Name of Industry Mentor</u>	Sourabh Kushwaha				
<u>Signature of Industry Mentor</u>					

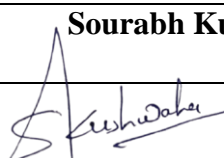
Receiving Date	12/02/2025	Name of Faculty Mentor	Dr. Dheeraj K. Dixit	Sign	
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MONTHLY REPORT OF PROGRESS (MRP) FROM INDUSTRY MENTOR

Name of student	Palak Dixit		Department	CSE	
Industry/Organization	Simption Tech Pvt Ltd. Bhopal		Date/Duration	03/02/25 -03/03/25	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					√
Learning capacity/Knowledge upgradation				√	
Performance/Quality of work				√	
Behaviour/Discipline/Team work					√
Sincerity/Hard work			√		
Comment on nature of work done/Area/Topic	This month, Palak showed a genuine commitment to teamwork and collaboration, fostering a positive and inclusive environment where everyone felt valued and supported.				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u> align="right">√				
<u>Name of Industry Mentor</u>	Sourabh Kushwaha				
<u>Signature of Industry Mentor</u>					

Receiving Date	13/03/2025	Name of Faculty Mentor	Dr. Dheeraj K. Dixit	Sign	
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MONTHLY REPORT OF PROGRESS (MRP) FROM INDUSTRY MENTOR

Name of student	Palak Dixit	Department	CSE		
Industry/Organization	Simption Tech Pvt ltd. Bhopal	Date/Duration	10/03/25 -12/04/25		
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				√	
Learning capacity/Knowledge upgradation					√
Performance/Quality of work					√
Behaviour/Discipline/Team work					√
Sincerity/Hard work				√	
Comment on nature of work done/Area/Topic	She has been actively involved in the designing and development of projects. She has also made visible progress in using technical tools. Moreover, she is proactive in taking feedback and implementing improvements.				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u> √				
<u>Name of Industry Mentor</u>	Sourabh Kushwaha				
<u>Signature of Industry Mentor</u>					

Receiving Date	12/04/2025	Name of Faculty Mentor	Dr. Dheeraj K. Dixit	Sign	
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