

Responsive Landing Webpage

Internship Report

Submitted for the partial fulfillment of the degree of

Bachelor of Technology

In

Computer Science & Engineering

Submitted By

Sakshi Gedam

0901CD211048

UNDER THE SUPERVISION AND GUIDANCE OF

Prof.Jigyasa Mishra

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 "Responsive Loading Webpage" is my work, conducted under the supervision of Jigyasa Mishra, Assistant Professor, 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 institution or any other institute or university.

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0901CD211048

Date: 21/05/25

Place: Gwalior

This is to certify that the above statement made by the candidate is correct to the best of my knowledge and belief.

Guided By:

Prof. Jigyasa Mishra

Assistant Professor

Department of Computer Science and Engineering
MITS, Gwalior

Departmental Project Coordinator

Dr. Kuldheep Narayan Tripathi

Assistant Professor

Department of Computer Science and Engineering
MITS, Gwalior

Approved by HOD

21/05/25

Dr. Manish Dhatt

Professor and Head

Department of Computer
Science and Engineering
MITS, Gwalior

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0901CD211048

Checked & Approved By:



Prof. Mahesh Parmar

Assistant Professor

Department of Computer Science and Engineering
MITS, Gwalior

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The summer semester internship has proved to be pivotal to my career. I am thankful to my institute, Madhav Institute of Technology and Science to allow me to continue my disciplinary internship as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. I extend my gratitude to the Vice Chancellor of the institute, **Dr. R. K. Pandit** and Dean Faculty of Engineering & Technology, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Computer Science & Engineering**, for allowing me to explore this internship. I humbly thank **Dr. Manish Dixit**, Professor and Head, **Computer Science & Engineering**, for his continued support during the course of this engagement, which eased the process and formalities involved.



Sakshi Gedam

0901CD211048

ABSTRACT

As a front-end developer at Apptech Interactive, I had the opportunity to lead the design and development of the user interface for Web development, an innovative product designed to enhance online communication. My role primarily involved creating visually appealing and functional interfaces that engage and retain users. One of the key features I implemented was a vibrant gradient design using CSS. This not only added a modern and dynamic look to the application but also significantly improved the user experience by making the interface more inviting and pleasant to interact with. Additionally, I developed a self-submitting form feature. This functionality streamlined the user interaction by reducing the steps needed to submit information, thereby enhancing the overall efficiency and user satisfaction. The form was designed to be intuitive, guiding the users through a seamless data entry process that submits automatically upon completion, minimizing user effort and maximizing usability. Another significant contribution was integrating an auto-recommendation feature for searches, powered by JavaScript. This feature suggests search terms to users as they type, based on the most relevant previous searches and popular queries. It not only speeds up the search process but also helps in discovering new content, thereby improving the functionality of the Web development platform

Overall, these enhancements played a crucial role in boosting the performance and appeal of Web development, resulting in a more engaging and user-friendly product. Through thoughtful design and strategic implementation of front-end technologies, I was able to contribute significantly to the product's success, ensuring a positive user experience and fostering greater interaction within the platform

CONTENT

Table of Contents

Declaration by the Candidate	i
Plagiarism Check Certificate	ii
Abstract.....	iii
Acknowledgement	iii
Chapter 1: Introduction.....	1
Chapter 2: Literature Survey	2
Chapter 3:Company Profile	3
Chapter 4:Internship Work & Project Description.....	3
Chapter 5:learning and Reflection	4
Chapter 6:Expected & Achieved Outcome.....	6
Chapter 7:Conclusion	7
Chapter 8:Future Work.....	8
Chapter 9:Social Relevance.....	9
MPR-1.....	10
MPR-2.....	11
MPR-3.....	12
References.....	13

ACRONYMS

Responsive Landing Webpage

- HTML: HyperText Markup Language
- CSS: Cascading Style Sheets
- JS: JavaScript • ARIA: Accessible Rich Internet Applications
- SEO: Search Engine Optimization
- SLR: Single-Lens Reflex

NOMENCLATURE

Responsive landing page

- HTML: Webpage structure.
- CSS: Page styling.
- JS: Adds interactivity.
- Navbar: Top menu for navigation.
- Header: Intro section with title.
- Section: Content divisions (history, features, etc.).
- Responsive Design: Adapts to screen sizes.
- Toggle Button: Navbar for small screens.
- Smooth Scrolling: Fluid section transitions.
- Active Section Highlight: Shows current section in navbar.
- ARIA: Enhances accessibility.
- Alt Text: Describes images for accessibility.

CHAPTER 1: INTRODUCTION

I am Sakshi Gedam, a dedicated and skilled Web Developer with a passion for creating innovative digital solutions. I currently work at Apptech Interactive, where I have had the opportunity to significantly contribute to the development of a notable product, Web development. My role primarily focuses on developing engaging user interfaces that enhance user experience and performance. In my tenure with Web development, I have utilized my expertise in CSS to design visually appealing gradients that not only capture the user's attention but also ensure a smooth visual flow across the platform. My commitment to delivering high-quality aesthetics is matched by my technical abilities in implementing dynamic functionalities. One of my key contributions to Web development has been the development of a self-submit form feature. This initiative was designed to streamline interactions on the platform, making it more intuitive and user-friendly. Additionally, I have integrated an auto-recommended search functionality using JavaScript. This feature enhances the usability of the product by providing users with suggestions in real time, thereby improving their experience and the efficiency of the search process. My technical skills are complemented by a constant eagerness to learn and adapt to new technologies, which keeps me on the cutting edge of front-end development. Working with a forward-thinking company like Apptech Interactive has not only expanded my professional skill set but has also deeply enriched my approach to user interface design and interactive functionality.

CHAPTER 2: LITERATURE SURVEY/BACKGROUND/TECHNOLOGY

In a rapidly evolving world of Web development, the need for engaging and interactive user interfaces is more potent than ever. Notably, the integration of gradients and self-submit forms in UI design highlights the transition towards visually appealing and user-centric digital products. Studies by Brown and Johnson (2021) emphasize the psychological impact of color gradients on user perception and engagement, proving that visually appealing interfaces tend to retain users longer and enhance user satisfaction. Furthermore, the development of auto-recommended search functionalities, as demonstrated in the recent work by Lee et al. (2022), significantly optimizes user experience by reducing search time and improving accuracy. By employing JavaScript algorithms that predict user queries, websites can offer a more personalized interaction, which not only aids user navigation but also boosts website usability. Additionally, the adoption of responsive design principles, as explored by Chang (2020), ensures that web applications maintain functionality and aesthetic appeal across various devices, thus broadening user access and interaction. This approach addresses the growing trend of mobile-first browsing, showcasing a significant shift in development priorities. Overall, the literature suggests that incorporating advanced CSS techniques, along with JavaScript-powered features like auto-complete search, substantially enhances the front-end user experience. These technologies not only cater to the visual and interactive expectations of modern users but also contribute to the strategic goals of businesses striving for greater digital presence and customer engagement. As this field continues to evolve, ongoing research and adaptation of these technologies will be crucial in staying ahead in the competitive digital landscape

CHAPTER 3: Company Profile

At Apptech Interactive, our foundation is built upon a deep commitment to our clients. We believe in forging relationships that are based on trust, reliability, and exceptional performance. Our team is dedicated to transforming creative ideas into tangible results, ensuring that each project exceeds expectations and enhances your digital presence.

Software Development: Our developers are more than just coders; they're craftsmen who breathe life into your most complex software challenges. We innovate solutions that aren't just functional but radically efficient and forward-thinking, ensuring that your business stays ahead of the curve.

Website Development: Our approach to website development combines aesthetics with functionality. Each website we craft is a testament to our dedication to detail, ensuring seamless user experiences that are not only visually engaging but also performance-driven.

Application Development: We specialize in creating applications that are not just applications but gateways to user engagement. Our developed apps keep users coming back, thanks to intuitive designs and compelling usability. **UI/UX Design:** The user interfaces and experiences we design are meticulously sculpted. We prioritize user engagement through designs that are both innovative and intuitive, making every interaction a pleasure.

Digital Marketing: Our digital marketing strategies are designed to make your brand irresistible. We ensure that your brand achieves a viral reach, turning prospects into loyal customers with our inventive and results-driven marketing tactics.

CHAPTER 4: Internship Work & Project Description

Project Overview: Lakshya Infinity Classes is a reputed coaching institute offering courses for competitive exams like IAS, SSC, Banking, NDA, NEET, and IIT-JEE. As a **Front-End Developer**, I am contributing to the design and development of their official website, focusing on creating a responsive, user-friendly interface that enhances the learning experience. My role involves building intuitive layouts, improving UI/UX, and ensuring seamless integration with backend systems to support real-time updates and easy access to course content and information.

Here are the **key goals of the project** in bullet points:

Responsive Design: Ensure that the website is responsive and accessible across multiple devices and screen sizes. Implement a user-friendly interface with intuitive navigation and clear presentation of content.

Admin Dashboard and Moderation Tools: Develop an admin dashboard with moderation tools to manage user accounts, monitor discussions, and address any issues related to content quality or community guidelines.

Testing and Deployment: Conduct thorough testing to ensure the functionality, performance, and security of the website. Deploy the website on a suitable hosting platform, ensuring reliability and scalability.

By undertaking this internship project, interns will gain practical experience in web development, database management, user interface design, and project management, preparing them for Software role.

CHAPTER 5: Learning and Reflection

Working on the Lakshya Infinity Classes website as a Front-End Developer has been a valuable learning experience for me. I gained hands-on experience in building responsive and user-friendly interfaces using HTML, CSS, and JavaScript. I also learned how to collaborate effectively in a real-world development environment, communicate with team members, and implement feedback to improve the UI/UX.

This project helped me understand the importance of user-centric design and performance optimization in educational platforms. I also became more confident in using tools like version control (Git) and frameworks (if used). Overall, this internship not only improved my technical skills but also strengthened my problem-solving abilities, time management, and understanding of how frontend development plays a crucial role in shaping user experiences.

Working on the Lakshya Infinity Classes website helped me apply what I learned in class to a real project. I improved my front-end skills, especially in creating responsive layouts and enhancing user experience. I also learned how important teamwork and communication are when working on software projects. This experience taught me to write cleaner code, manage time better, and be open to feedback. Overall, it was a great opportunity to grow both technically and professionally.

CHAPTER 6: Expected and Achieved Outcome

Expected Outcome: As a student, I expected to improve my front-end development skills, gain practical experience by working on a real-world project, and understand how professional websites are built and maintained. I also aimed to learn how to collaborate with a development team and contribute effectively to a larger codebase.

Achieved Outcome: Through this project, I successfully enhanced my skills in HTML, CSS, JavaScript (and any frameworks used), and responsive design. I learned how to implement clean UI designs, fix bugs, and optimize performance. I also gained valuable experience in teamwork, version control using Git, and handling real-time feedback. This project helped me grow both technically and professionally, meeting and even exceeding my initial expectations.

Initially, I expected to improve my front-end development skills, gain practical experience working on a real project, and learn how to collaborate within a development team. I aimed to understand the process of building and maintaining a professional website. Throughout the project, I was able to enhance my skills in HTML, CSS, and JavaScript, build responsive user interfaces, and work effectively with my team using tools like Git.

CHAPTER 7: Conclusion

Working on the Lakshya Infinity Classes website as a front-end developer has been a rewarding and enriching experience. It allowed me to apply my theoretical knowledge in a real-world setting, improve my technical and collaborative skills, and gain confidence in building responsive and user-friendly web interfaces. This project not only strengthened my foundation in web development but also prepared me for future professional opportunities in the tech industry.

Working on the Lakshya Infinity Classes website as a front-end developer has been a transformative experience in my learning journey. It allowed me to apply my theoretical knowledge to a real-world project and gain hands-on experience in building responsive and user-friendly web interfaces. Collaborating with a development team helped me understand the importance of communication, version control, and clean coding practices. This project not only strengthened my technical skills in HTML, CSS, and JavaScript but also boosted my confidence and enhance my skill.

CHAPTER 8: Future Work

In the future, I would like to add more features to the website to make it even better for students and teachers. For example, a personalized dashboard for students to track their courses and progress, or a live chat option to get quick help. It would also be great to include video lessons and quizzes. I want to learn and use newer tools like React to make the website faster and easier to update. Improving the website's design and making sure it works well on all devices will also be part of my future goals.

Contributions to Open Source Projects: Interns can engage with open-source communities, contributing code, documentation, or bug fixes to projects aligned with their interests. This not only enhances technical skills but also fosters collaboration and gives back to the developer community.

Entrepreneurial Ventures: Interns may choose to leverage their newfound skills to explore entrepreneurial ventures, such as launching their own web-based startup freelancing as web developers, providing services to clients.

Continued Learning and Certifications: Pursuing advanced certifications or continuing education programs in web development can further solidify skills and enhance marketability in the job market.

Leadership and Mentorship Roles: As interns gain experience and expertise, they can transition into leadership roles within development teams or take on mentorship responsibilities, guiding newer developers and contributing to the growth of the tech **community**.

Research and Innovation: Interns interested in pushing the boundaries of web development can engage in research initiatives or personal projects aimed at exploring novel solutions, optimizing performance, or addressing emerging challenges in the field.

CHAPTER 9: Social Relevance

Lakshya Infinity Classes holds significant social relevance for students, especially those preparing for competitive exams like IAS, SSC, Banking, NDA, and others. In today's highly competitive world, access to quality education and proper guidance is essential for students to succeed and contribute meaningfully to society. Lakshya Infinity Classes provides a structured and disciplined learning environment where students can focus on their goals with clarity. The institute offers expert faculty, comprehensive study material, regular tests, and performance analysis, which together help students build strong academic foundations, boost their confidence, and improve their problem-solving and analytical skills.

As a student, being part of such an educational platform not only enhances academic knowledge but also instills life skills such as time management, self-discipline, and perseverance. These qualities are crucial not only for clearing exams but also for becoming responsible and productive members of society. Furthermore, Lakshya Infinity Classes often supports students from diverse and underprivileged backgrounds, making education more inclusive and accessible. By doing so, it helps reduce social and educational inequalities, promoting upward mobility and social transformation.

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Please Follow Standard Format such as IEEE Format

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INTERNSHIP OFFER LETTER

APT/|25/|P102344

DATE:

Dear Sakshi Gedam,

13 Jan 2025

We are delighted to welcome you for the internship in our fellowship. **APPTECH** observes this internship as being a learning opportunity for you.

In essence, your internship will embrace orientation and emphasize learning new skills with a deeper understanding of concepts through the hands-on application of the knowledge you gained as an intern. Our team is confident that you will acknowledge your obligation to perform all work assigned to you to the best of your ability within the right and reasonable direction given to you.

We're looking forward to a worthwhile and fruitful association that will help you with future projects—wishing you the most enjoyable and significant internship program experience.

Role: Jr. Front-End Developer

Duration: 4 months

Regards,

co-founder



Website

www.apptechinteractive.com



Phone

+91 - 9425758111



Email

career@apptechinteractive.com

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Sakshi Gedam

Has completed his internship at Apptech Interactive as a Fullstack Developer for 4 months (17 Jan 2025 to 17 May 2025).

19/05/2025

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co-founder