

INTERNSHIP REPORT

Web Development with HTML, CSS, and JavaScript Internship
*A Summer Internship Report submitted in partial fulfillment of the
requirements for the award of degree of*

MASTER OF COMPUTER APPLICATIONS

Submitted By

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24M11MC182



A D I T Y A
U N I V E R S I T Y

DEPARTMENT OF COMPUTER APPLICATIONS

ADITYA UNIVERSITY

A.Y. 2025-26

ADITYA UNIVERSITY

DEPARTMENT OF COMPUTER APPLICATIONS



CERTIFICATE

This is to certify that the internship report entitled "**Web Development with HTML, CSS, and JavaScript Internship**" is being submitted by **Sai Thakshitha Vankadhara - 24M11MC182** in partial fulfillment of the requirements for the award of the degree of **Master of Computer Applications** in the **Department of Computer Applications** for the academic year **2024–2025**. This report is based on the internship carried out at **ApexPlanet**, and it reflects the student's own work, conducted under our guidance and supervision.

Guide/Supervisor Name

Mrs. PRAMEELA
Assistant Professor

Head of the Department

Dr. M. VAMSIKRISHNA
Professor

DECLARATION

I hereby declare that the internship report entitled "**Web Development with HTML, CSS, and JavaScript Internship**" is a genuine and original work submitted to **Aditya University, Surampalem**, in partial fulfillment of the requirements for the award of the **Master of Computer Applications (MCA)** degree.

I further declare that this report has not been submitted, either in full or in part, for the award of any degree or diploma at this or any other educational institution.

By

Sai Thakshitha Vankadhara

(24M11MC182)

INTERNSHIP CERTIFICATE

Certificate of Completion

Web Development with HTML, CSS, and JavaScript Internship

This is to certify that

Vankadhara Sai Thakshitha

has successfully completed a virtual internship in **Web Development with HTML, CSS, and JavaScript**
from **11 April, 2025** to **26 May, 2025** at ApexPlanet Software Pvt. Ltd.



Certificate ID: **APSPL251830**

Scan the QR code to verify this certificate.


Founder & CEO,
ApexPlanet Software Pvt. Ltd.



ACKNOWLEDGEMENT

I would like to express my sincere gratitude to ApexPlanet Software Pvt. Ltd. for providing me with the valuable opportunity to undertake this 45-day Web Development Internship. This experience has significantly enhanced my technical skills and given me practical exposure to real-world software development.

I am deeply thankful to the Founder & CEO of ApexPlanet, who has created such a supportive learning environment for aspiring developers. I also extend my heartfelt thanks to the entire ApexPlanet team for their continuous guidance, encouragement, and timely feedback throughout my internship journey.

It is with immense pleasure that I express my sincere thanks to **Mr. Ritik Patidar, Assistant Professor and Internship Coordinator**, for coordinating the internship process and facilitating the smooth submission and evaluation of reports.

I am deeply grateful to **Dr. M. Vamsikrishna**, Head of the Department, for his motivation, support, and for arranging all the necessary facilities and resources for the smooth execution of my internship project.

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I am thankful to the respected leadership of Aditya University for their unconditional support and for providing world-class infrastructure and state-of-the-art laboratories. My sincere thanks to:

- **Dr. Satish Reddy N**, Pro Chancellor
- **Dr. M. Sreenivasa Reddy**, Deputy Pro Chancellor
- **Dr. MB. Srinivas**, Vice Chancellor
- **Dr. S. Rama Sree**, Pro-Vice Chancellor (Academics)
- **Dr. Ramesh A**, Pro-Vice Chancellor (Engineering & Sciences)
- **Dr. Suresh G**, Registrar
- **Dr. M. Venkata Rajesh**, Associate Dean of Academics

Lastly, I would like to thank all the **faculty members, lab technicians, non-teaching staff**, and my **friends** who directly or indirectly helped and supported me in successfully completing my internship project on time.

SUMMER INTERNSHIP ABSTRACT

This Summer Internship Program offered by ApexPlanet Software Pvt. Ltd. provided a valuable opportunity to gain hands-on experience in modern web development and front-end engineering. Throughout the internship, I explored essential areas of the web development domain, including:

- Core web technologies: HTML, CSS, and JavaScript
- Responsive design principles and UI/UX development
- DOM manipulation and interactive web components
- API integration and dynamic data handling
- Full-scale project development and performance optimization

I worked closely with development mentors and technical trainers who guided me through industry relevant tasks and real-world project workflows. The internship emphasized professional development practices such as:

- Clean code writing and documentation
- Version control and project structuring
- Responsive design with Flexbox, CSS Grid, and media queries
- JavaScript-based interactivity and feature development
- Website performance enhancement and debugging techniques

This immersive program strengthened my understanding of how modern web applications are built, tested, and optimized. Through hands-on tasks, I developed multiple projects, including dynamic to-do applications, portfolio websites, product listing pages, responsive layouts, and a final full-stack style capstone project integrating all learned concepts.

The internship also focused on building practical developer skills—such as creating GitHub repositories, presenting project demos through LinkedIn, and preparing submissions for the ApexPlanet internship portal—reflecting real-world developer workflows followed in the software industry.

Overall, this experience enhanced my technical capabilities, improved my problem-solving skills, and prepared me for future roles in frontend development and web technologies. The knowledge gained during this internship has provided a strong foundation for my career in the field of software development.

ABOUT ORGANIZATION

ApexPlanet Software Pvt. Ltd. is a dynamic and innovative technology company committed to delivering high-quality digital solutions across the web and mobile development landscape. Established with a vision to empower businesses and learners through cutting-edge technologies, ApexPlanet specializes in creating scalable, user-friendly, and future-ready web applications tailored to meet the unique requirements of clients across diverse industries.

Mission:

ApexPlanet's mission is to empower businesses and students through innovative digital solutions and practical learning experiences. The organization strives to bridge the gap between academic knowledge and real-world development by offering hands-on training in modern web technologies.

Vision:

ApexPlanet envisions becoming a leading hub for digital excellence and skill development—nurturing the next generation of developers equipped with strong technical foundations, creativity, and industry-relevant experience.

The organization follows industry best practices, ensuring that all solutions are developed using modern frameworks, efficient workflows, and the latest design principles. With a strong emphasis on quality, performance, and customer satisfaction, ApexPlanet has built a reputation for offering reliable and impactful digital services.

In addition to its development expertise, ApexPlanet is dedicated to nurturing young talent through structured internship programs. These programs are designed to provide hands-on experience, real-time project exposure, and professional guidance to aspiring developers. Interns are encouraged to explore essential industry skills such as responsive web design, JavaScript interactivity, API integration, version control, and project documentation.

ApexPlanet's mission is to foster a learning environment that helps students and young professionals grow into confident, industry-ready developers. By combining technical training with practical implementation, the company ensures that every learner gains meaningful experience aligned with current industry standards.

Through its commitment to innovation, mentorship, and high-quality development practices, ApexPlanet Software Pvt. Ltd. continues to empower individuals and organizations in the rapidly evolving world of digital technology.

KEY INITIATIVES

1. Web Development Internship Program

ApexPlanet offers a structured and industry-oriented Web Development Internship Program designed to equip students with hands-on experience in HTML, CSS, JavaScript, and modern frontend development practices. Through practical assignments, real-time projects, and expert guidance, the program helps learners build strong technical foundations and become job-ready professionals.

2. Project-Based Learning Modules

The organization follows a project-driven approach where students work on real-world tasks such as building responsive websites, developing interactive web components, integrating APIs, and creating full web applications. This approach ensures practical understanding, problem-solving improvement, and exposure to real development workflows.

3. Skill Development in Modern Web Technologies

ApexPlanet focuses on strengthening emerging technical skills by teaching responsive design, DOM manipulation, API handling, UI/UX principles, performance optimization, and version control. The goal is to prepare students for modern software development challenges and industry expectations.

4. GitHub & Professional Portfolio Training

To enhance career readiness, ApexPlanet guides students in building a professional online presence through GitHub repositories and personal web portfolios. Interns learn how to structure projects, write clean code, document their work, and showcase skills effectively to potential employers.

5. Guided Mentorship & Technical Support

The organization provides continuous mentoring from experienced developers who help interns troubleshoot errors, refine projects, and understand best coding practices. Regular reviews and feedback sessions ensure consistent improvement throughout the internship.

6. Performance Evaluation & Certification

Every intern undergoes structured assessments based on project quality, consistency, learning progress, and completion of tasks. Upon successful completion, participants receive a recognized internship certificate that validates their technical skills and hands-on experience in full-stack web development fundamentals.

SUMMER INTERNSHIP OVERVIEW

I just completed a 45-day summer internship with ApexPlanet Software Pvt. Ltd., which was an amazing, hands-on experience focused on real-world web development. The program was designed to help us build projects from the ground up while understanding how modern web technologies can be used to solve practical problems. Throughout the internship, I got the opportunity to dive deep into the fundamentals as well as advanced concepts of frontend development.

Throughout the internship, I got to work extensively on:

- ❖ Frontend development using HTML, CSS, and JavaScript
- ❖ Building responsive and user-friendly interfaces
- ❖ Learning core design principles through Flexbox, Grid, and media queries
- ❖ Creating dynamic behaviors using DOM manipulation
- ❖ Organizing code and submissions using GitHub repositories

The main objective of the internship was to transform basic concepts into fully functional, responsive, and interactive web applications. This hands-on approach helped me gain real-world experience and better understand how modern web development works in industry settings.

KEY PROJECT: Portfolio & Web Applications

The highlight of my internship was creating multiple interactive and responsive web applications, including a Personal Portfolio Website, To-Do List with Local Storage, Product Listing Page with Filters, and API-integrated mini-projects.

Some major components I developed include:

✓ **Responsive Portfolio Website:**

A complete multi-page portfolio with About Section, Projects, and Contact Sections, designed with modern layouts and mobile-friendly styling.

✓ **To-Do List / Notes App with Local Storage:**

A JavaScript-based application where users can add, edit, delete, and save tasks even after refreshing the page.

✓ **Product Listing Page:**

A dynamic interface allowing users to filter and sort products based on price, category, rating, etc.

✓ **JavaScript API Projects:**

Fetching real-time data (such as weather or jokes) and displaying it using clean UI components taught me how to work with external data sources.

PROJECT DEVELOPMENT PROCESS:

Just like professional development teams, we followed a structured process:

1. Discovery & Planning:

Understanding the requirements, sketching project structure, identifying components and organizing files.

2. Implementation:

Developing the application step-by-step using HTML, CSS, and JavaScript, and improving UI/UX through testing and feedback.

3. Optimization & Final Review:

Applying performance optimization techniques like minification, lazy loading of images, responsive layout corrections, debugging, and browser compatibility checks.

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Week 1 Report:

Week 1	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	11-04-2025	1	Introduction to HTML and Basic Web Structure
	12-04-2025	2	HTML Elements: Text, Links, Images, List
	13-04-2025	3	HTML Forms and Input Elements
	14-04-2025	4	Introduction to CSS: Selectors, Colors, Fonts
	15-04-2025	5	CSS Layouts: Box Model & FlexBox Basics
	16-04-2025	6	JavaScript Basics: Variables, Functions, Events

Overview:

Week 1 focused on building a strong foundation in web development by learning and applying basic HTML, CSS, and JavaScript concepts. I began by understanding the structure of a webpage and creating simple web pages using essential HTML tags. I then explored fundamental CSS properties to style these pages, including colors, fonts, spacing, and layout adjustments. Toward the end of the week, I worked with basic JavaScript to add simple interactivity, such as button-click events. This week gave me a clear understanding of how the three core web technologies work together to form functional web pages.

Conclusion:

The first week gave me a solid starting point in frontend development. I gained confidence in creating and styling simple web pages and learned how JavaScript adds interactivity to enhance user experience. This foundation prepared me to take on more complex tasks in the upcoming weeks.

Week 2 Report:

2nd Week	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	18-04-2025	1	Building a Contact Form(HTML+CSS)
	19-04-2025	2	JavaScript Form Validation
	20-04-2025	3	Responsive Design Using FlexBox
	21-04-2025	4	Responsive Design Using CSS Grid
	22-04-2025	5	Media Queries and Multi-Device Layouts
	23-04-2025	6	DOM Manipulation: Add/Delete Elements

Overview:

Week 2 was dedicated to strengthening my intermediate-level HTML, CSS, and JavaScript skills. I learned how to design and style structured forms with various input fields and implemented JavaScript-based form validation to ensure proper user input. I also gained hands-on experience with responsive design using FlexBox, CSS Grid, and media queries to create layouts that adapt smoothly across devices. Towards the end of the week, I began exploring JavaScript DOM manipulation by creating dynamic elements such as to-do items or gallery images.

Conclusion:

This week significantly improved my ability to build structured, interactive, and responsive web pages. I became more comfortable using JavaScript to manipulate webpage content and learned how to design interfaces that work well on multiple screen sizes. This progress provided a strong base for advanced JavaScript and interactive UI development.

Week 3 Report:

3rd Week	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	26-04-2025	1	Advanced Media Queries(Mobile-Tablet-Desktop)
	27-04-2025	2	Javascript Interactive Quiz Application
	28-04-2025	3	Image Carousel Development using JS
	29-04-2025	4	API Fetch - Weather/Jokes Api Project
	30-04-2025	5	Displaying Dynamic Data using Javascript
	02-05-2025	6	Debugging and reviewing Advanced JS tasks

Overview:

Week 3 focused on deepening my understanding of JavaScript through practical DOM manipulation tasks. I completed a fully functional To-Do List or Image Gallery where users could add and remove items dynamically. I also refined the responsiveness and visual structure of my previous designs using improved CSS techniques. The week concluded with debugging and reviewing earlier tasks to ensure my code was cleaner, more organized, and user-friendly.

Conclusion:

By the end of Week 3, I successfully built more dynamic and functional web components. I improved my problem-solving skills, strengthened my JavaScript logic, and learned how to debug and optimize my work. This week prepared me to handle more advanced projects involving API's and interactive web applications.

Week 4 Report:

4th Week	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	05-05-2025	1	Portfolio Website – Structure & Setup
	06-05-2025	2	Portfolio Website – Styling & UI/UX
	07-05-2025	3	Portfolio – Responsive Design & Animations
	08-05-2025	4	To-Do List / Notes App Using LocalStorage
	09-05-2025	5	Product Listing Page – Filters & Sorting
	10-05-2025	6	Integration & Polishing of All Project Modules

Overview:

Week 4 introduced advanced JavaScript concepts and responsive design improvements. I created a more complex JavaScript-based project, such as an interactive quiz or image carousel, allowing me to apply event handling, timers, and data manipulation. Additionally, I learned how to fetch real-time data from APIs and display it dynamically on a webpage. I also continued refining UI responsiveness, ensuring websites function smoothly across mobile, tablet, and desktop devices.

Conclusion:

This week expanded my ability to develop feature-rich, interactive websites using advanced JavaScript techniques. Working with APIs helped me understand real-world data integration, and building complex components improved my logical thinking. I felt prepared to build a complete multi-page web application in the next phase of the internship.

Week 5 Report:

5th Week	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	13-05-2025	1	Capstone Project – Planning & Architecture
	14-05-2025	2	Capstone Project – UI Development
	15-05-2025	3	Capstone – Functionality Development
	16-05-2025	4	Cross-Browser Testing (Chrome, Firefox, Safari)
	17-05-2025	5	Mobile Responsiveness & Bug Fixes
	18-05-2025	6	Performance Optimization (Minify, Lazy Load)

Overview:

Week 5 focused on implementing a complete multi-page portfolio website and developing additional functional projects using local storage. I built a personal portfolio with About, Projects, and Contact sections and ensured it was fully responsive. I also developed a localStorage-based To-Do List or Notes App to enable saving and retrieving user data. Additionally, I created a product listing page with filtering and sorting capabilities, applying both UI and logic-based concepts together.

Conclusion:

This week allowed me to apply everything I learned into larger, well-structured projects. I understood how to organize multi-page layouts, work with persistent data, and handle more complex user interactions. These projects improved both my technical skills and my ability to think like a developer, preparing me for the final capstone project.

Week 6 Report:

6th Week	DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
	21-05-2025	1	Project Polishing – UI Enhancements
	22-05-2025	2	Documentation & Code Cleanup
	23-05-2025	3	GitHub Repository Upload
	24-05-2025	4	LinkedIn Video Recording & Upload
	25-05-2025	5	Submission on ApexPlanet Portal
	26-05-2025	6	Final Review & Corrections

Overview:

Week 6 marked the final and most comprehensive phase of the internship. I worked on a full-scale capstone web application that combined all the skills learned in HTML, CSS, and JavaScript. I conducted cross-browser and cross-device testing to ensure compatibility and fixed any UI or functionality issues. I also optimized the website by minimizing files, enabling lazy loading, and reducing unnecessary requests to improve performance. The final days were spent preparing the GitHub repository, recording the LinkedIn demonstration video, and submitting all tasks through the ApexPlanet portal.

Conclusion:

The final week brought together all the knowledge and skills I had gained throughout the 45-day internship. Completing the capstone project and optimizing it helped me understand real-world development workflows and best practices. By the end of this internship, I felt confident in building responsive, interactive, and optimized web applications, marking a successful completion of my Web Development journey.

OVERALL OUTCOMES

Foundational Knowledge:

Developed a strong understanding of core web technologies including HTML, CSS, and JavaScript, along with responsive design principles, DOM manipulation, and UI/UX basics essential for modern frontend development.

Technical Skills:

Gained hands-on experience in building interactive and responsive web applications such as portfolio websites, LocalStorage-based apps, product listing pages, and JavaScript projects involving API integration and dynamic content rendering.

Project Management:

Practiced complete project workflows including planning, designing, coding, debugging, optimization, and documentation. Followed structured development steps similar to industry standards—covering ideation, implementation, testing, and final submission.

Real-World Application:

Successfully applied theoretical concepts to practical web development tasks by building functional projects that simulate real-world applications, improving problem-solving skills and technical implementation accuracy.

Professional Development:

Built a professional GitHub portfolio, created a LinkedIn project demonstration video, and learned best practices for presenting technical work. Enhanced coding habits, documentation skills, and developer tooling familiarity.

Career Advancement:

Explored career paths in frontend development, full-stack development, and UI engineering. Strengthened industry readiness by gaining practical exposure to modern web technologies and development workflows.

Impact and Reflection:

Engaged in continuous self-evaluation to identify strengths, improve coding efficiency, and enhance design quality. This internship provided clarity on future learning goals and helped build a strong foundation for a career in software development.