A
Summer Internship Report
On
"Nfab Textile"

(IT483 – Summer Internship - II)

Prepared by
Harsh Delvadiya (21IT026)

Under the Supervision of
Prof. Dhaval Patel

Submitted to

Charotar University of Science & Technology (CHARUSAT)
for the Partial Fulfillment of the Requirements for the
Degree of Bachelor of Technology (B.Tech.)
for Semester VII

Submitted at

CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Accredited with GradeA by NAAC
Accredited with GradeA+ by KCG

cspit
Chandubhai S Patel
Institute of Technology

DEPARTMENT OF COMPUTER SCIENEC & ENGINEERING
Chandubhai S. Patel Institute of Technology (CSPIT)
Faculty of Technology & Engineering (FTE), CHARUSAT
At: Changa, Dist: Anand, Pin: 388421.
July 2024

CERTIFICATE

This is to certify that the report entitled "**Nfab Textile**" is a bonafied work carried out by **Harsh Delvadiya (21IT026)** under the guidance and supervision of **Prof. Dhaval Patel** for the subject **Summer Internship – II (IT483)** of 7th Semester of Bachelor of Technology in **Computer Science & Engineering** at Chandubhai S. Patel Institute of Technology (CSPIT), Faculty of Technology & Engineering (FTE) – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred by the examiner(s).

Under the supervision of,

D. M. Ghetiya

Prof. Dhaval Patel
Assistant Professor
Dept. of Information & Technology
CSPIT, FTE, CHARUSAT, Changa, Gujarat

Mr. D.M. Ghetiya
CEO&Founder
Techiebutler

Dr. Parth Shah
Head - Department of Information and Technology
CSPIT, FTE, CHARUSAT, Changa, Gujarat.

Chandubhai S. Patel Institute of Technology (CSPIT)

Faculty of Technology & Engineering (FTE), CHARUSAT

At: Changa, Ta. Petlad, Dist. Anand, Pin: 388421. Gujarat.

Date: 15/06/2024

<u>**Internship Completion Letter**</u>

Dear Mr. Harsh Delvadiya

We are pleased to inform you that you have successfully completed your 6-week internship with us at Techiebutler in the field of App Development. Your internship started on 15th May 2024 and ended on 15th June 2023.

During your time with us, you have demonstrated a strong work ethic, a willingness to learn, and a positive attitude. Your contributions have been valuable, and we appreciate your dedication to your work.

Throughout your internship, you have gained valuable experience and knowledge in your chosen field. We hope that your time with us has been rewarding and has helped you in your career goals.

We wish you all the best in your future endeavors.

Thank You,

D. M. Chetiya

For **Techiebutler**

_____
Authorized Signatory

Table of Contents

LIST OF FIGURES

List of Tables

ACKNOWLEDGMENT

I am deeply grateful to Chandubhai S. Patel Institute of Technology (CSPIT) for granting me the opportunity to pursue this internship in Techiebutler. The knowledge gained from my academic journey provided a robust foundation, and this internship has significantly enhanced my practical skills, preparing me for professionalgrowth.

I extend sincere thanks to D.M. Ghetiya for accepting me as an intern and providing invaluable guidance and support throughout the project. Special appreciation goes to D.M. Ghetiya for their mentorship and insightful advice, which greatly contributed to my understanding of Project development.

I want to acknowledge the collaborative spirit and support from my colleagues at Techiebutler. Their teamwork and assistance created a positive work atmosphere and contributed significantly to the success of our projects. Learning from their experiences has been invaluable to my development.

Lastly, I express heartfelt gratitude to my family for their unwavering love, support, and belief in my abilities. Their encouragement has been a constant motivation, both during my academic journey and throughout this internship.

ABSTRACT

This internship report offers a comprehensive overview of the author's stint as a Software Developer intern at Techiebutler, spanning 4 weeks. Situated in a vibrant environment conducive to learning, Techiebutler provided extensive training in development, focusing on essential technologies like CSS, HTML, and JavaScript. Practical sessions and hands-on projects were pivotal in enhancing the intern's problem-solving abilities and deepening their understanding of industry- standard practices.

Key emphasis throughout the report is placed on the intern's project experiences.These projects were designed to bridge theory with practical application, showcasing the intern's technical growth and adaptability in a professional software development setting. Each project's objectives, technical intricacies, and the intern's contributions are detailed, underscoring their progression in technical proficiency and ability to tackle real-world challenges effectively.

In conclusion, the report underscores the internship's pivotal role in preparing the intern for future endeavors as a skilled Software Developer. It reflects on the invaluable lessons learned, practical skills honed, and mentorship received at Techiebutler, shaping a rewarding and enriching learning journey that significantly contributed to the intern's professional growth.
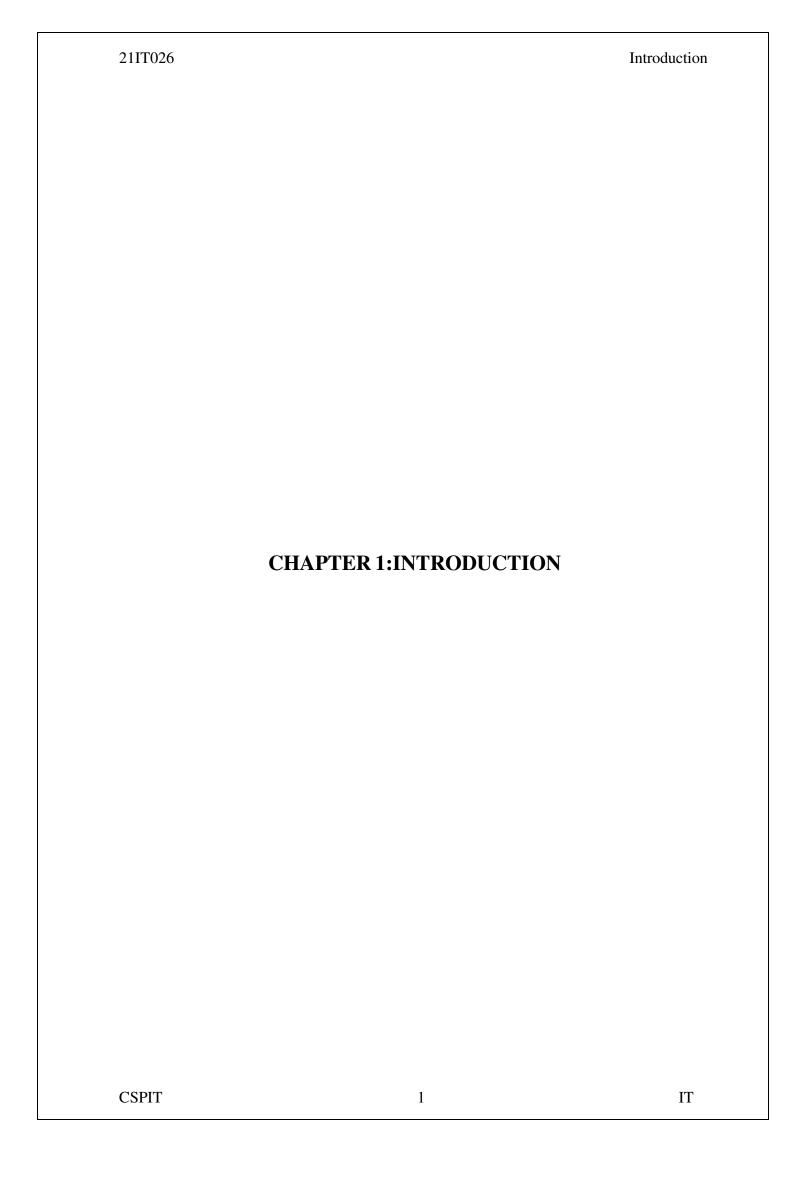
DESCRIPTION OF COMPANY/ORGANISATION

Techiebutler is a forward-thinking IT services company committed to leveraging technology for business transformation. With a focus on delivering cutting-edge solutions, Techiebutler brings together a team of seasoned developers, designers, and digital marketing specialists. This collaborative effort ensures a deep understanding of client requirements and business objectives, enabling the creation of bespoke solutions that align precisely with client needs.

At Techiebutler, our approach to development is structured and efficient. Beginning with ideation and requirement analysis, we ensure clarity and alignment with client goals. Our design phase emphasizes user-friendly interface sand intuitive systems that enhance operational efficiency. Development follows with meticulous coding based on established blueprints, ensuring accuracy and functionality.

Quality assurance is paramount at Techiebutler. Rigorous testing procedures simulate end-user scenarios to identify and resolve issues proactively, supported by automated deployment for swift implementation. ensuring our solutions evolve with client needs.

CHAPTER 1:INTRODUCTION

1.1   INTERNSHIP OBJECTIVES

The primary goal of this internship was to acquire hands-on experience and advance skills in software development. It aimed to translate theoretical knowledge into practical applications, deepen comprehension of the software development lifecycle, and grasp principles of user interface design specific to environments. The internship also focused on mastering industry-standard tools, technologies, and methodologies essential for web and application development using frameworks.

Moreover, the internship aimed to cultivate collaboration and teamwork skills within a professional setting. It provided exposure to effective communication strategies, project management methodologies, and problem-solving techniques, offering insights into workflow dynamics, decision-making processes, and emerging trends within the industry. Ultimately, the objective was to gain valuable practical experience, broaden technical proficiency, and enhance professional competencies in development, thereby bridging the gap between academic knowledge and its real-world application.

1.2 Overview of Internship Activities

	Date	Name of Topic/Module/Task
Week 1	15-05-24	Introduction to the company.
	16-05-24	Started HTML
	17-05-24	Learned about attributes
	20-05-24	Learned about styles, link
	21-05-24	Practice on topics
Week 2	22-05-24	Started Java Script
	23-05 -24	Learned functions, objects, event
	24-05-24	Learned string and array
	27-05-24	Learned loop
	28-05-24	Learned constructors, methods
Week 3	29-05-24	Learned DOM elements & HTML
	30-05-24	Learned DOM Events & Event Listeners
	31-05-24	Learned JS Screen & Location
	03-06-24	Learned JS Navigator & pop-up alert
Week 4	05-06-24	Started CSS
	06-06-24	Learned padding, box model, position
	07-06-24	Learned navigation bar, dropdown, gallery, forms
	10-06-24	Learned website layout, pseudo-elements

	11-06-24	Developed client website
Week 5	12-06-24	Developed portfolio
	13-06-24	Developed Landing Page
	14-06-24	Started report

CHAPTER 2:Tools and Technologies

2.1 INTRODUCTION TO HTML:

HTML, or Hyper Text Markup Language, is the standard markup language used to create web pages. It's a combination of Hypertext, which defines the link between web pages, and Markup language, which is used to define the text document within tags to structure web pages. This language is used to annotate text so that machines can understand and manipulate it accordingly. HTML is human-readable and uses tags to define what manipulation has to be done on the text.

2.2 INTRODUCTION TO CSS:

CSS (Cascading Style Sheets) is a language designed to simplify the process of making web pages presentable. It allows you to apply styles to HTML documents, describing how a webpage should look by prescribing colors, fonts, spacing, and positioning. CSS provides developers and designers with powerful control over the presentation of HTML elements.

 HTML uses tags and CSS uses rulesets. CSS styles are applied to the HTML element using selectors. CSS is easy to learn and understand, but it provides powerful control over the presentation of an HTML document.

2.3 INTRODUCTION TO JAVA SCRIPT:

JavaScript is a lightweight, cross-platform, single-threaded, and interpreted compiled programming language which is also known as the scripting language for webpages. It is well-known for the development of web pages, and many non-browser environments also use it. JavaScript is a weakly typed language(dynamically typed). JavaScript can be used for Client-side developments as well as Server-side developments. JavaScript is both an imperative and declarative type of language. JavaScript contains a standard library of objects, like Array, Date, and Math, and a core set of language elements like operators, control structures, and statements.

     Client-side: It supplies objects to control a browser and its Document Object Model (DOM). Like if client-side extensions allow an application to place elements on an HTML form and respond to user events such as mouse clicks, form input, and page navigation. Useful libraries for the client side are AngularJS, ReactJS and so many others.

Server-side: It supplies objects relevant to running JavaScript on a server. For if the server-side extensions allow an application to communicate with a database, and provide continuity of information from one invocation to another of the application, or perform file manipulations on a server. The useful framework which is the most famous these days is node.js.

2.4 HARDWARE REQUIREMENTS:

- Min. 2 GB RAM
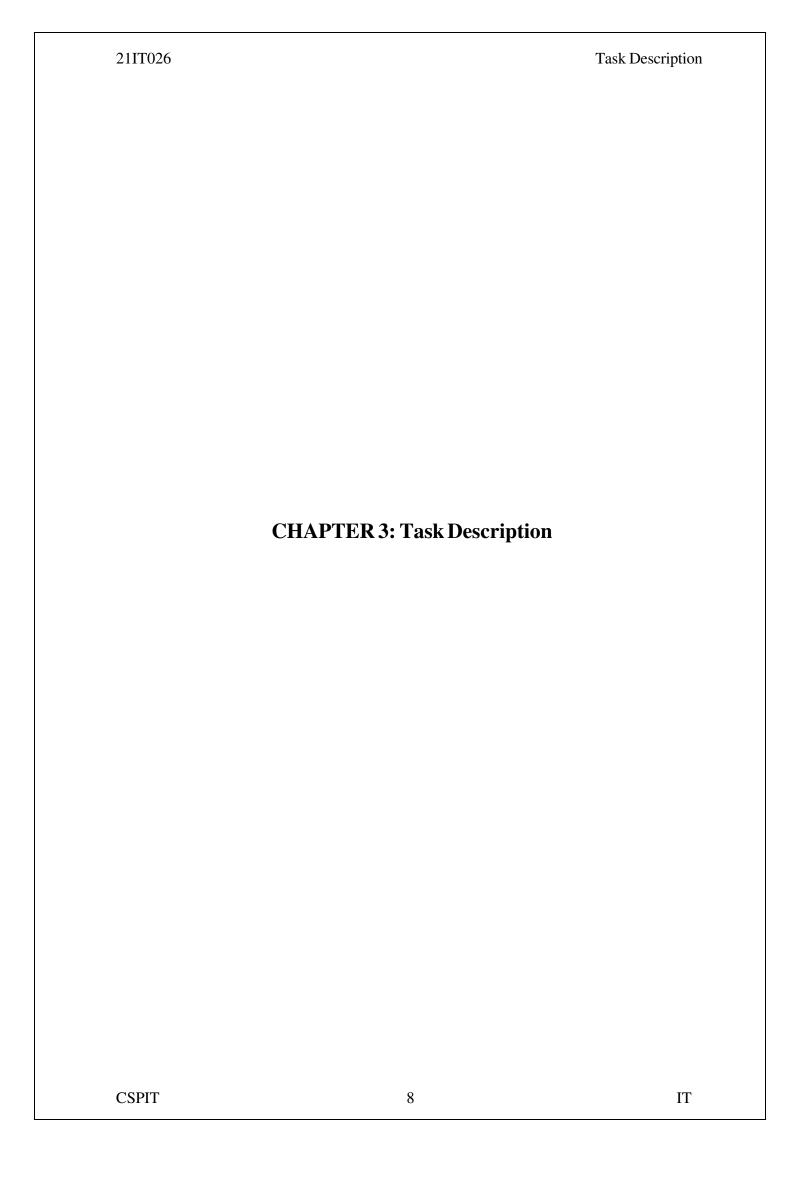- Min. 50 GB HDD
- Processor: i3 or Higher

2.5 SOFTWARE REQUIREMENTS:

- Operating System: Windows 7 or Higher

- Visual Studio Code

- Programming Language: HTML, CSS, JS

CHAPTER 3: Task Description

3.1 TASK 1 :

Task-1	
Task Description	Learn Html and Css concept in which I learnt about element, attribute, styles, layout, math functions, etc.

Table 3.1

3.2 TASK 2 :

Task-2	
Task Description	Learn Java Script language in which I learnt about many new concept like Array, Date, and Math, and a core set of language elements like operators, control structures, and statements, DOM concepts.

Table 3.2

3.3 TASK 3 :

Task-3	
Task Description	Create an API for creating a product for a particular client.
Output Screenshots	Figure 3.1 sales

Figure 3.2 dashboard

Table 3.3

3.4 TASK 4:

Task 4
Task Description	Build a Landing page using HTML, Css and Js.

| **Output Screenshots** |

Figure 3.3 landing page

Figure 3.4 rating page |

Table 3.4

CHAPTER 4:Learning Experiences
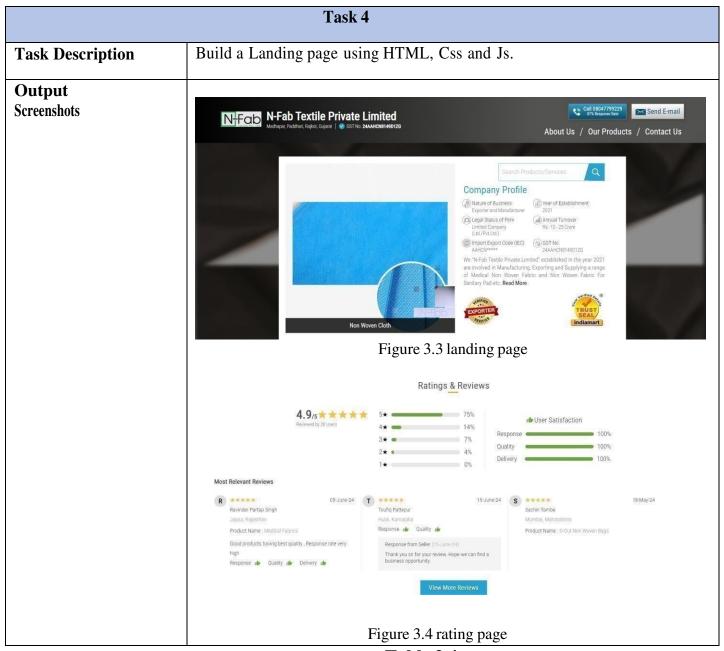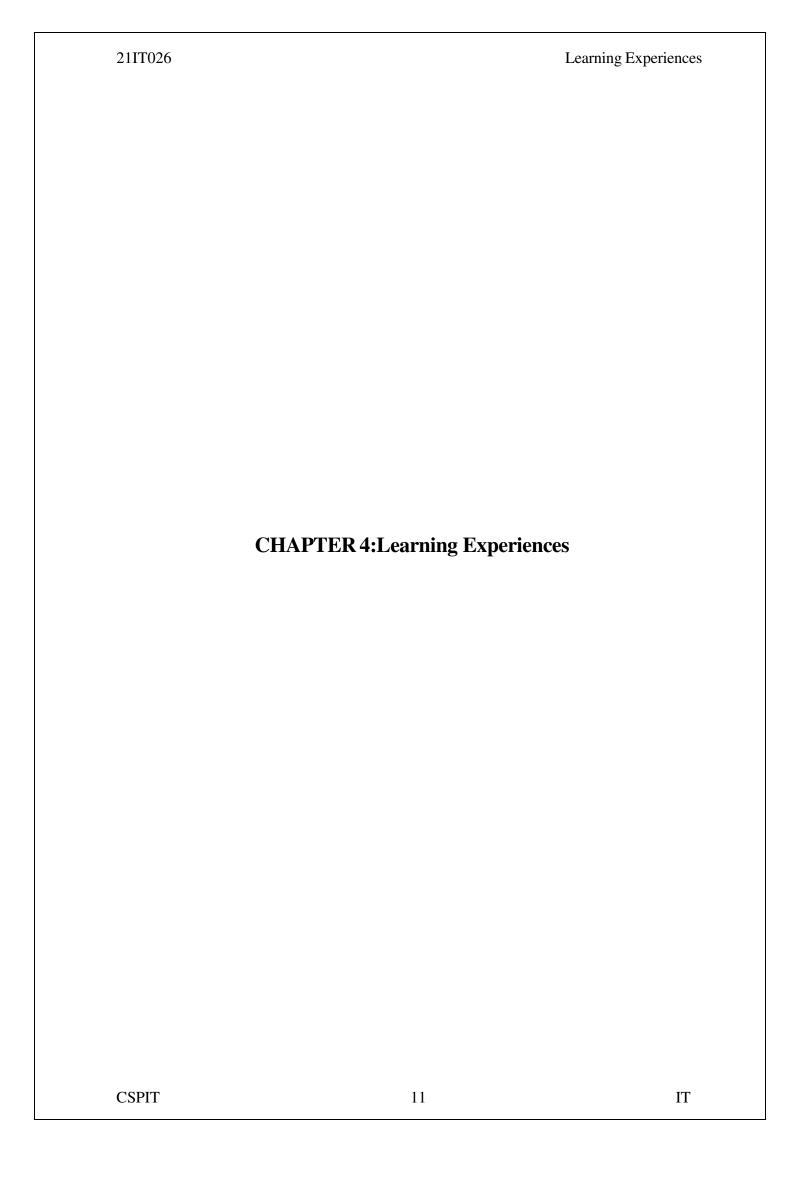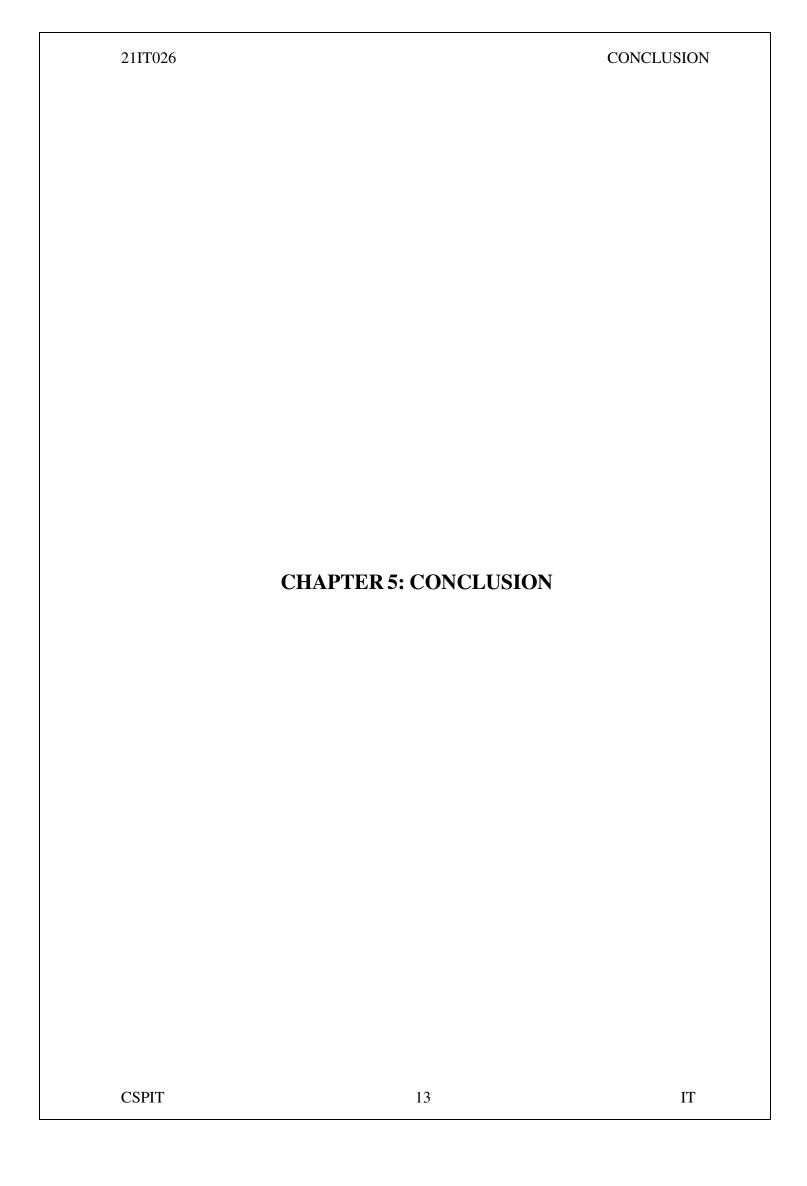
4.1 Knowledge Acquired/Skills Learnt

• Proficiency in JavaScript: You will have a strong understanding of the JavaScript programming language, including its syntax, data types, control structures, functions, and object-oriented programming concepts.

• Front-end Development: You will have experience in building interactive and dynamic web pages using JavaScript, HTML, and CSS. You will be familiar with manipulating the Document Object Model (DOM) to modify and update web page elements dynamically.

• JavaScript Frameworks and Libraries: You may have gained knowledge in popular JavaScript frameworks and libraries such as React, Angular, or Vue.js. These frameworks provide efficient ways to develop complex web applications and enhance your understanding of component-based architecture.

• Debugging and Testing: You will have learned how to use debugging tools and techniques to identify and fix errors in JavaScript code.

4.2 Realtime Applicability of Technologies Learnt

• Single-Page Applications (SPAs): Use HTML for content structure, CSS for styling, and JavaScript frameworks like React or Angular for dynamic content updates without page reloads.

• Real-Time Communication: HTML structures chat interfaces, CSS ensures responsive design, and JavaScript with WebSockets enables real-time messaging and notifications.

• Data Visualization: HTML creates containers for charts, CSS styles visual components, and JavaScript libraries like D3.js fetch and display real-time data interactively.

• Games: HTML sets up the game canvas, CSS manages layout and effects, and JavaScript handles game logic and real-time interactions using HTML5 canvas.

• Progressive Web Apps (PWAs): HTML defines content structure, CSS provides a consistent look across devices, and JavaScript implements offline capabilities, push notifications, and real-time data updates.

CHAPTER 5: CONCLUSION

5.1 Conclusion :

Upon completing an internship focused on HTML, CSS, and JavaScript, the intern gained invaluable experience and knowledge. Throughout the internship, theoretical concepts were effectively applied to practical scenarios. Looking ahead, the skills and knowledge acquired during this internship will enable the intern to take on more complex web development projects. Overall, this internship has been a rewarding journey, providing the intern with the confidence and competence to pursue a successful career in web development. The intern is eager to continue learning and refining their skills while contributing to the creation of impactful and innovative web experiences.

References:

Web references:
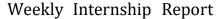- HTML Tutorial (w3schools.com)
- CSS Tutorial (w3schools.com)

Books :

Eloquent JavaScript, 3rd Edition: A Modern Introduction to Programming [8]. HTML & CSS: Design and Build Web Sites by Jon Duckett

Student ID: <u>21IT026</u>

Student Name: <u>Harsh Delvadiya</u>

Sem.: <u>7th</u>

Type of Internship: <u>Web Development</u>

Week No.: <u>1</u> from: <u>15/5/24</u> to <u>21/5/24</u>

Working Hours / week: <u>Flexible</u>

Company Name: <u>Techiebutler</u>

Technology worked on: <u>HTML,CSS,JS</u>

Describe your principle assignments and responsibilities for this period.

- Attended orientation and onboarding sessions.
- Familiarized myself with company policies and procedures.
- Completed initial training on HTML, CSS, and JavaScript.

What experiences were particularly rewarding during this report period?

- Successfully understanding the basic structure of HTML and CSS, and creating my first webpage layout.

What experiences were particularly difficult during this report period?

- Adjusting to the new work environment and understanding the basics of CSS positioning and layouts.

Describe principal tasks and duties to be performed and accomplishments during the upcoming week.

- Improve understanding of CSS Flexbox and Grid layouts.
- Begin working on interactivity using JavaScript
- Next week, I will develop basic calculator using html, css and js..

Learning Outcomes: (in brief)

- Gained a basic understanding of HTML structure and elements.
- Learned CSS styling and layout techniques.
- Introduced to JavaScript syntax and basic functions.

Signature of Internal Guide

Signature of External Guide

Student ID: <u>21IT026</u>   Student Name: <u>Harsh Delvadiya</u>

Sem.: <u>7th</u>   Type of Internship: <u>Web Development</u>

Week No.: <u>2</u> from: <u>22/5/24</u> to <u>28/5/24</u>   Working Hours / week: <u>Flexible</u>

Company Name: <u>Techiebutler</u>   Technology worked on: <u>HTML,CSS,JS</u>

Describe your principle assignments and responsibilities for this period.

- Completed assigned tasks on webpage layout using CSS Grid and Flexbox.
- Attended meetings with the web development team.
- Conducted research on best practices for responsive design.

What experiences were particularly rewarding during this report period?

- Successfully implementing responsive design techniques and seeing the webpage adjust smoothly to different screen sizes.

What experiences were particularly difficult during this report period?

- Managing time effectively to meet deadlines and understanding complex aspects of responsive design.

Describe principal tasks and duties to be performed and accomplishments during the upcoming week.

Start implementing JavaScript for DOM manipulation.
Enhance time management skills.
Next week, I will develop my portfolio.

Learning Outcomes: (in brief)

Advanced CSS layout techniques using Flexbox and Grid.
Basic principles of responsive web design.

Signature of Internal Guide   Signature of External Guide

Student ID: <u>21IT026</u>   Student Name: <u>Harsh Delvadiya</u>

Sem.: 7th   Type of Internship: <u>Web Development</u>

Week No.:<u>3</u>   from: <u>29/5/24</u> to <u>4/6/24</u>   Working Hours / week: <u>Flexible</u>

Company Name: <u>Techiebutler</u>   Technology worked on: <u>HTML,CSS,JS</u>

Describe your principle assignments and responsibilities for this period.

> Collaborated with team members on interactive webpage features.
> Assisted in preparing interactive elements using JavaScript.

What experiences were particularly rewarding during this report period?

- Successfully creating interactive elements on the webpage using JavaScript.

What experiences were particularly difficult during this report period?

- Balancing multiple tasks simultaneously and overcoming technical difficulties with JavaScript code.

Describe principal tasks and duties to be performed and accomplishments during the upcoming week.

> Enhance multitasking abilities.
> Continue improving JavaScript proficiency.
> Next week, I will develop landing page.

Learning Outcomes: (in brief)

> JavaScript DOM manipulation and event handling.
> Improved teamwork and collaboration skills.

Signature of Internal Guide   Signature of External Guide

Student ID: <u>21IT026</u>   Student Name: <u>Harsh Delvadiya</u>

Sem.: <u>7th</u>   Type of Internship: <u>Web Development</u>

Week No.: <u>4</u> from: <u>5/6/24</u> to <u>11/6/24</u> Working Hours / week: <u>Flexible</u>

Company Name: <u>Techiebutler</u>   Technology worked on: <u>HTML,CSS,JS</u>

Describe your principle assignments and responsibilities for this period.

Completed a major milestone in the interactive web project.
Presented findings and progress to the development team.

What experiences were particularly rewarding during this report period?

- Successfully presenting findings and receiving positive feedback from the team.

What experiences were particularly difficult during this report period?

- Ensuring accuracy in JavaScript code implementation and addressing constructive feedback effectively.

Describe principal tasks and duties to be performed and accomplishments during the upcoming week.

Refine JavaScript coding techniques.
Implement feedback to improve project outcomes.
Next week, I will create presentation regarding internship task.

Learning Outcomes: (in brief)

Advanced JavaScript functions and techniques.
Presentation and public speaking skills.
Analytical skills through project evaluation and feedback.

Signature of Internal Guide   Signature of External Guide

Student ID: 21IT026　　　　　　　　Student Name: Harsh Delvadiya

Sem.: 7th　　　　　　　　　　　　Type of Internship: Web Development

Week No.: 5　from: 12/6/24　to 14/6/24　　Working Hours / week: Flexible

Company Name: Techiebutler　　　　　Technology worked on: HTML,CSS,JS

Describe your principle assignments and responsibilities for this period.

> Finalized contributions to the interactive web project.
> Conducted a review and reflection on internship progress.
> Prepared a final presentation summarizing internship achievements.

What experiences were particularly rewarding during this report period?

- Successfully summarizing and presenting the internship work effectively to the team.

What experiences were particularly difficult during this report period?

- Summarizing a month's worth of work concisely and identifying areas for further improvement.

Describe principal tasks and duties to be performed and accomplishments during the upcoming week.

- Finalize and present the internship summary.

Learning Outcomes: (in brief)

> Summarizing and presenting work effectively.
> Reflective practice and self-assessment.

Signature of Internal Guide　　　　　　　　　　　Signature of External Guide