UNIVERSITY SCHOOL OF INFORMATION COMMUNICATION AND TECHNOLOGY

Summer Internship Project Report

WEB DEVELOPMENT

Undertaken at

CodSoft

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Course: Bachelor of Technology
Branch: Information Technology

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Declaration

I, Harshil Gupta, a student of Information Technology, in University School of Information, Communication & Technology, Dwarka hereby declare that the work presented in this project in CodSoft was undertaken from August 2023 - September 2023 .

The matter embodied in this project report has not been submitted by me or anybody else to any institution for award of any other degree or diploma except to University School of Information, Communication & Technology, for the fulfillment of the requirements for the award of degree of Bachelors of Technology.

Harshil Gupta
03916401521

Acknowledgement

I wish to express my sincere thanks and deep sense of gratitude to my project guide, Isha Gupta, Software Engineer , for her consistent encouragement and valuable guidance offered to me from time to time in order to rectify my errors and bring professionalism in my project. She also helped me in understanding the concepts of Web Development through this project.

I also take this opportunity to thank all the faculty of USIC&T for their support and their wisdom imparted to me.

I would like to thank my parents, family, and friends for bearing with me throughout the course of the internship and for the opportunity they provided me in undergoing this internship in such a prestigious institution.

Organization Profile

CodSoft are IT services and IT consultancy that specializes in creating innovative solutions for businesses. They are passionate about technology and believe in the power of software to transform the world. Their internship program is just one of the ways in which we are investing in the future of the industry.

At **CodSoft**, they believe practical knowledge is the key to success in the tech industry. Their aim is to help students lacking basic skills by offering hands-on learning through live projects and real-world examples. Their team consists of industry experts who are dedicated to equipping interns with the knowledge and skills needed to succeed in their careers. Their foster an inclusive and supportive environment that encourages learning, growth, and creativity.

Overview

Web development involves creating websites or web applications using a combination of programming languages, frameworks, and tools. It encompasses both front-end and back-end development.This project is developed using CSS, HTML and JavaScript to build different applications. We build, test and deploy different applications and design the web pages for them.

Here, we have mainly used 3 Tech stacks for this project namely,
1. **HTML** for structure.
2. **CSS** for styling.
3. **JavaScript** for the calculator's logic and interactivity.

Rest work i.e. from design of web page to deployment to upload and maintenance is done by using different techniques as provided below.

Introduction to Project

This project report outlines the development of three distinct web projects: a Landing Page, a Portfolio Website, and a Calculator. The aim was to showcase proficiency in various aspects of web development, including front-end design, user experience, interactivity, and back-end functionality where necessary.

Project Details:

1. **Landing Page**:
A landing page is an ideal web development project for beginners. It requires basic knowledge of HTML and CSS. This project helps in achieving responsiveness across various screen sizes required meticulous CSS media queries and also optimizing images and code for faster load times involved compression techniques and code minification.
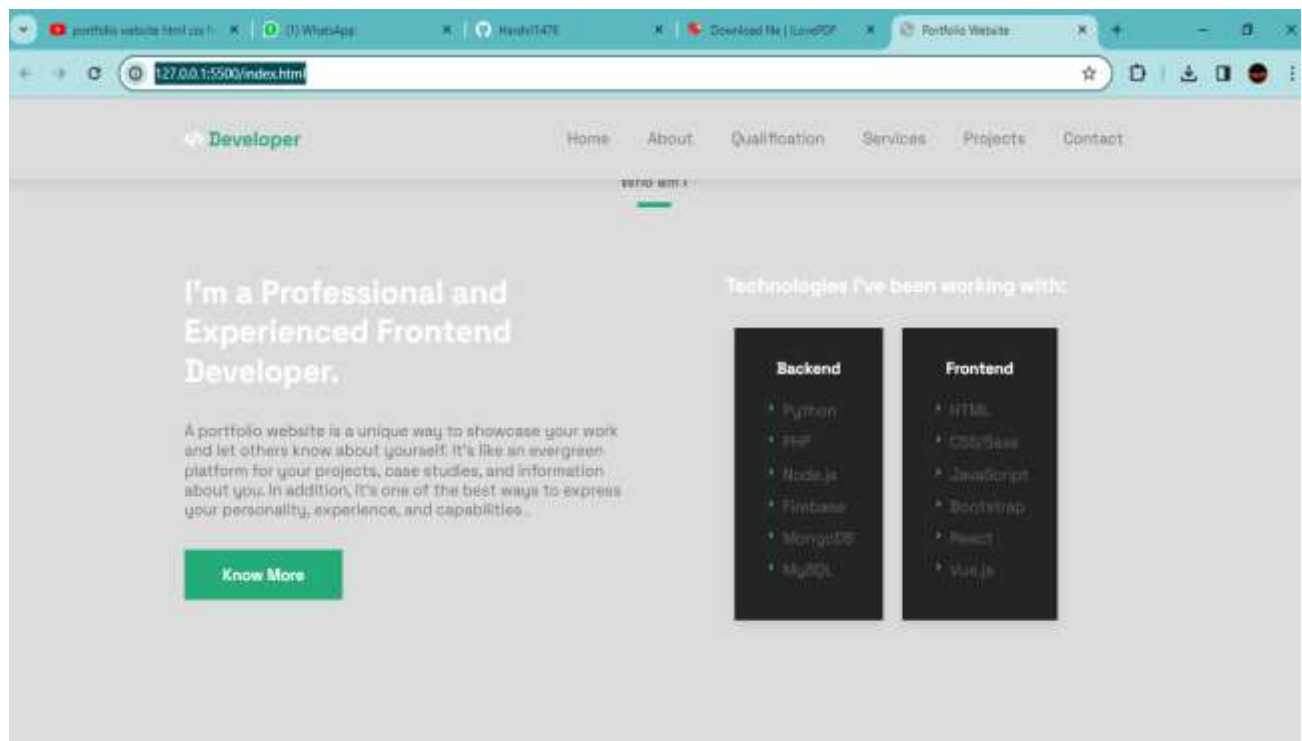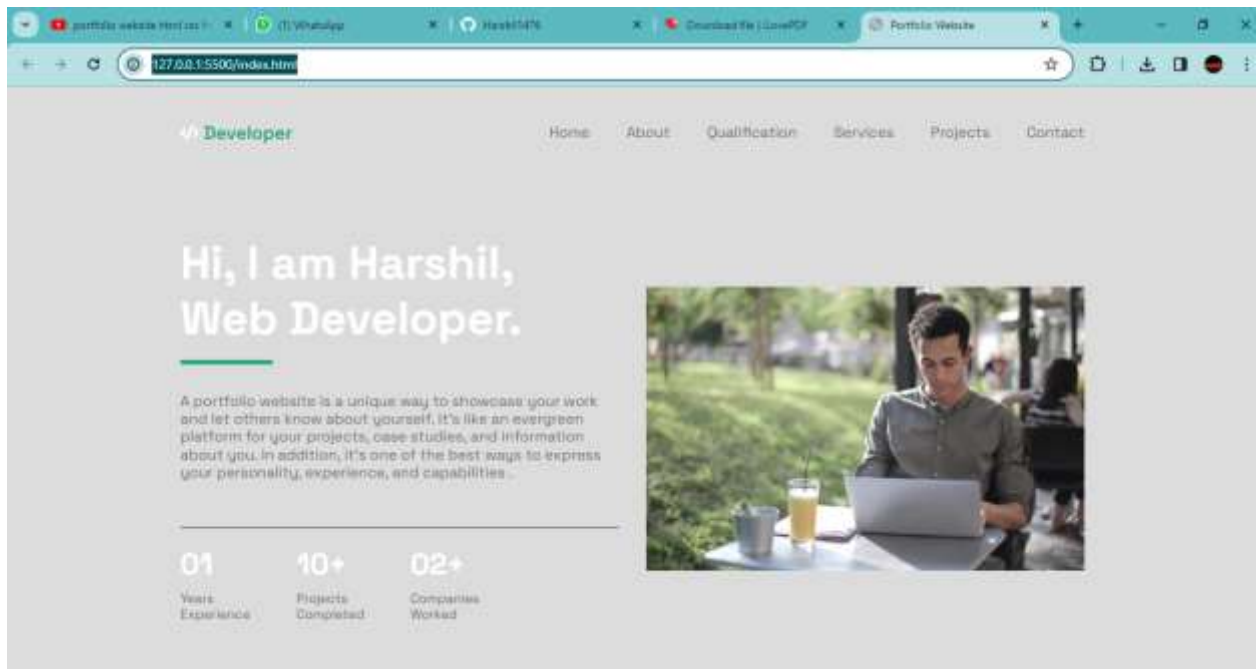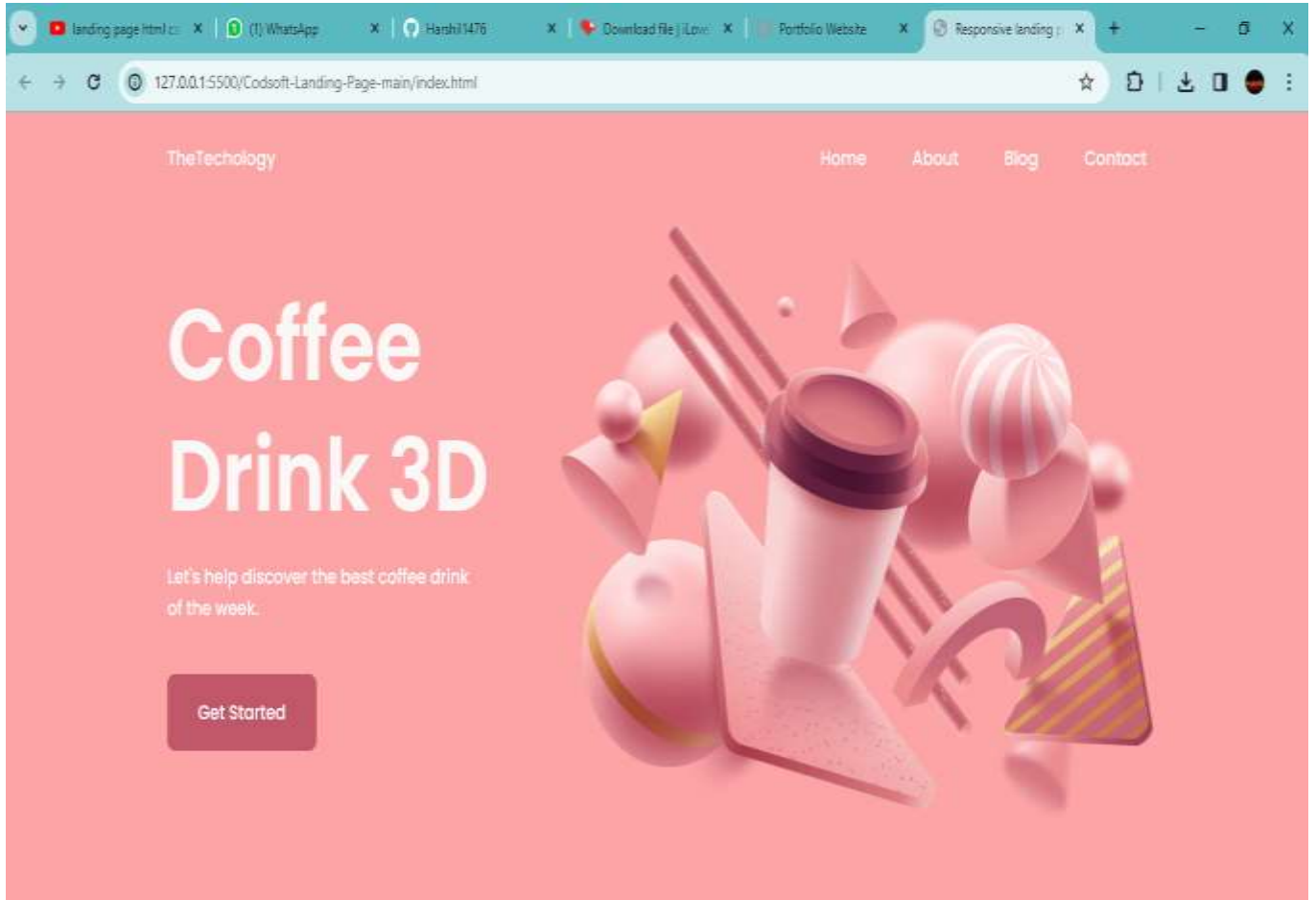

2. **Portfolio Website**:
Creating a personal portfolio using CSS and HTML is a popular beginner web development project. This project helps in implementing a dynamic and visually appealing layout required leveraging JavaScript frameworks for enhanced interactivity and animations and
Ensuring a balance between aesthetics and usability was achieved through iterative design and testing phases.
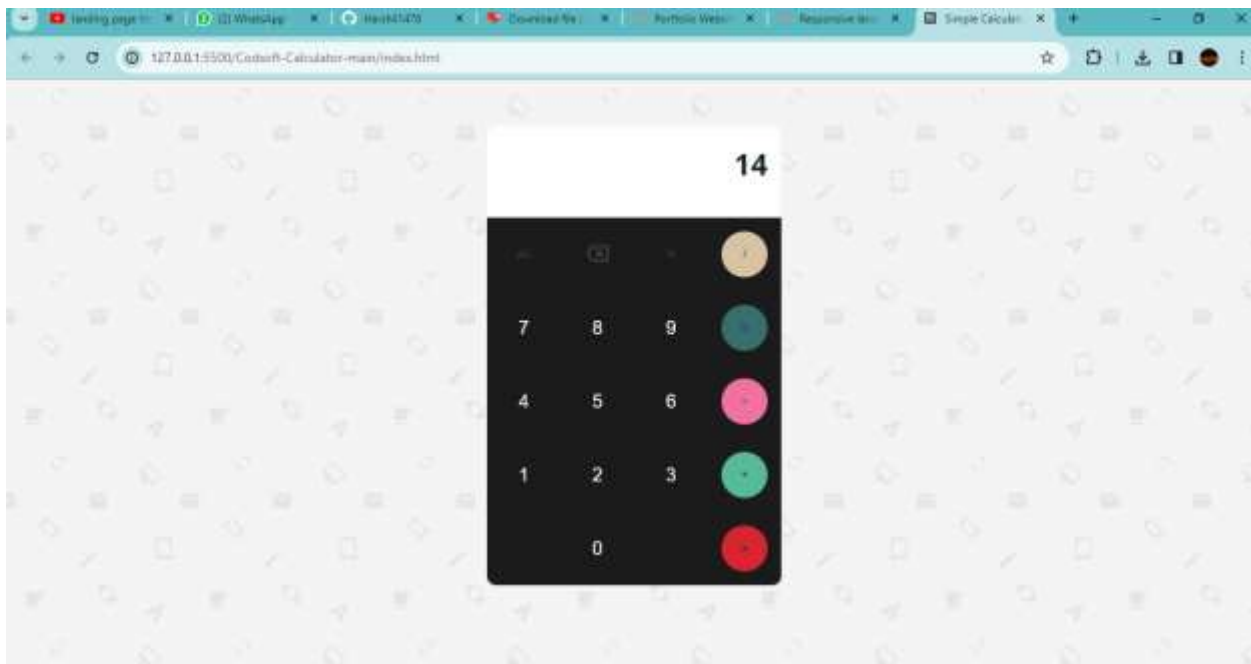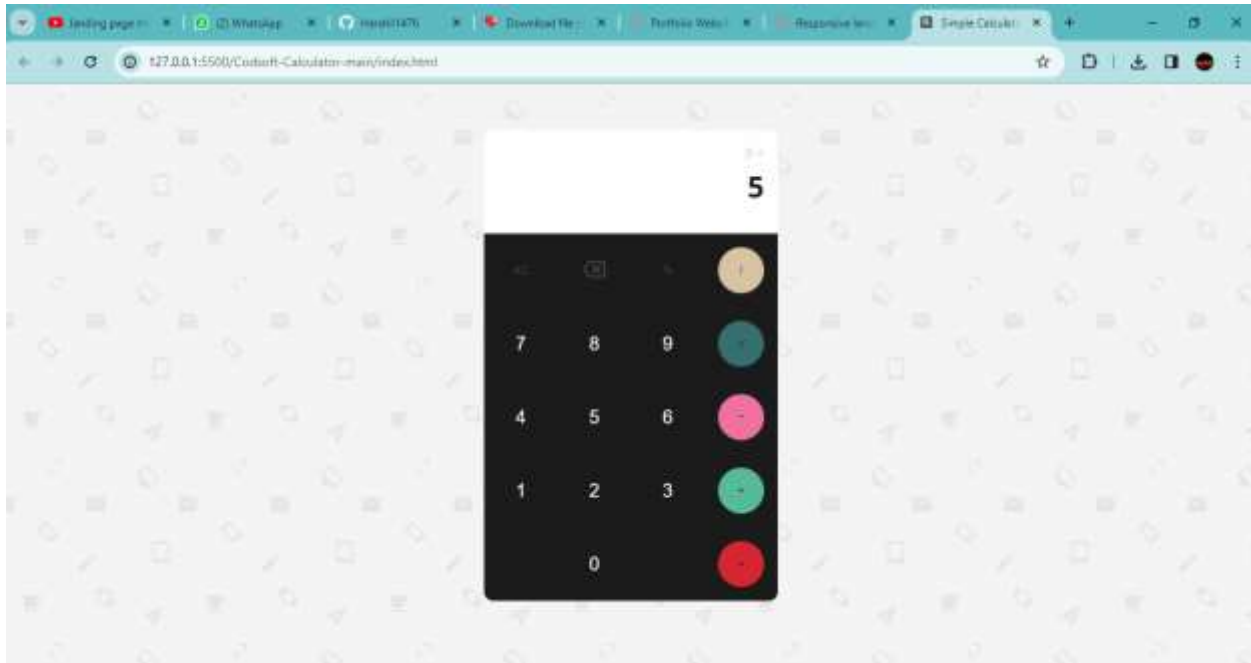

3. **Calculator**:
Build a functional calculator for performing mathematical operations using HTML, CSS, JavaScript. This project helps in ensuring accurate mathematical calculations and handling edge cases required careful JavaScript logic implementation and implementing user-friendly error handling for incorrect inputs involved thorough validation checks and informative error messages.

Screenshots

Sample of Code

```html
 9        <link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;600;700&display=swap" rel="styl
10        <link rel="icon" href="outline_calculate_black_36dp.png">
11        <link href="https://fonts.googleapis.com/css?family=Material+Icons|Material+Icons+Outlined|Material+Ico
12    </head>
13    <body>
14        <div class="container ">
15            <div class="small-container display">
16                <div  id="calculation"></div>
17                <div  id="output"></div>
18            </div>
19            <div class="small-container numpad">
20                <div class="row">
21                    <button data-clear class="operator row-1" id="clear">AC</button>
22                    <button data-delete class="operator row-1" id="back"><i class="material-icons-outlined">bac
23                    <button data-operation class="operator row-1" id="%">%</button>
24                    <button data-operation class="operator devide" id="/">&#47;</button>
25                </div>
26                <div class="row">
27                    <button data-number class="number">7</button>
28                    <button data-number class="number">8</button>
29                    <button data-number class="number" >9</button>
30                    <button data-operation class="operator mul" id='*'>&#10005;</button>
31                </div>
32                <div class="row">
33                    <button data-number class="number" >4</button>
34                    <button data-number class="number" >5</button>
35                    <button data-number class="number" >6</button>
36                    <button data-operation class="operator minus" id='-'>&#8722;</button>
37                </div>
38                <div class="row">
39                    <button data-number class="number" >1</button>
40                    <button data-number class="number" >2</button>
```

Code Repository:
https://github.com/Harshil1476

Conclusion

Through this program I was able to learn new technologies and implement them to make   project that can be extended further for business purposes. The training in doing this Internship Project gave me a head start in my journey of learning and working with the latest technologies.

The main objective behind pursuing this internship was to understand the practical approach to Web Development, implement and make a project based on the skills I learnt to gain hands-on experience with these technologies.

Bibliography

https://youtu.be/BsDoLVMnmZs?si=moAsBYyuvjkKN3GN

https://youtu.be/TXCj39dGLlY?si=0KCN9kZu-sLLEmoW

https://youtu.be/Edsxf_NBFrw?si=HWUmwHmftQQ29OfR

https://youtu.be/W6NZfCO5SIk?si=lACKqV4LliIs1zpm

https://youtu.be/hZjLA45S8G8?si=RriIAQCyyKdC_CMf

https://youtu.be/RroDdybvu5s?si=qifBtL56GdU4Sexq

C.ID: a0df05a

CodSoft

CERTIFICATE

OF COMPLETION
PROUDLY PRESENTED TO

Harshil Gupta

has successfully completed 4 weeks of a virtual internship program in
Web Development
with wonderful remarks at **CODSOFT** from **10/08/2023 to 10/09/2023**.

We were truly amazed by his/her showcased skills and invaluable contributions to the tasks and projects throughout the internship.

Founder

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