

UNIVERSITY SCHOOL OF INFORMATION COMMUNICATION AND TECHNOLOGY

**Summer Internship Project Report**

C++ PROGRAMMING

Undertaken at

Name: Ayush Rawat Roll No.: 00716403221

Course: Bachelor of Technology Branch: Computer Science



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I, Ayush Rawat, a student of Computer Science, 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.

Ayush Rawat 00716403221



I would like to express my sincere gratitude to everyone who contributed to my successful completion of the C++ internship at CodSoft.

Firstly, I would like to extend my deepest thanks to Codsoft for offering me this valuable internship opportunity. Their guidance, support, and encouragement throughout the program were invaluable. They helped me improve my skills and knowledge significantly.

It has been the most rewarding and motivational experience for me. It has truly been a transformative experience.

The projects I've worked on during this internship have been instrumental in reaching my goal of successfully completing this journey. The challenges I've faced during my internship have helped me develop problem-solving skills, resilience, and a strong work ethic.

These invaluable experiences have not only enriched my professional growth but have also left me feeling well-prepared to excel in both my career and personal pursuits moving forward.

Finally, I am deeply grateful to my family and friends for their unwavering support and encouragement. Their belief in me helped me stay motivated and focused throughout the internship.

Thank you to everyone who made this internship a truly enriching and unforgettable experience.





**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.



C++ programming stands as a versatile and influential language renowned for its efficiency, flexibility, and wide-ranging applications. Originating as an extension of the C language, C++ incorporates key features like Object Oriented Programming (OOP) principles, enabling developers to create modular, reusable code structures. Known for its robust performance, C++ is often the language of choice for system-level programming, game development, and high-performance applications. The inclusion of the Standard Template Library (STL) further amplifies C++'s capabilities, providing a rich set of pre-built classes and functions that enhance productivity.

During the internship period, I was provided with three projects. It was to be created using C++ and had to be submitted within a month.



This project report outlines the implementation of three different C++ projects: Calculator and Number Guesser, a Movie Ticket Booking System, and Institute Management system. The aim was to showcase proficiency in implementation of codes in C++ language and using file handling.

Project Details:

# Calculator and Number Guesser:

A simple calculator was made in this which allows us to perform different operations on numbers in runtime. Number Guesser was another program in which a number is randomly taken and we have to guess that number in minimum possible tries. These projects were given to check basic C++ knowledge.

# Movie Ticket Booking system:

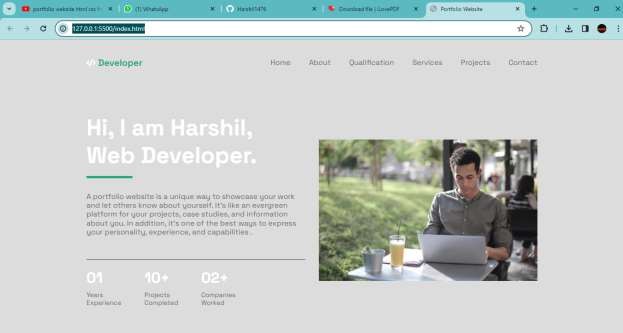
Creating a personal portfolio using CSS and HTML is a popular beginner web development project. This project helps in implementing a dynamic and visually appealing layout required leveraging JavaScript frameworks for enhanced interactivity and animations and

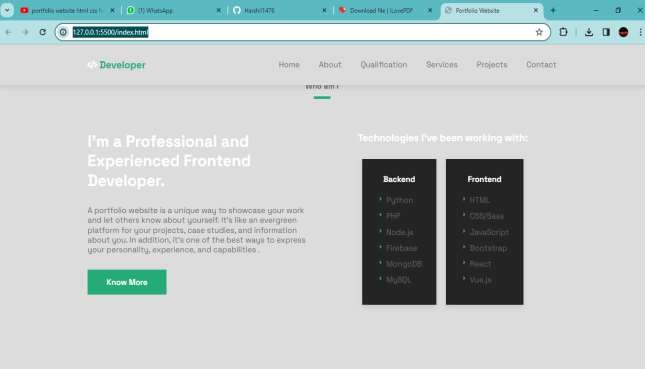
Ensuring a balance between aesthetics and usability was achieved through iterative design and testing phases.

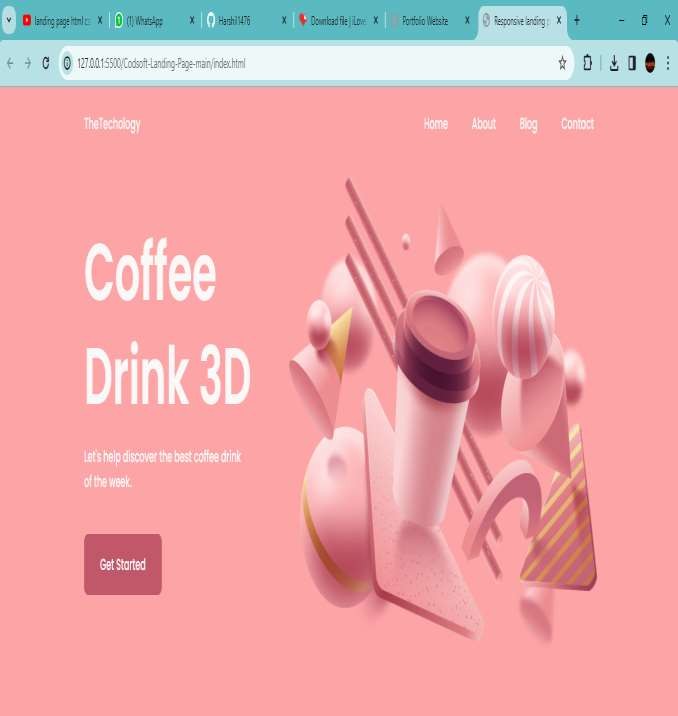
# Institute Management system:

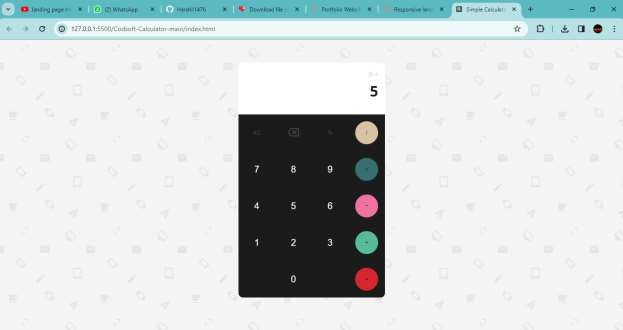
Build a functional calculator for performing mathematical operations using HTML, CSS, JavaScript. This project helps in ensuring accurate mathematical calculations and handling edge cases required careful JavaScript logic implementation and implementing user-friendly error handling for incorrect inputs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

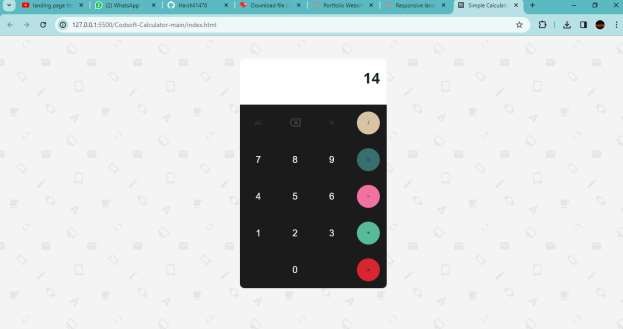




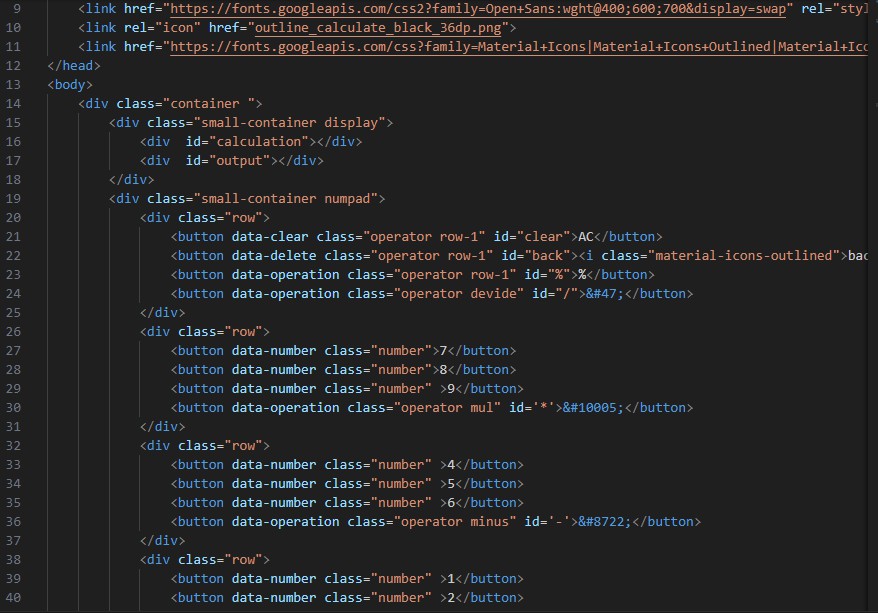












Code Repository: <https://github.com/Harshil1476>











<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>

