



BANGLADESH ARMY INTERNATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

Department of Computer Science & Engineering (CSE)

Project Report

PERSONAL PORTFOLIO

Course Title : Software Development for Web Apps Sessional.

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Abstract

Personal marketing begins and ends with the creation of a compelling professional portfolio. Whether aspiring to secure a place in art school, aiming for a position in web development, or seeking a teaching job, the portfolio's impact on success cannot be understated. It serves as a reflection not only of the individual's work but also of their professional demeanor, attention to detail, and collaborative attitude.

The best portfolios strike a delicate balance, offering ease of review for the recipient while captivating them visually, thereby generating further interest in the showcased work. This powerful tool showcases an individual's skills, achievements, and potential, making a lasting impression on those who assess it. The success of one's endeavors could very well hinge on the quality and effectiveness of their portfolio, making it a critical aspect of their journey towards accomplishing their goals.

Content

Chapter: 1 Project Introduction -----	5
• What is a Portfolio -----	5
• Importance of a Portfolio -----	5
Chapter: 2 Technologies -----	6
• Front-End -----	6
• Back-End -----	7
• Important libraries -----	(7-8)
• IDE -----	8
• Local Server -----	8
Chapter: 3 Features -----	(9-13)
➤ Homepage	
➤ About Me	
➤ My Experiences	
➤ Services	
➤ Portfolio for projects	
➤ Testimonials	
➤ Contact Me	
➤ Footer	
Chapter: 5 Discussion -----	13
Chapter: 6 Conclusion -----	14

Chapter: 1 Project Introduction

This project is about developing an exceptional web-based portfolio purposefully designed to showcase the owner's achievements, skills, and experiences, providing a profound insight into professional identity through an engaging and visually captivating interface.

What is a Portfolio

A Portfolio serves as a comprehensive compilation of materials showcasing an individual's beliefs, skills, qualifications, education, training, and experiences. It provides valuable insights into their personality and work ethic.

By carefully curating the most relevant experiences and presenting them in an easily understandable format, a Portfolio offers tangible evidence of the individual's organizational prowess, communication abilities, and career-related skills, making a compelling case to prospective employers.

Importance of a Portfolio

A Portfolio holds immense importance as a powerful tool for professional development and personal branding. It offers a comprehensive showcase of an individual's talents to potential employers, clients, or collaborators, enabling them to stand out in competitive job markets and seize better career prospects. Beyond its impact on job-seeking endeavors, a Portfolio acts as a tangible record of growth, fostering personal and professional development and motivating continuous excellence. Thoughtfully designed, it demonstrates professionalism and attention to detail, reinforcing credibility and trustworthiness with potential clients or collaborators. Moreover, the versatility of a Portfolio allows individuals from various industries to showcase their unique strengths effectively, facilitating networking opportunities and collaborations. Overall, a Portfolio plays a pivotal role in shaping an individual's professional identity and trajectory, empowering them to carve a distinctive path in today's dynamic professional landscape.

Chapter: 2 Technologies

Web Technology refers to a variety of tools and techniques used for communication between different devices over the internet. Accessing web pages is made possible through web browsers, which function as programs displaying text, data, images, animations, and videos on the Internet. These web browsers offer software interfaces that allow users to access hyperlinked resources found on the World Wide Web. Web Technology plays a crucial role in the development and functioning of internet-based systems and services.

Front-End

Front-end web development is the development of the graphical user interface of a website, so that users can view and interact with that website. Front-End technologies used in our project –

HTML:

HTML stands for Hyper Text Markup Language. It is a fundamental language used in website development; it is the backbone of every web page. It permits the creation of hypertext, in which text contains hyperlinks that connect to other web pages. When a user clicks on a hyperlink, they are directed to a new page.

CSS:

CSS stands for Cascading Style Sheets. It basically describes how HTML elements are to be displayed. CSS controls the visual presentation of a website, giving it a unique and appealing appearance. It works by managing style rules that can override one another and adapt based on factors like the device's screen size and resolution.

JavaScript:

JavaScript is the programming language of the Web. It is an event-driven computer language that turns static HTML pages into dynamic, interactive interfaces. JavaScript code can change a web page in reaction to different events, such as user input, by using the Document Object Model (DOM), which is part of the HTML standard.

React:

React is an open-source JavaScript library used to build user interfaces (UIs) for web applications. It allows to create reusable UI components and efficiently manage the state of these components. One of its key features is the use of a virtual DOM, which optimizes rendering performance by updating only the necessary parts of the actual DOM when there are changes in the application's state. React is widely used for building single-page applications (SPAs) and dynamic user interfaces.

Back-End

The website's backend serves as the foundation, handling user requests, data management, and complex tasks on the server side. It ensures authentication, security, and data integrity, supporting a seamless user experience on the frontend. Back-End technologies used in this project –

Node js:

Node.js is an open-source, server-side JavaScript runtime environment. It allows developers to execute JavaScript code outside the web browser, directly on the server. One of the key features of Node.js is its non-blocking, event-driven architecture, which allows it to handle multiple concurrent connections without blocking the execution of code. It is well-suited for building scalable and real-time web applications, as it can handle a large number of simultaneous connections. It also has a vast ecosystem of packages and modules available through npm (Node Package Manager), which enables developers to extend its capabilities and build a wide range of applications.

Important libraries

In web development, "libraries" are additional sets of code that simplify and accelerate projects. They provide reusable functions, classes, and components to tackle common tasks. Utilizing libraries saves time, reduces redundancy, and enhances project efficiency. For this project, important libraries include:

EmailJS:

A JavaScript library for sending emails directly from client-side code, simplifying email integration in web applications. It enables sending dynamic emails with customizable templates and variables, without the need for server-side implementation.

Swiper:

A powerful and customizable JavaScript library for touch-friendly and responsive sliders and image galleries. It offers smooth user experiences on various devices, supporting single slides, multiple slides per view, and parallax effects. Swiper is highly customizable and ideal for creating engaging slideshows.

Google Fonts:

Google Fonts is a collection of web fonts by Google, enabling developers to use a wide range of fonts on their websites, regardless of user's local fonts. It provides attractive typography through interactive APIs, making it easy to integrate custom fonts without local hosting. The Poppins font was utilized in this project.

React Icons:

Icons play a vital role in our e-commerce user interface, providing visual cues and enhancing usability. React Icons is a convenient library that offers a collection of ready-to-use icons as React components from various icon libraries. It simplifies the process of adding icons to our components and enhances the overall visual appeal of the website.

IDE

An IDE, short for Integrated Development Environment, is a software that consolidates various developer tools into a unified graphical user interface (GUI) for application development.

VS Code:

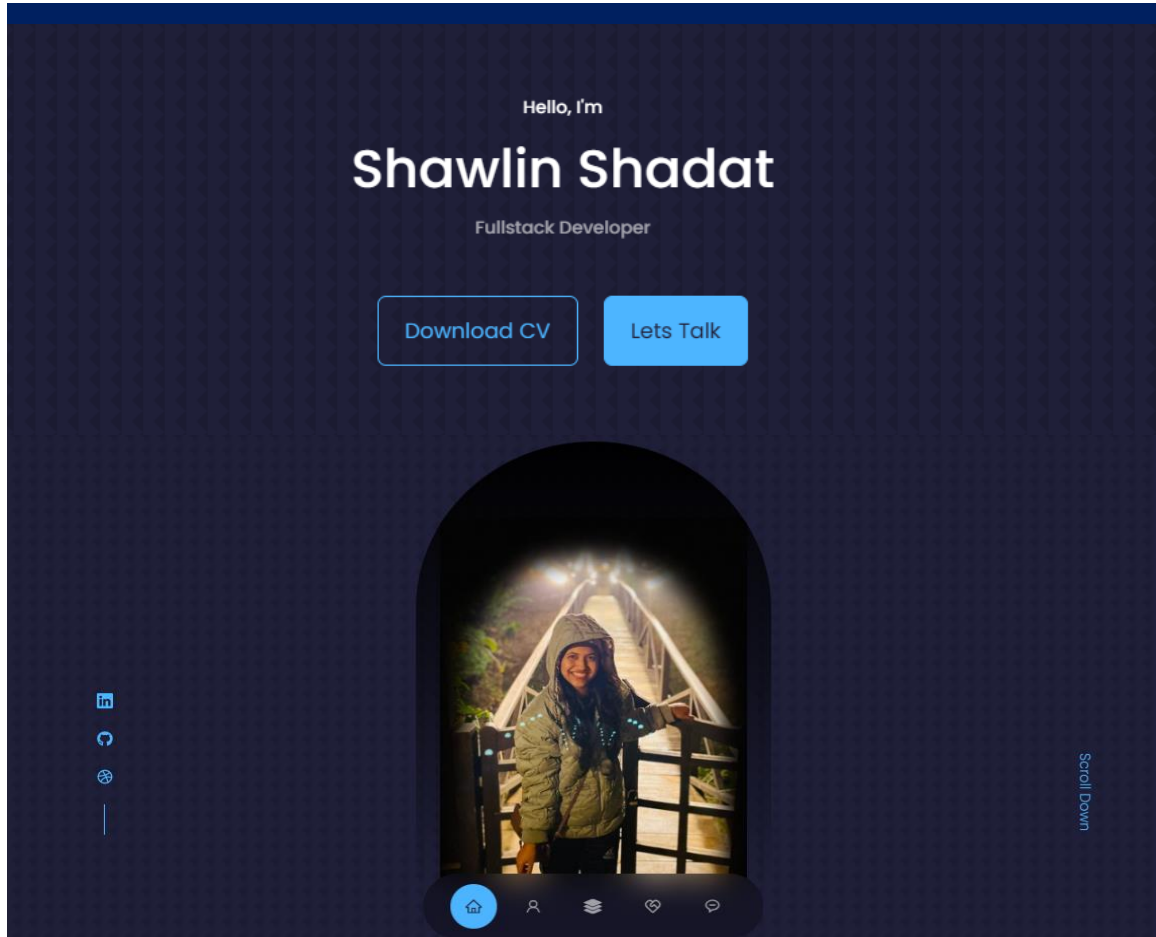
VS Code, also known as Visual Studio Code, is a lightweight yet robust source code editor designed for desktop use. It is compatible with Windows, macOS, and Linux operating systems.

Local Server

"<http://localhost:3000/>" in a web browser, it refers to a local server running on your own computer. A local server is a computer server used by individuals or developers to host and test one or more websites or web applications locally on their machines.

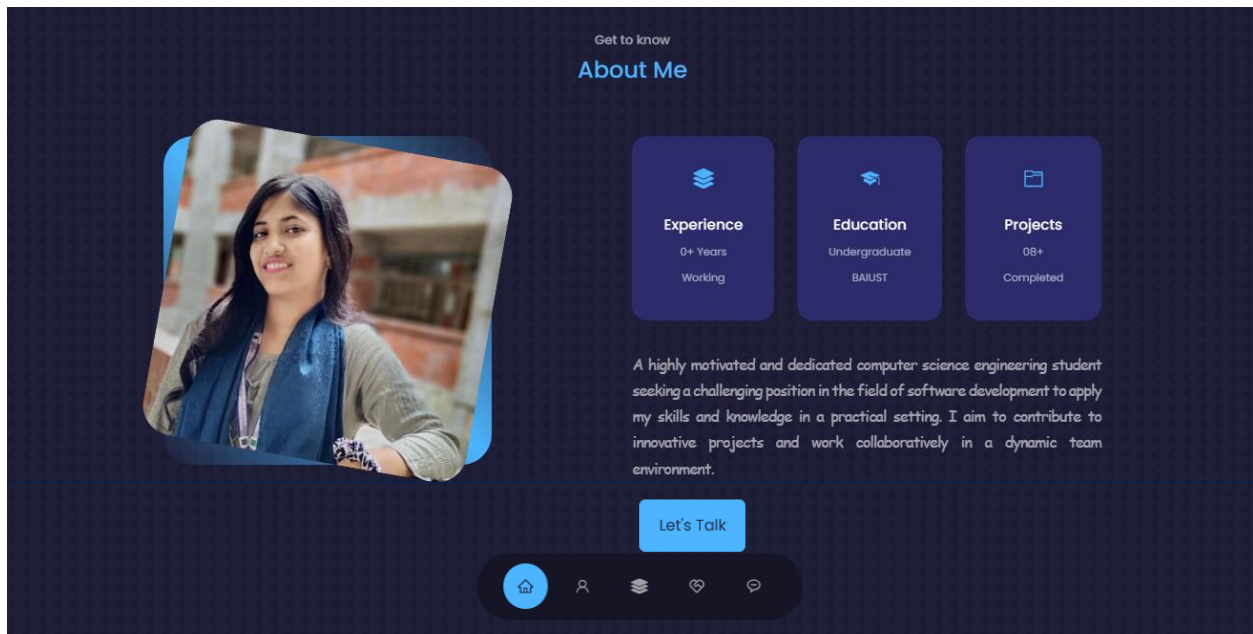
Chapter: 3 Features

Homepage: Welcome to an engaging portfolio experience!



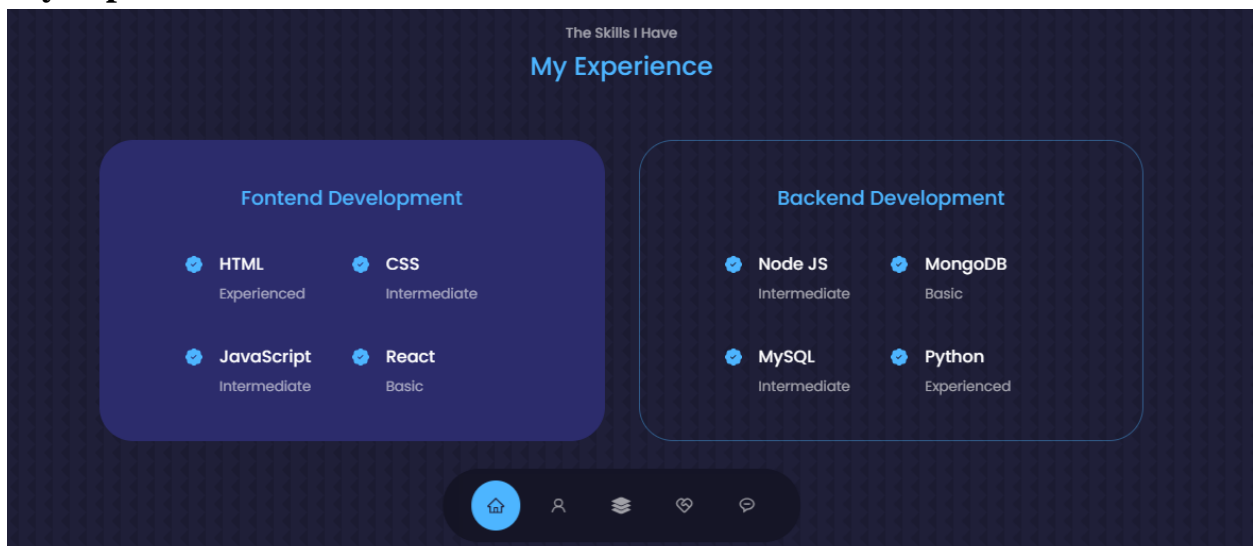
User can discover an enticing home page with a warm introduction and a clickable 'Download CV' button to download the owner's cv. Easily connect through the "Let's Talk" button and explore various profile links of the owner. Scroll down for more exciting content through scroll down button. Moreover there is a floating navbar also connecting directly to other sections of the website.

About me:



In the "About Me" section, users can learn about the owner. They can view the experiences, education, and completed projects also. Through the "Let's Talk" button can easily contact to the owner.

My experience:

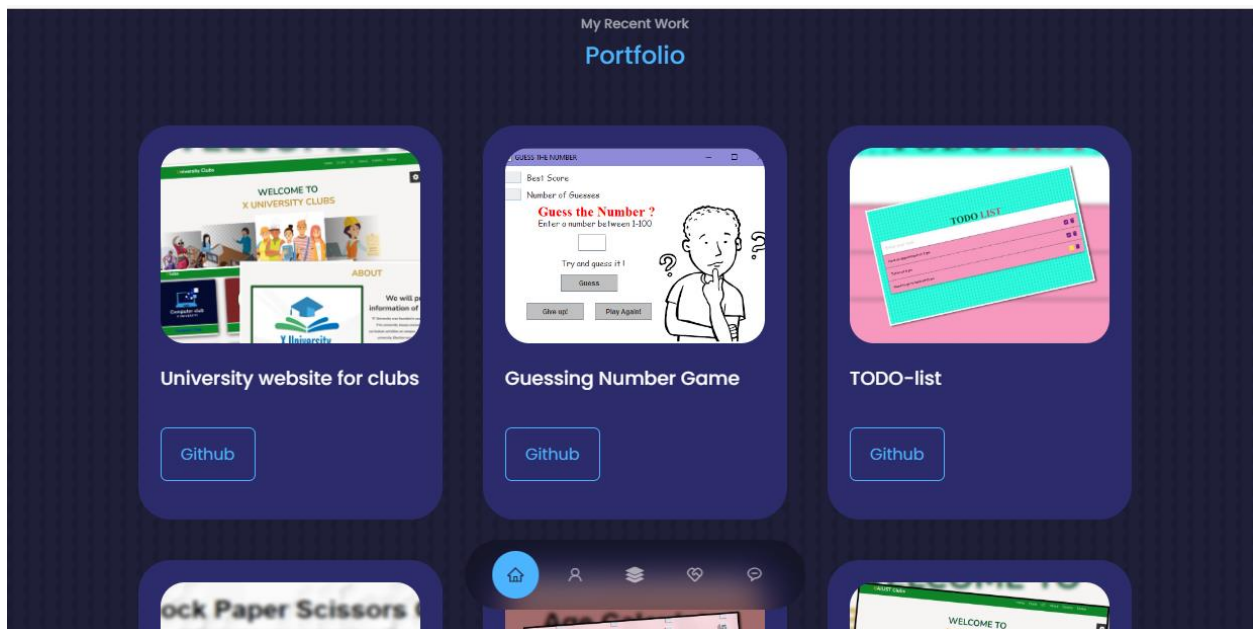


In the 'Experience' section, users can view the owner's skills, gaining an understanding of their expertise and capabilities.

Service: User can view the services they can get.

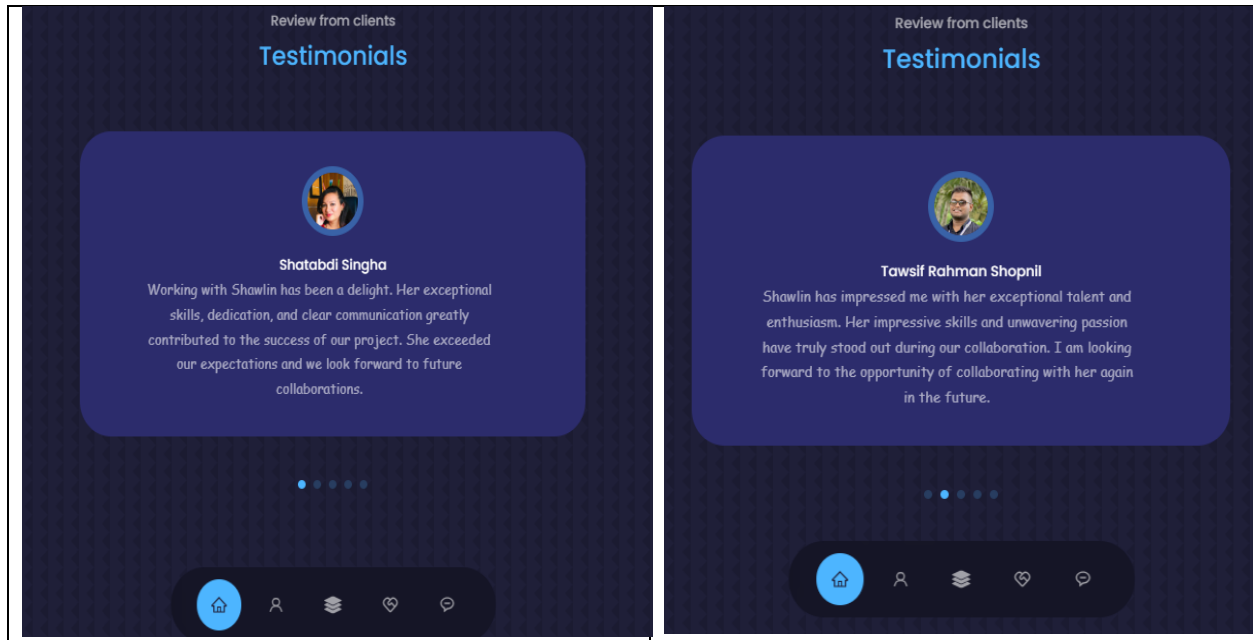


Portfolio for recent projects:



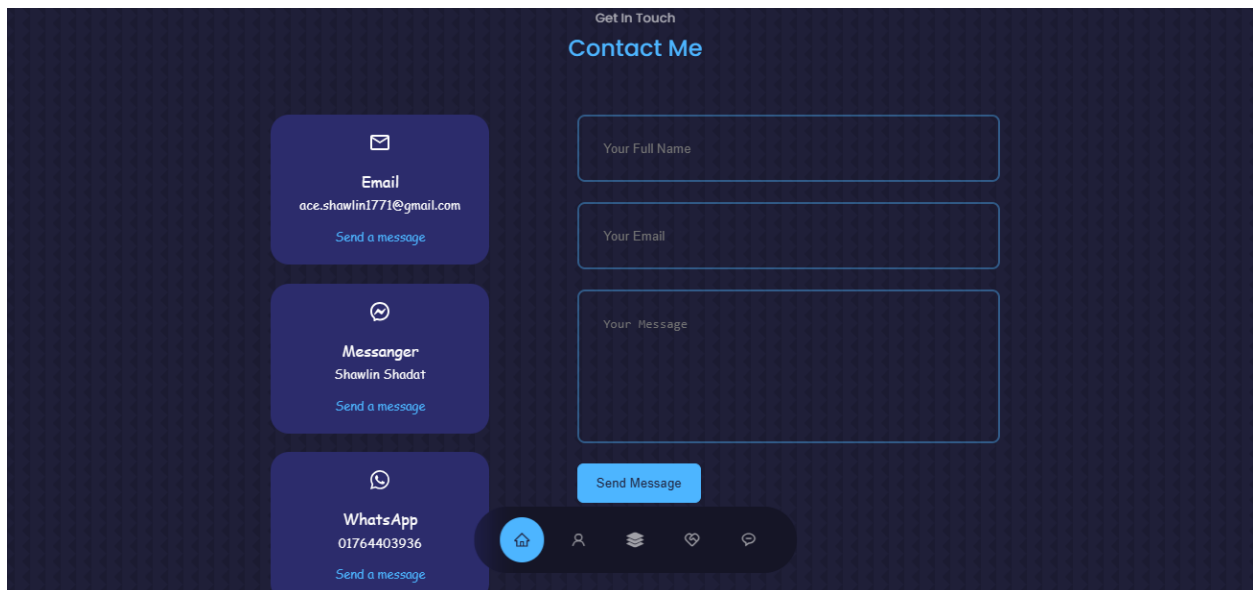
User can view the recent projects done by the owner. The github repository links have been also provided.

Testimonials:

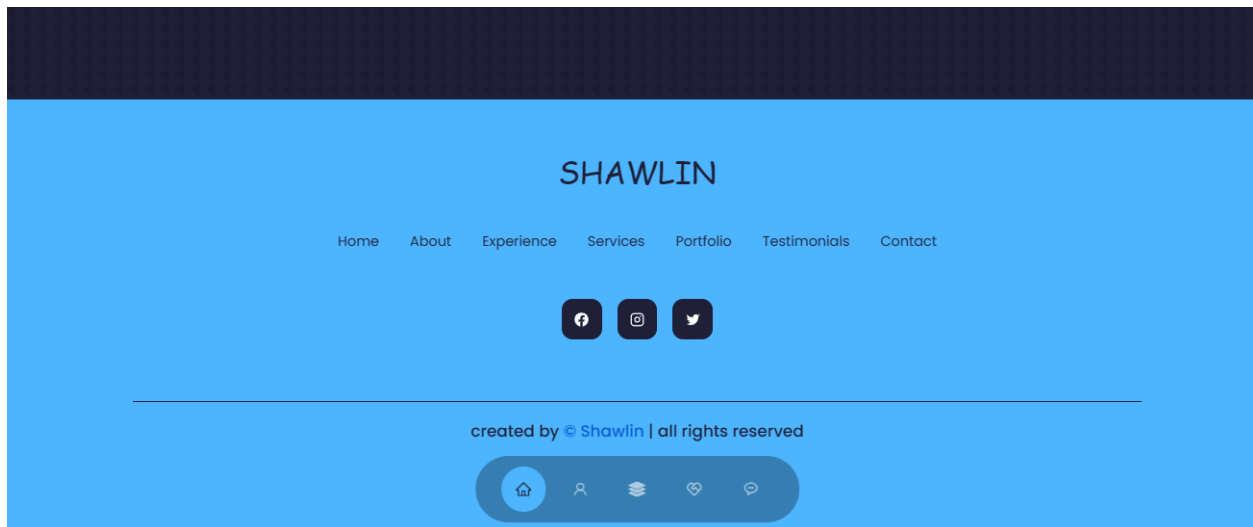


In this section user can view the reviews about the owner.

Contact Me:



In this section user can contact the owner via Email, Messenger or WhatsApp. There is also direct message system also.

Footer:

In the footer section, users can easily navigate back to different sections of the website. The footer also includes social media links for direct access to the owner's profiles. This ensures seamless exploration and connection with the portfolio owner.

Chapter: 5 Discussion

The personal portfolio website offers several benefits, including a clean and intuitive design that provides an engaging user experience. It ensures responsiveness across different screen sizes. It reflects the owner's personal branding and expertise, showcasing a curated selection of projects through an appealing portfolio. Multiple contact options and social proof in the form of testimonials build trust and encourage interaction with potential clients or collaborators. The website's multi-platform compatibility enables seamless access from various devices.

The website requires code changes to update information, so the owner may face limitations in quickly and independently modifying content. Regular code updates may be necessary to reflect new experiences, projects, or contact details, potentially requiring technical assistance. Implementing a user-friendly content management system could overcome this limitation, empowering the owner to make real-time updates without code modifications.

Chapter: 6 Conclusion

This portfolio project offers a straightforward yet valuable example for individuals seeking to showcase themselves to a broader audience. As a single-person website, it is user-friendly and easily manageable. This personal portfolio website offers an engaging and visually appealing platform to showcase the owner's skills and accomplishments. Although content updates require code changes, the website effectively represents the owner's professional brand and serves as a valuable networking tool for career growth.

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