Lab Report

Report Name: Harvard Layout Homepage with personal information.
Course Title: Web Engineering Lab
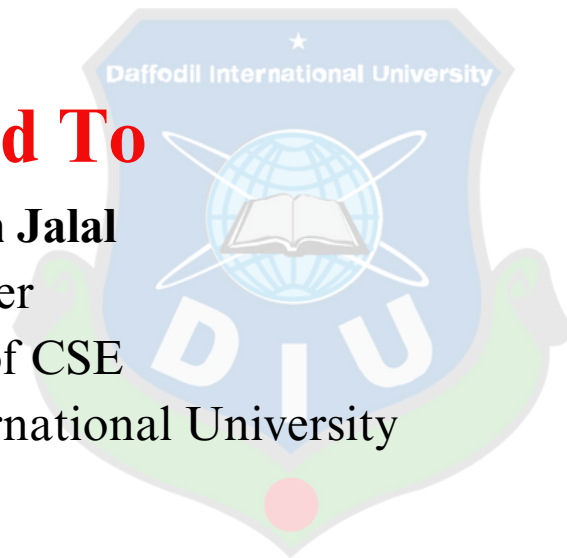**Course Code: CSE 416**
Report No: 02

Submitted To

Mr. Md. Shah Jalal
Senior Lecturer
Department of CSE
Daffodil International University

Submitted By

Md. Ali Emam Al Mamun
221-15-4861
Section: 61_C2
Department of CSE
Daffodil International University

Submission Date: 19-06-2025

Introduction

In today's digital era, showcasing one's skills and projects through a personalized portfolio website has become essential for developers and students alike. This lab experiment was aimed at developing a personal portfolio website to present my profile, projects, and technical capabilities using HTML, CSS, and JavaScript.

The design structure is inspired by modern portfolio layouts — featuring a hero section with clear designation, fixed navigation for easy access, an About Me page, and a My Portfolio page that highlights two functional mini projects: a Biodata Form and a Calculator.

This hands-on project allowed me to reinforce my understanding of responsive web design and enhance user interactivity using JavaScript.

Methodology

Design Planning

- Planned a clean, minimalistic layout for the homepage with a large hero section.
- Created internal pages: About Me and My Portfolio.
- Included sections for skills, contact, and featured projects.

Tools & Technologies Used

Tool	Purpose
HTML5	Structure and semantic markup
CSS3	Styling and responsive layout
JavaScript	Adding interactivity (Calculator logic)
VS Code	Code editing
Chrome DevTools	Debugging and testing
GitHub	Version control and deployment

Development Process

- Designed a fixed header with navigation links: Home, About Me, My Portfolio.
- Implemented a hero section with a professional title: Junior Software Developer.
- Built an About Me page describing my background and skills.
- Developed a Portfolio page showcasing:
  - Biodata Form: Collects user input in a structured format.
  - Calculator: Simple calculator built using HTML, CSS, and JavaScript for functionality.
- Applied CSS Flexbox and media queries for responsiveness.
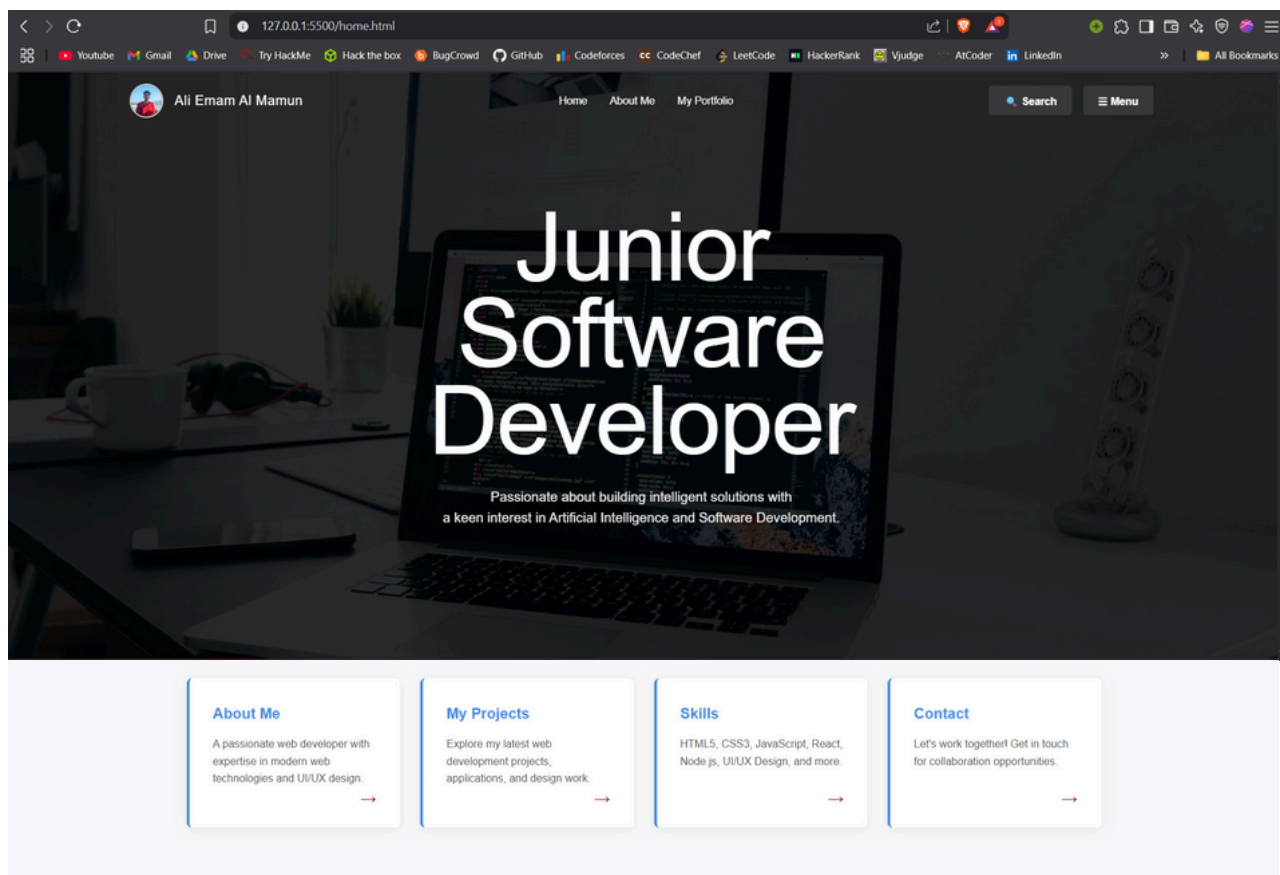
GitHub Repository

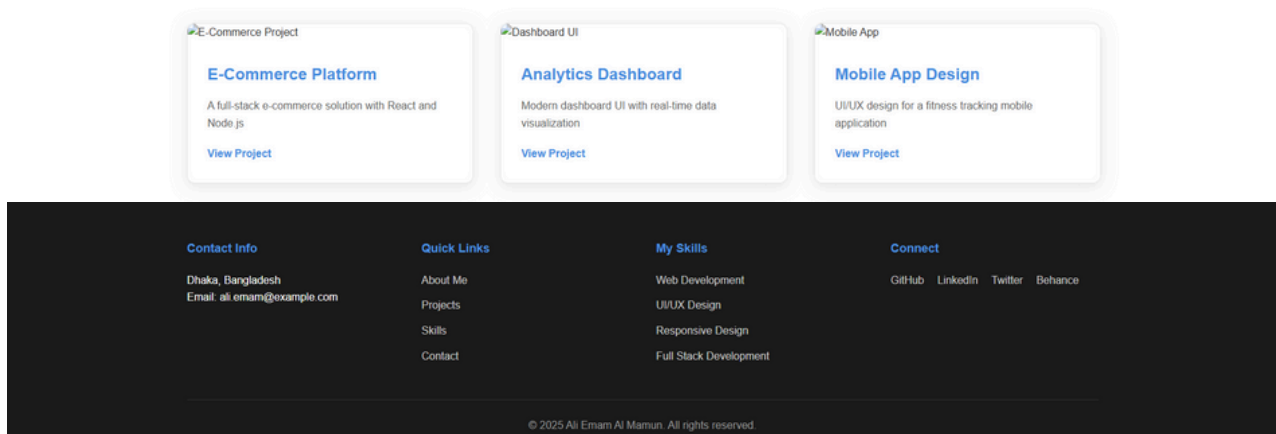GitHub Repository

Features Implemented

✅ Fixed Header Navigation
✅ Hero Section with Clear Title
✅ About Me Section
✅ My Portfolio with Two Projects:

- Biodata Form
- Calculator with Functional Buttons
- ✅ Responsive Design for Mobile and Desktop
- ✅ Modern, Clean Aesthetic

Output Screenshots

👉 Home Page:

👉 About Me Page:

Hello, I'm

Ali Emam

Junior Software Developer

Web Development   Cybersecurity   Ethical Hacking

Ali Emam Al Mamun is a passionate and self-driven individual currently pursuing a Bachelor's degree in Computer Science and Engineering at Daffodil International University.

Technical Expertise

With a strong foundation in front-end web development, Ali is proficient in:

- HTML, CSS, JavaScript
- React & Redux Toolkit
- Next.js
- Tailwind CSS
- UI Frameworks (shadcn/ui, DaisyUI)

Cybersecurity Journey

His curiosity led him to the world of cybersecurity, where he actively explores ethical hacking and bug bounty hunting. He is progressing steadily on platforms like TryHackMe to build his skills in web penetration testing and offensive security.

Entrepreneurial Spirit

Beyond technical pursuits, Ali is a creative thinker and entrepreneur. He has developed consultancy branding under QAdvisory, focusing on finance, advertising, planning, and unique business ideas.

Professional Goals

His goal is to merge front-end development experience with cybersecurity expertise to become a skilled bug hunter and ethical hacker, with a deep understanding of how the web works—both from a user and attacker perspective.

👉 Portfolio Page:
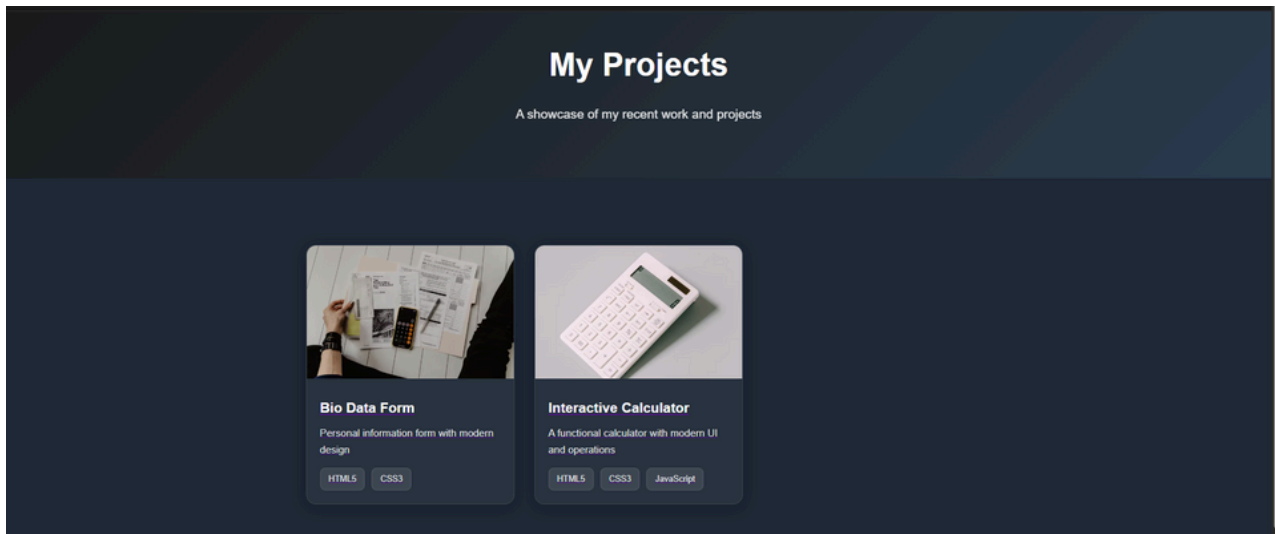
👉 Biodata Form:

👉 Calculator:
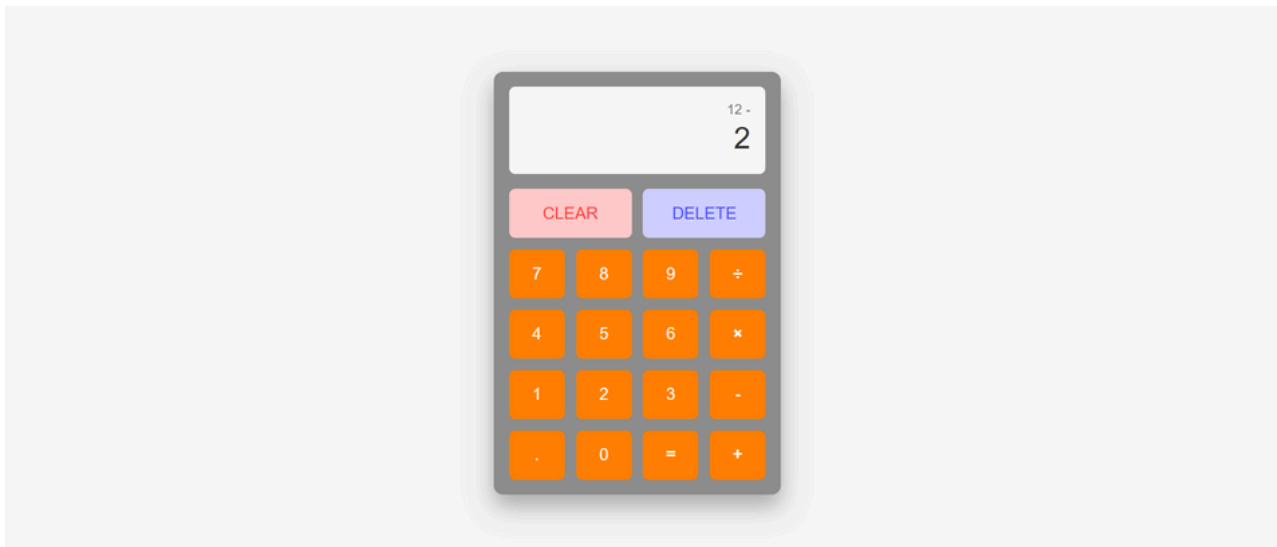
Results

The website meets the objectives of this lab experiment. All pages are functional, the layout is clean and responsive, and the portfolio demonstrates practical implementations of both a data input form and a JavaScript-powered calculator. The overall design reflects modern best practices for personal developer portfolios.

Learning Outcomes

- Practiced semantic HTML structuring and responsive CSS design.
- Implemented basic JavaScript interactivity for a functional calculator.
- Learned to plan and organize personal branding elements.
- Gained experience deploying a website using GitHub Pages.

Conclusion

This lab project strengthened my understanding of building a personal portfolio website from scratch. By combining HTML, CSS, and JavaScript, I was able to craft a professional digital presence that highlights my skills and mini-projects. The experience has prepared me for future tasks involving web design, interactive components, and portfolio presentation.