

COLLEGE CODE: 9623

**COLLEGE NAME: AMRITA COLLEGE OF
ENGINEERING AND TECHNOLOGY**

**DEPARTMENT: COMPUTER SCIENCE AND
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COMPLETED THE PROJECT NAMED AS PHASE 5

TECHNOLOGY PROJECT NAME: PORTFOLIO WEBSITE

SUBMITTED BY,

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Project Overview

The **Portfolio Website** is a fully responsive and animated web application designed to showcase personal skills, projects, achievements, and contact information of a developer.

It acts as a **digital resume and personal brand identity** for professionals, especially web developers and designers.

The website includes:

- A visually appealing homepage introducing the developer.
- An about section displaying skills, education, and experience.
- A projects section showcasing major works with live links and GitHub repositories.
- A contact form integrated with email functionality.
- Modern animations, transitions, and responsiveness across all devices.

The main objective is to create a **professional online presence** and demonstrate **frontend & backend integration** using modern web technologies.

Project Report

The **Portfolio Website** project was developed using **HTML5, CSS3, JavaScript, and React.js**, with backend support through **Node.js and Express.js** for contact form handling.

The design was implemented with **Tailwind CSS** for a sleek, modern interface and **Framer Motion** for animations.

Key Features

1. **Responsive Design:** Works seamlessly on desktop, tablet, and mobile.
2. **Animated UI:** Smooth scrolling and motion effects for user engagement.
3. **Dynamic Project Section:** Fetches project data from a JSON or database.
4. **Interactive Contact Form:** Sends messages directly to email using Node.js backend.
5. **Dark/Light Mode Toggle:** Enhances usability and user experience.

Technology Stack

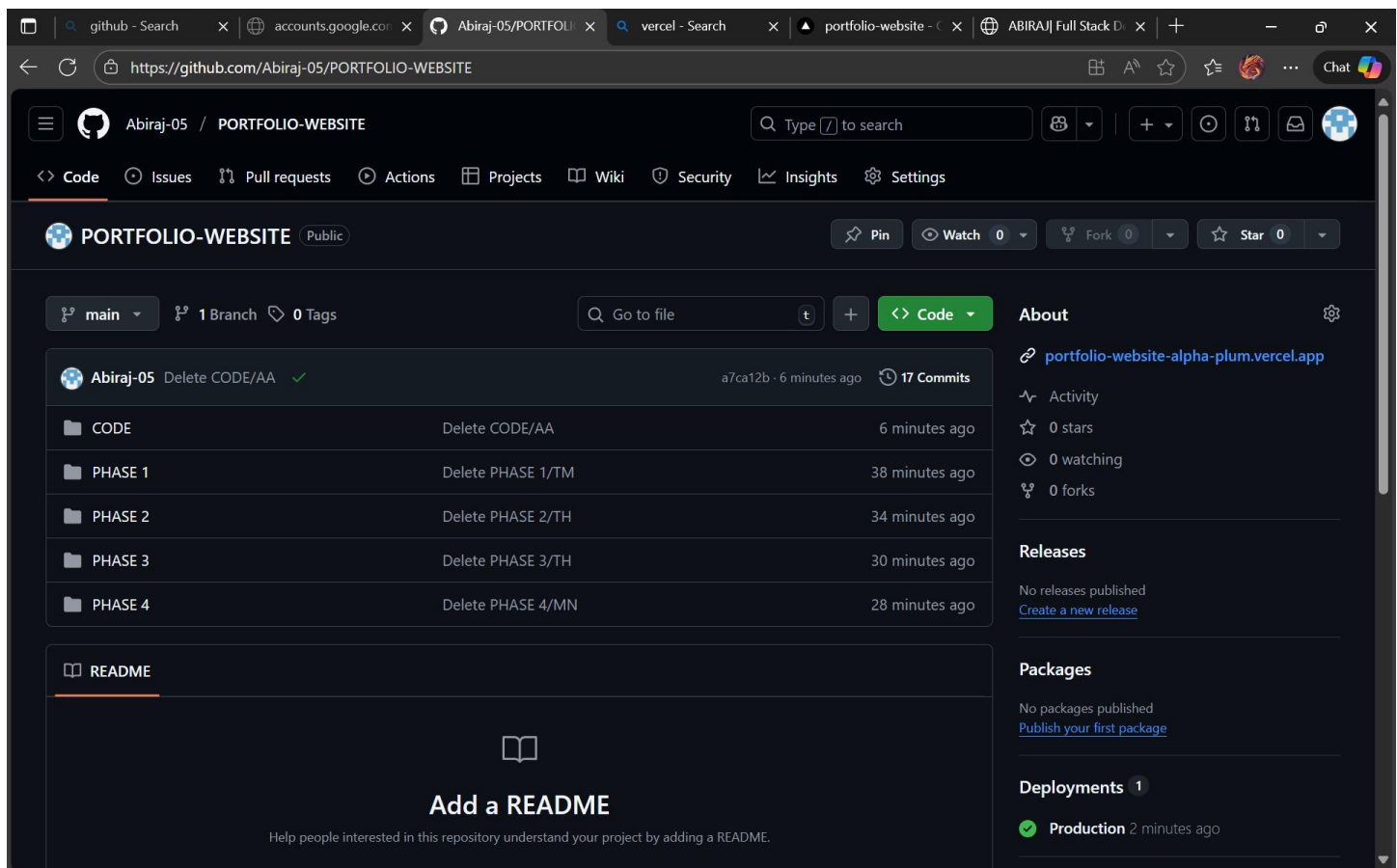
- **Frontend:** HTML, CSS, JavaScript, React.js, Tailwind CSS, Framer Motion
- **Backend:** Node.js, Express.js
- **Version Control:** Git & GitHub
- **Deployment:** GitHub Pages / Vercel

Structure

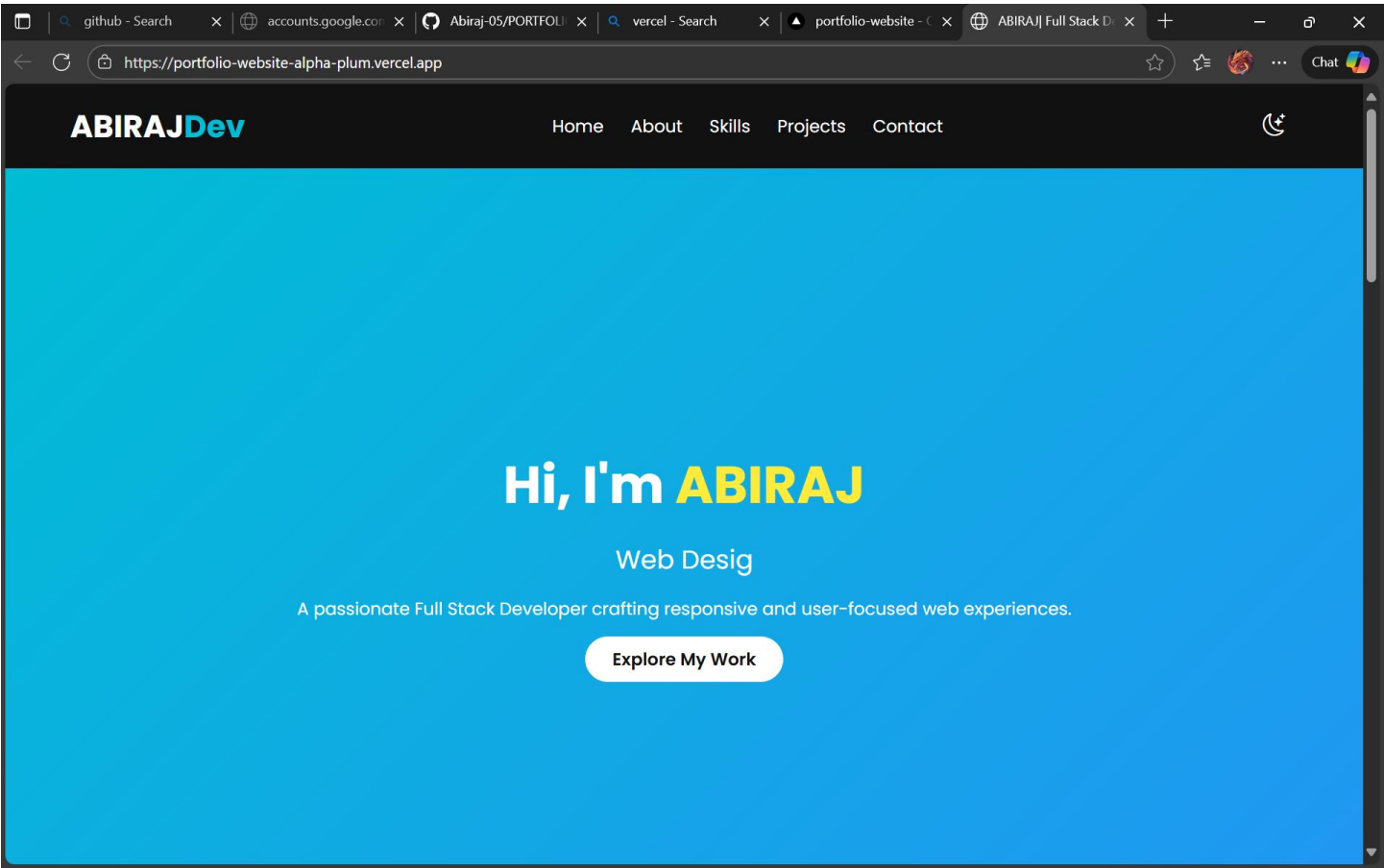
- Home Page: Introduction with hero animation and navigation links.
- About Page: Bio, education, and skills with progress bars.
- Projects Page: Grid cards showcasing projects with hover animations.
- Contact Page: Contact form with live message submission.
- Enhancements & Deployment Page: Details of hosting, improvements, and updates.

Screenshots:

GITHUB REPOSITORY IMAGE:



WEBSITE IMAGE:



Challenges & Solutions

Challenge	Description	Solution Implemented
Responsive Layout	Difficulty maintaining layout consistency on smaller screens	Used Tailwind CSS grid and flex utilities for better control
Animation Lag	Animations caused delay in rendering	Optimized motion using Framer Motion's useReducedMotion hook
Contact Form Validation	Errors in backend email response	Added Express middleware for error handling
GitHub Deployment	Issues with routing on refresh	Used HashRouter in React for static page hosting

GitHub Link

GitHub Repository: <https://github.com/Abiraj-05/PORTFOLIO-WEBSITE>

DEPLOYED WEBSITE LINK: USING VERCEL:

[ABIRAJ| Full Stack Developer](#)

Conclusion

The **Portfolio Website** successfully demonstrates personal branding, responsive design, and real-time interaction features.

It highlights the developer's technical expertise and creativity while serving as a live resume accessible globally.