

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 2

TECHNOLOGY PROJECT NAME: PORTFOLIO WEBSITE

SUBMITTED BY,

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Tech Stack Selection

To build a scalable and responsive portfolio website, the following tech stack is selected:

• Frontend:

- HTML5, CSS3, JavaScript (ES6+) For structure, styling, and interactivity.
- o React.js For building reusable, dynamic, and component-based UI.
- o Tailwind CSS / Bootstrap For responsive and modern styling.

• Backend (Optional – if using dynamic content):

○ Node.js with Express.js – To handle APIs and server-side logic.

Database (Optional – for blog/projects data):

 MongoDB / Firebase – To store project details, contact form entries, and blog posts.

• Deployment & Hosting:

- o GitHub Pages / Vercel / Netlify For frontend hosting.
- o MongoDB Atlas / Firebase Cloud For backend data storage

UI Structure / API Schema Design UI Structure (Pages & Components)

- 1. Home Page Introduction, name, and tagline.
- 2. About Page Bio, skills, education, and experience.
- 3. Projects Page Portfolio of projects with images, descriptions, and links.
- 4. Blog Page (Optional) Articles and learning experiences.
- 5. Contact Page Contact form, email, and social links.
- 6. Navigation Bar & Footer Persistent across all pages.

API Schema (if backend included)

- o /api/projects → Returns list of portfolio projects.
- o /api/contact → Handles form submissions (name, email, message).
- o /api/blogs → Returns blog posts (title, content, tags)

Data Handling Approach Static Data (Without Backend):

Static Data (Without Backend):

- o Store project and skill data in JSON files or React state.
- o Form submission Can use services like EmailJS or Google Forms.

Dynamic Data (With Backend):

- o API endpoints fetch project/blog data from MongoDB or Firebase.
- Contact form data stored securely in the database.
- Use JWT/OAuth for authentication (if admin panel is added)

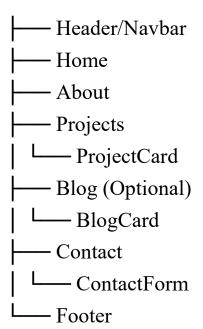
Component / Module Diagram

Main Components:

- Header (Navbar)
- o Footer
- o HomeSection
- AboutSection

- o ProjectsSection
- o BlogSection
- o ContactForm
- o API Service Module (for data fetch & post)

Portfolio Website



Basic Flow Diagram

```
User Flow:

[User]

↓

[Home Page] → [About Page] → [Projects Page] → [Blog Page] →

[Contact Page]

↓

↓

[Navbar] <-----> [Footer]
```

