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COMPLETED THE PROJECT NAMED AS PHASE 2

TECHNOLOGY PROJECT NAME: PORTFOLIO WEBSITE

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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.
- React.js – For building reusable, dynamic, and component-based UI.
- 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:**

- GitHub Pages / Vercel / Netlify – For frontend hosting.
- 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)

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

Data Handling Approach Static Data (Without Backend):

Static Data (Without Backend):

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

Dynamic Data (With Backend):

- 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)

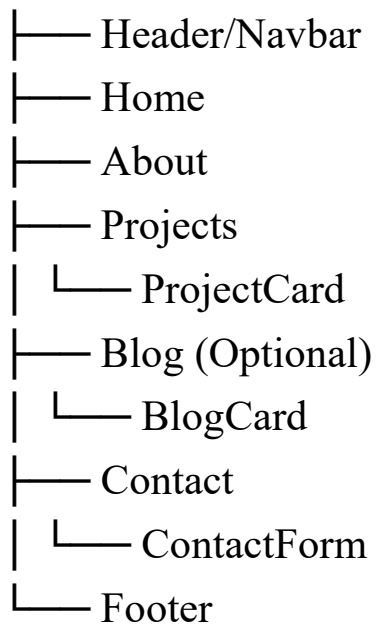
Component / Module Diagram

Main Components:

- Header (Navbar)
- Footer
- HomeSection
- AboutSection

- ProjectsSection
- BlogSection
- ContactForm
- 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]

Contact Form Flow (with Backend):

User → Fills Contact Form → API (/api/contact) → Backend
(Node.js) → Database (MongoDB)

→ Success/Failure Response → User Notification (Toast/Message)