**Portfolio Website Documentation**

**Overview**

This documentation provides details about my personal portfolio website, highlighting its features, technologies used, and challenges encountered during development.

**Features**

**1. Responsive Design**

Fully responsive layout that adapts to all screen sizes (mobile, tablet, desktop)

Mobile-friendly navigation with hamburger menu

Flexible grid and flexbox layouts

**2. Interactive Elements**

Smooth scrolling navigation

Tabbed interface in About section

Project cards with hover effects

Form validation and submission

Social media links

**3. Content Sections**

Hero section with profile introduction

About me with skills/experience/education tabs

Workshops & Certifications showcase

Projects gallery with links

Contact form with Google Sheets integration

Downloadable resume

**4. Visual Design**

Dark theme with accent colors

Consistent styling throughout

Animated hover effects

Proper spacing and typography hierarchy

**Technologies Used**

**Frontend**

HTML5: Semantic markup structure

CSS3: Styling with Flexbox and Grid

JavaScript: Interactive functionality

Bootstrap Icons: For social media and UI icons

**Backend Integration**

Google Apps Script: Form submission handling

Google Sheets: Data storage for contact form

**Development Tools**

Visual Studio Code

Git/GitHub for version control

Chrome Developer Tools

**Challenges Faced**

**1. Responsive Design Implementation**

Challenge: Ensuring consistent appearance across all devices

Solution: Used media queries, flexible units (vw, %), and mobile-first approach

**2. Form Submission Handling**

Challenge: Setting up Google Sheets integration

Solution: Implemented Google Apps Script and proper error handling

**3. Mobile Navigation**

Challenge: Creating a smooth mobile menu experience

Solution: Developed a sliding menu with proper z-indexing and transitions

**4. Performance Optimization**

Challenge: Reducing layout shifts during loading

Solution: Predefined aspect ratios for images and proper sizing

**5. Cross-Browser Compatibility**

Challenge: Consistent behavior across browsers

Solution: Feature detection and progressive enhancement

**Project Structure**

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portfolio/

├── index.html # Main HTML file

├── st.css # Main stylesheet

├── script.js # JavaScript functionality

├── assests/ # Image assets

│ ├── me1 (1).jpg

│ ├── abttmee.jpeg

│ ├── portfolio.png