9530

St. MOTHER THERESA ENGINEERING COLLEGE

COMPUTER SCIENCE ENGINEERING

NM-ID: 2AA1DFAD5299ADAA03A4BF2BB6D348C2

REG NO: 953023104041

DATE:15-09-2025

Completed the project named as

Phase 2

FRONT END TECHNOLOGY

PORTFOLIO WEBSITE

SUBMITTED BY:

JOSHUVA PRIYAN VASANTH. I

7708698049

1. Tech Stack Selection

- **CMS:** WordPress (open-source, widely used).
- **Page Builder:** Elementor (drag-and-drop customization).
- **Theme:** Astra / Neve (lightweight, responsive).
- **Plugins:**
  - **Contact Form 7** – Contact functionality.
  - **Envira Gallery / Portfolio Gallery** – Project display.
  - **Yoast SEO** – Search engine optimization.
  - **UpdraftPlus** – Backup plugin for security.

2. UI Structure / Schema Design

Pages & Structure:

1. **Home Page**
   a. Intro Banner (Photo + Tagline).
   b. Skills Snapshot (Icons/Progress bars).
   c. Portfolio Highlights (3 projects).
   d. Quick Contact Links.
2. **About Page**
   a. Profile picture + Bio.
   b. Skills section (Technical & Soft skills).
   c. Education and Certifications.
3. **Portfolio Page**
   a. Grid/Gallery view of projects.
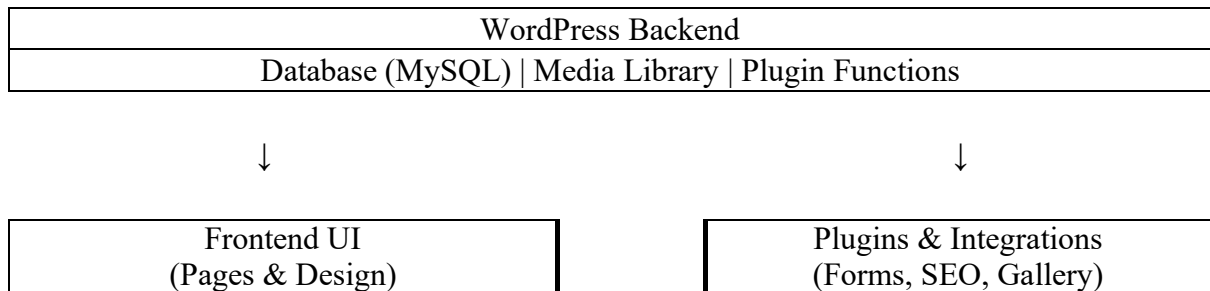   b. Each project: Title, description, technology used, link.
4. **Contact Page**
   a. Contact form (Email integration).
   b. Social links (LinkedIn, GitHub, etc.).
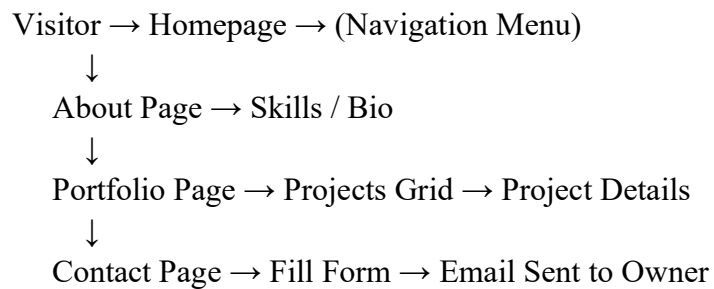
3. Data Handling Approach

- **Portfolio Entries:** Stored as WordPress custom posts.
- **Images & Media:** Uploaded to the WordPress Media Library.
- **Contact Form Submissions:** Sent directly to the registered email address.
- **Site Customization:** Achieved using WordPress Dashboard (no direct code required).

4. Component / Module Diagram

High-Level Components:

WordPress Backend
Database (MySQL)	Media Library	Plugin Functions

↓   ↓

Frontend UI (Pages & Design)	Plugins & Integrations (Forms, SEO, Gallery)

5. Basic Flow Diagram

Visitor → Homepage → (Navigation Menu)
  ↓
 About Page → Skills / Bio
  ↓
 Portfolio Page → Projects Grid → Project Details
  ↓
 Contact Page → Fill Form → Email Sent to Owner

6. Security & Scalability Considerations

- Regular backups (UpdraftPlus).
- CAPTCHA on contact form to prevent spam.
- SEO plugin ensures visibility on Google.
- Responsive theme ensures mobile scalability.