



# 9530

# St. MOTHER THERESA ENGINEERING COLLEGE

COMPUTER SCIENCE ENGINEERING

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# Completed the project named as Phase 5

FRONT END TECHNOLOGY
PORTFOLIO WEBSITE

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# Phase 5 — Project Demonstration & Documentation

The fifth and final phase of the project involves the **demonstration**, **documentation**, and **submission** of the completed Portfolio Website. This stage consolidates the work done in earlier phases from requirement analysis and design to implementation and deployment and presents it as a complete, functioning system.

The Portfolio Website is now ready for demonstration, supported by comprehensive documentation, technical setup instructions, screenshots, and a detailed report. The primary goal of this phase is to ensure that the website is **fully functional**, **user-friendly**, and **professionally presented** for evaluators, recruiters, or peers.

## 1. Final Demonstration Walkthrough

The **final demo walkthrough** plays a vital role in showcasing the working model of the website. It allows users and evaluators to explore the website's key functionalities, user interface, and responsiveness.

#### **Demonstration Objectives:**

- To verify that all major features are implemented and working as intended.
- To highlight the responsiveness and visual design of the website.
- To showcase user interaction and backend data handling.
- To demonstrate ease of use for non-technical users through WordPress customization.

#### **Step-by-Step Demo Flow:**

#### 1. Homepage Overview:

The demonstration begins on the homepage, where the user is greeted with a clean layout featuring a profile image, name, tagline, and navigation menu. This section demonstrates the use of headers, banners, and animations to capture attention.

## 2. About Page:

The presenter navigates to the About section, which provides a structured overview of the individual's biography, educational background, certifications, and technical skills. The smooth transitions and readability are highlighted.

#### 3. Portfolio Page:

This section displays various projects using image grids and short descriptions. Each project card links to either a GitHub repository or a live demo. The responsive layout ensures that the project gallery adjusts seamlessly to different screen sizes.

#### 4. Contact Page:

The demonstration continues with the contact page, featuring a functional

contact form (Name, Email, and Message). Submitting the form successfully triggers a backend process that sends an email to the website owner using the configured SMTP settings.

#### 5. Admin Dashboard:

The presenter logs into the WordPress dashboard to demonstrate how easily new posts, projects, and content can be added or modified. This ensures that even users with minimal technical skills can manage the website effectively.

#### 6. **Responsive View Check:**

The demo concludes with a mobile and tablet view test, confirming that the website maintains its structure, fonts, and elements across all devices.

The final walkthrough confirms that the website is **functional**, **aesthetic**, **and accessible**, aligning with modern web standards.

## 2. Project Report

The **final project report** acts as an official record of the project lifecycle. It compiles all the work done across multiple phases and provides a complete understanding of the project's purpose, design, implementation, and results.

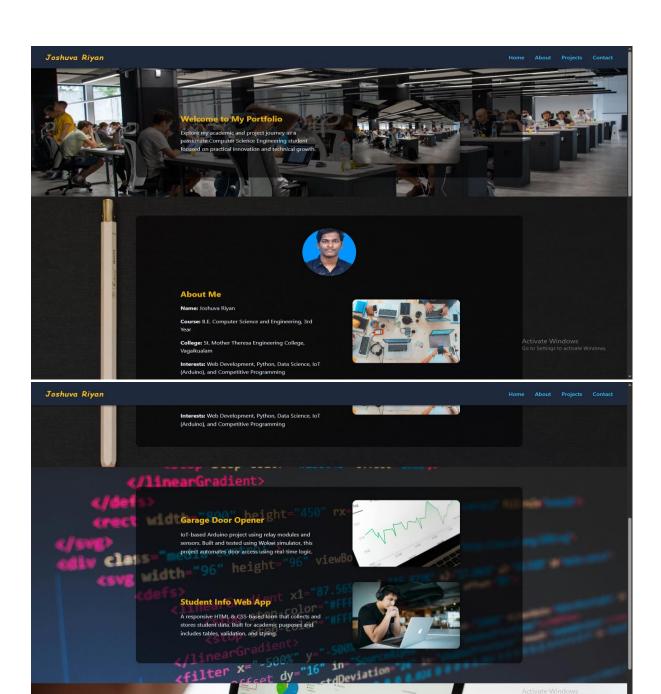
#### **Contents of the Project Report:**

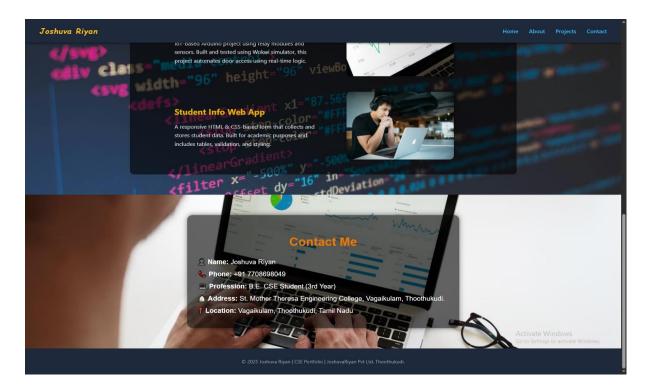
- 1. **Title Page** Project title, author name, roll number, department, and institution details.
- 2. **Abstract** A concise summary of the project objectives, tools used, and outcomes.
- 3. **Phase 1: Requirement Analysis** Problem identification, user needs, and scope.
- 4. **Phase 2: Design & Architecture** UI wireframes, theme selection, and database design.
- 5. **Phase 3: Implementation** Coding process, feature setup, and testing results.
- 6. **Phase 4: Enhancement & Deployment** Added functionalities, optimization, and hosting.
- 7. **Phase 5: Demonstration & Documentation** Final testing, screenshots, GitHub setup, and submission.
- 8. **Conclusion & Future Scope** Summary of achievements and possible future improvements.

Each section of the report is written in detail, including figures, screenshots, and testing outcomes to give a complete picture of the project.

#### 3. Screenshots and API Documentation

#### **Screenshots:**





#### **API Documentation Link:**

https://github.com/whiteman2243-coder/NM-PROJECT-1.git

# 4. Challenges and Solutions

During development, several **technical and functional challenges** were faced. The following table summarizes key challenges and how they were resolved:

Challenge	Description	Solution Implemented
Theme	The selected WordPress	Used Elementor Page Builder for
customization	theme lacked some custom	drag-and-drop design flexibility
limitations	sections	
Slow website	Large image sizes affected	Optimized images using TinyPNG
loading	performance	and activated caching plugins
Email delivery	Default PHP mail was	Integrated WP Mail SMTP plugin
failures	unreliable	with Gmail API
Maintaining	Some elements broke on	Adjusted CSS breakpoints using
responsiveness	smaller screens	Elementor's responsive settings
Deployment	Issues in hosting WordPress	Used alternative free hosting
errors	on Netlify	platform (000webhost / Infinity
		Free) for stable deployment

These solutions ensured that the website achieved optimal performance and user satisfaction.

## 5. GitHub Repository and Setup Guide

To ensure transparency and future usability, the project is hosted on **GitHub**. The repository contains source code, media assets, documentation, and deployment instructions.

#### **Repository Details:**

- **Platform:** GitHub
- **Repository Name:** https://github.com/whiteman2243-coder/NM-PROJECT-1.git
- Contents:
  - o /wp-content/themes theme customization files
  - o /uploads media and images
  - /docs documentation and screenshots
  - o README.md setup and usage guide

## **Setup Guide:**

1. Clone the repository using:

git clone:

https://github.com/whiteman2243-coder/NM-PROJECT-1/blob/main/JOSHUA.html

- 2. Install WordPress on local or web hosting.
- 3. Import the theme and configure the required plugins.
- 4. Set up contact form settings and database.
- 5. Run the website and verify functionality.

The GitHub README includes screenshots, credits, and a deployed link for quick access.

#### 6. Final Submission Deliverables

The final submission package includes the following materials:

- **GitHub Repository Link** <a href="https://github.com/whiteman2243-coder/NM-PROJECT-1.git">https://github.com/whiteman2243-coder/NM-PROJECT-1.git</a>
- Deployed Website Link -

https://github.com/whiteman2243-coder/NM-PROJECT-1/blob/main/JOSHUA.html

- **Final Project Report (PDF)** Full documentation with screenshots.
- **Presentation Slides** Summary of features, screenshots, and key results.

These deliverables ensure that both evaluators and users can view, analyze, and reuse the work effectively.