



IBM

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COMPLETED THE PROJECT NAMED AS

PHASE5 - FE

PROJECT NAME: PORTFOLIO WEBSITE

SUBMITTED BY:

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PROJECT TITLE : PORTFOLIO WEBSITE

PORTFOLIO WEBSITE Project Report:

Introduction:

The portfolio website is designed to **showcase the professional work and skills** of the developer. It serves as an online resume, project showcase, and contact platform. Built using **WordPress** as the core CMS, it leverages **themes, plugins, and the WordPress customizer** to create a responsive, visually appealing, and functional portfolio.

Objective:

- Display personal and professional information in an organized format
- Showcase projects with galleries and sliders
- Enable visitors to contact via forms
- Provide an intuitive navigation experience

Problem Statement:

In today's digital world, professionals and freelancers need an **online presence** to showcase their skills, projects, and experience. Many individuals lack a structured platform to display their work in a **visually appealing, organized, and interactive manner**.

The main challenges are:

1. **No centralized platform** to present personal skills, projects, and achievements.
2. **Difficulty in creating a professional website** without programming knowledge.
3. **Need for interactive features** like galleries, sliders, and contact forms for visitor engagement.
4. **Responsive design requirement**, ensuring the website works well on desktops, tablets, and mobile devices.

Motivation:

In the modern professional world, having an **online portfolio** is essential to showcase skills, experience, and completed projects. Many employers, clients, and collaborators first review a candidate's work online before making any decisions.

The motivation behind creating this portfolio website is:

- To **establish a personal online presence** that highlights skills and achievements.
- To **showcase projects in an organized and visually appealing way**, making it easier for clients and employers to evaluate work.
- To **gain practical experience with WordPress**, including theme customization, page creation, plugin integration, and responsive design.
- To create a **professional platform without relying on extensive coding**, making it accessible and manageable.

This portfolio serves both as a **professional showcase** and a **learning project** to understand website development, content management, and user experience.

Scope:

The scope of this project defines what the portfolio website covers and its potential use:

1. Core Features:

- a. Home page with an introduction and featured projects
- b. About page with personal information, skills, and experience
- c. Projects page with galleries or sliders to showcase work
- d. Contact page with a working contact form and social links

2. Customization & Functionality:

- a. Use of WordPress themes for layout and style
- b. Plugins for galleries, sliders, and forms
- c. Customization of headers, footers, and menus via WordPress Customizer

3. Usability:

- a. Fully responsive design for desktop, tablet, and mobile
- b. Easy navigation through menus and buttons
- c. Interactive elements (buttons, galleries, contact forms)

4. Future Expansion:

- a. Adding blog or articles section for tutorials and insights
- b. Additional portfolio categories for more detailed project organization
- c. Resume/CV download section

Overall: The project provides a **complete professional portfolio website** that can be deployed online, expanded in the future, and serves as a central platform for showcasing personal and professional achievements.

System Design:

1 Architecture Overview

The portfolio website is built on a **WordPress-based architecture** hosted locally on XAMPP (or online via web hosting).

Components:

Component	Description
WordPress Core	CMS framework to manage pages, posts, media, themes, and plugins
Database (MySQL)	Stores all website data: pages, posts, users, plugin settings, form entries
Web Server (Apache)	Handles HTTP requests and serves web pages to browsers
Theme	Controls website layout, design, and responsive styling
Plugins	Extend functionality: sliders, galleries, contact forms
Browser	Front-end interface for users to interact with the website

Flow:

1. User visits the website (e.g., <http://localhost/myportfolio>)
2. Apache server receives the request and fetches data from MySQL
3. WordPress processes the request, applies theme and plugin logic
4. The final HTML/CSS/JS is sent to the user's browser

2 Data Flow Diagram (High-Level)

[User Browser] → [Apache Server] → [WordPress Core] → [MySQL Database]



↓
[Theme + Plugins]

- Users interact via browser
- WordPress dynamically generates pages using data from the database
- Themes define appearance; plugins add extra functionality

Website Design

The website design focuses on **layout, navigation, and user experience**.

1 Layout & Pages

Page	Purpose	Content / Features
Home	First impression & overview	Hero section, brief About, Featured Projects, Call-to-Action
About	Personal introduction	Bio, skills, profile image, experience
Projects	Showcase of work	Project images, descriptions, gallery / slider
Contact	Enable communication	Contact form, email, social links
Optional	Additional sections	Services, Blog, Testimonials, Resume

2 Navigation & User Flow

- **Main Menu:** Links to Home, About, Projects, Contact
- **Buttons:** Direct users to specific pages (e.g., “View Projects” on Home/About page)
- **Footer:** Contains quick links, social icons, and contact info

3 Responsive Design

- Theme ensures the website **adjusts for desktop, tablet, and mobile**
- Images, galleries, and sliders are optimized for all screen sizes
- Buttons and forms remain accessible and functional on smaller devices

4 Color & Visual Design

- Clean, minimalistic design for professionalism
- Consistent typography across pages
- Highlighted call-to-action buttons for navigation

5 Plugins & Functionality Integration

- **Slider Plugin:** To showcase projects dynamically
- **Gallery Plugin:** Organized project display
- **Contact Form Plugin:** Functional form for user inquiries

 **Summary:**
The system design ensures **efficient data flow** and dynamic page generation

using WordPress and MySQL, while the website design emphasizes **user-friendly navigation, responsive layout, and visually appealing project showcase**.

Implementation

The implementation phase focuses on **setting up WordPress, creating pages, adding content, and integrating features** to make the portfolio fully functional.

1 Local Environment Setup

1. Installed **XAMPP** to create a local server environment (Apache + MySQL + PHP)
2. Copied WordPress files into C:\xampp\htdocs\myportfolio
3. Created a **MySQL database** myportfolio_db via phpMyAdmin
4. Configured WordPress installation using the database credentials
5. Created admin account for WordPress Dashboard access

2 WordPress Installation

- Accessed the site at <http://localhost/myportfolio>
- Ran WordPress installation wizard
- Set **site title, admin username, and password**
- Chose default settings to start

3 Theme Setup

1. Dashboard → **Appearance** → **Themes** → **Add New**
2. Installed a **portfolio-friendly theme** (e.g., Astra, OceanWP)
3. Activated the theme
4. Customized appearance:
 - a. Colors, typography
 - b. Header & footer layout
 - c. Menu and navigation

4 Page Creation

Created essential pages using **Gutenberg block editor**:

Page	Content Included
About	Bio, skills list, profile image, experience, why work with me section
Projects	Placeholder gallery or project showcase (to be updated with actual projects)
Contact	Contact form, email, social links

- Added **blocks**: headings, paragraphs, images, lists, galleries, and buttons
- Used **buttons** to link pages (e.g., “View My Projects” → /projects)

5 Plugin Installation

Installed plugins to enhance website functionality:

Plugin	Purpose
--------	---------

Smart Slider 3	Create dynamic sliders for featured projects
Envira Gallery / NextGEN	Display projects in organized gallery layouts
Contact Form 7 / WPForms	Create interactive contact form for visitors

- Configured each plugin as per page requirements
- Added galleries and forms to relevant pages

6 Customization via Customizer API

- Dashboard → **Appearance** → **Customize**
- Modified header: site logo, site title, menu
- Modified footer: copyright info, social links
- Set homepage layout, colors, typography, and button styles

7 Navigation and Linking

- Created **main menu**: Home, About, Projects, Contact
- Added **buttons and links** between pages for smooth user flow
- Verified **responsive design** for mobile, tablet, and desktop

8 Testing & Preview

- Previewed pages in **different browsers and devices**
- Checked:
 - Button links and navigation
 - Gallery layout

- Contact form submission
- Responsiveness and visual alignment

9 Final Deployment Preparation (Optional)

- For local testing: website accessible via
<http://localhost/myportfolio>
- For live deployment:
 - Export database
 - Upload WordPress files to hosting server
 - Import database and configure wp-config.php

💡 Summary:

The implementation demonstrates a **step-by-step approach** to creating a **fully functional, professional WordPress portfolio website**. Key points include:

- Setting up local server and WordPress
- Installing and customizing a theme
- Creating pages with content blocks
- Integrating plugins for sliders, galleries, and forms
- Linking pages with buttons and menus
- Testing responsiveness and functionality

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Open My Portfolio</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }

    .container {
      text-align: center;
      background-color: #fff;
      padding: 30px;
      border-radius: 10px;
      box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    }
  </style>
</head>
<body>
  <div class="container">
    <h1>Open My Portfolio</h1>
    <p>A simple portfolio website template built with HTML and CSS.</p>
    <ul>
      <li><a href="#">Home</a></li>
      <li><a href="#">About</a></li>
      <li><a href="#">Services</a></li>
      <li><a href="#">Portfolio</a></li>
      <li><a href="#">Contact</a></li>
    </ul>
  </div>
</body>
</html>
```

```
}
```

```
h1 {  
    font-size: 2.5rem;  
    color: #333;  
}
```

```
p {  
    font-size: 1.2rem;  
    color: #555;  
    margin-bottom: 20px;  
}
```

```
.cta-button {  
    background-color: #0056b3;  
    color: #fff;  
    text-decoration: none;  
    padding: 10px 20px;  
    border-radius: 5px;  
    font-size: 1.1rem;  
}
```

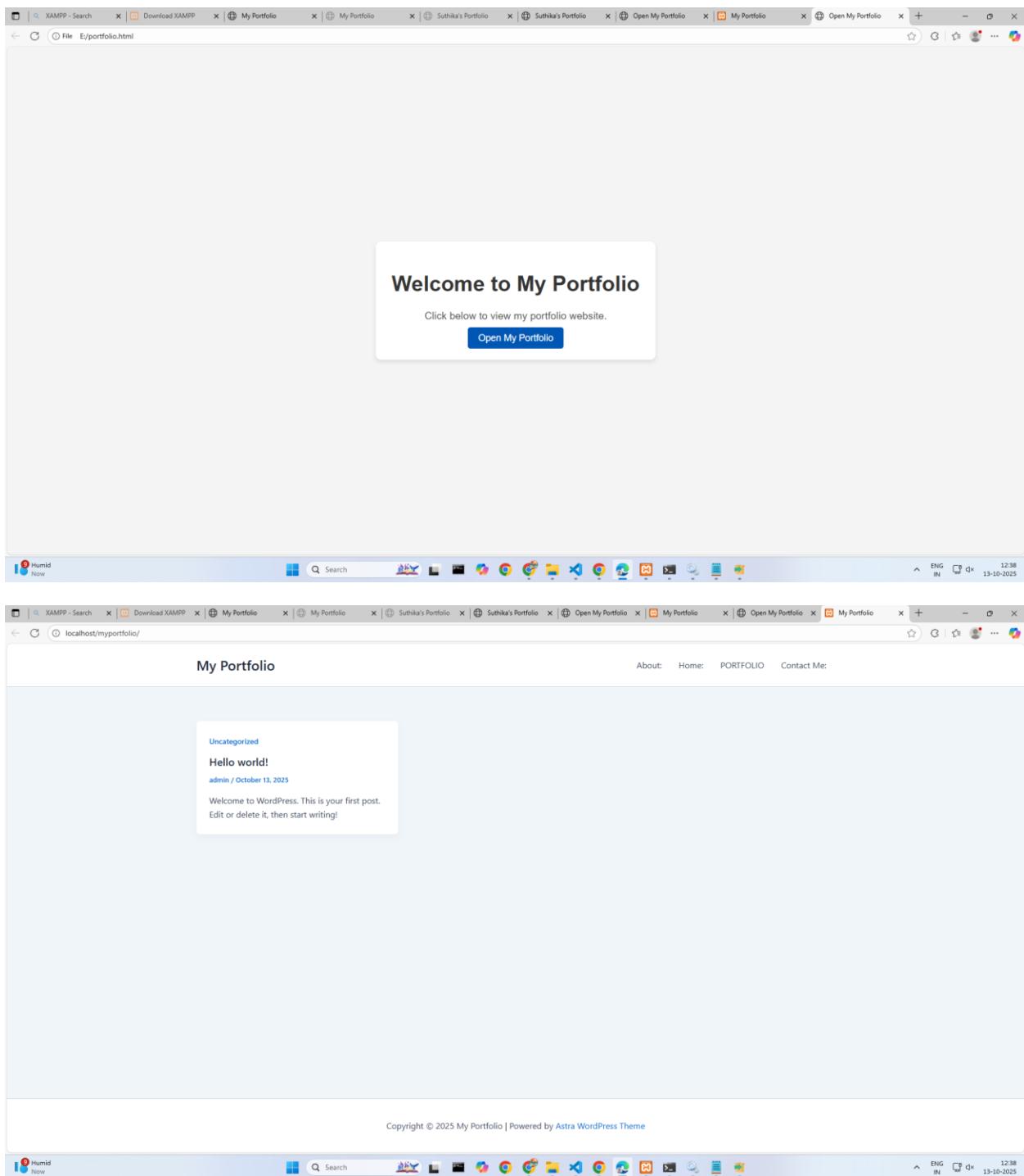
```
.cta-button:hover {  
    background-color: #003f7f;  
}
```

```
</style>
</head>
<body>

<div class="container">
    <h1>Welcome to My Portfolio</h1>
    <p>Click below to view my portfolio website.</p>
    <a href="http://localhost/myportfolio" class="cta-
button" target="_blank">Open My Portfolio</a>
</div>

</body>
</html>
```

Output:



SUTHIKA'S PORTFOLIO

localhost/myporfolio/about/

My Portfolio Suthika's Portfolio Open My Portfolio My Portfolio Open My Portfolio About - My Portfolio

About Home PORTFOLIO Contact Me

About:

About Me:



Hello! I'm Suthika, a Web Developer and Designer passionate about crafting stunning, functional, and user-friendly websites. I specialize in WordPress development, front-end design, and creating online portfolios that help individuals and businesses showcase their work effectively.

My Skills

- WordPress Development & Customization

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SUTHIKA'S PORTFOLIO Suthika's Portfolio Open My Portfolio My Portfolio Open My Portfolio Home - My Portfolio

localhost/myporfolio/home/

My Portfolio Suthika's Portfolio Open My Portfolio My Portfolio Open My Portfolio Home - My Portfolio

About Home PORTFOLIO Contact Me

Home:

Heading:
Hi, I'm an Web Developer & Designer.

What I do:

I love Creating responsive, user-friendly websites to bring your ideas to life.
I specialize in crafting modern websites using the latest technologies. Whether you're looking for a personal portfolio or a business website, I'm here to help you design something that works seamlessly on any device.

I'm a passionate web developer with expertise in both front-end and back-end technologies. My goal is to build websites that are not only visually appealing but also highly functional. With a strong foundation in HTML, CSS, JavaScript, and WordPress, I ensure that every site I build is optimized for performance and user experience.

For More Info:
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Also contact us on:

- LinkedIn
- GitHub
- Instagram
- Twitter

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The screenshot shows a web browser window with multiple tabs open, all related to a portfolio project. The main content area displays a dark-themed landing page with a large blue central section. The text "Hi, I'm Suthika" and "Web Developer & Designer" is visible, along with a "View My Work" button. The top navigation bar includes links for Home, About, Projects, and Contact.

The screenshot shows the "About Me" page of the portfolio website. It features a dark header and a light blue main content area. The title "About Me" is at the top, followed by a brief description of the developer's skills and experience. Below this, there is a section titled "My Projects" containing three cards: "Portfolio Website", "E-commerce Website", and "Blog Platform".

About Me

I'm a passionate web developer with experience in building responsive and user-friendly websites. I specialize in front-end development and creating user-focused designs.

My Projects

Portfolio Website
A responsive, custom-built portfolio website showcasing my work as a web developer. Built with HTML, CSS, JavaScript, and hosted on GitHub Pages.

E-commerce Website
An e-commerce website built with WordPress and WooCommerce, featuring product listings, shopping cart functionality, and secure payment gateway integration.

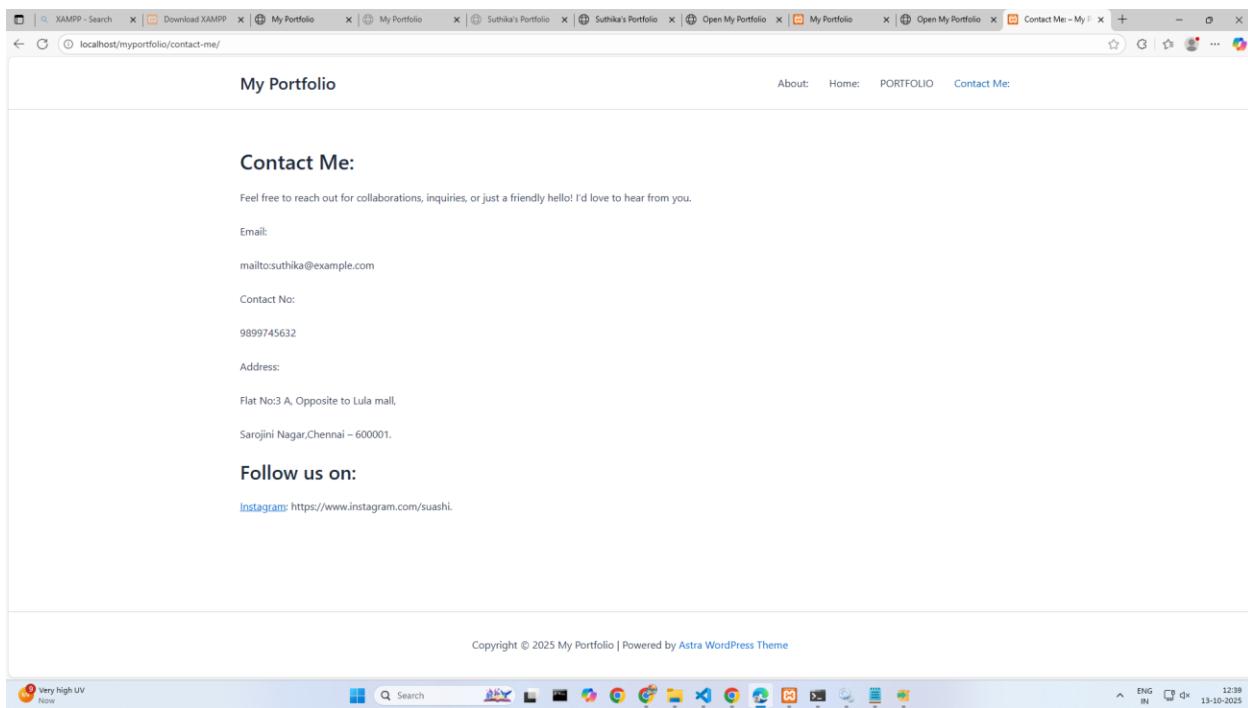
Blog Platform
A custom-built blog platform with a content management system, allowing users to create and manage blog posts, leave comments, and share articles.

Contact Me

Feel free to reach out for collaborations or inquiries.

[Email Me](#)

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Challenges

During the development of the WordPress portfolio website, several challenges were encountered. Setting up WordPress locally using XAMPP was initially confusing for first-time users, including configuring Apache, MySQL, and creating the database. Linking buttons and menu items correctly to the respective pages required careful attention. Displaying projects in a visually appealing and organized manner without coding knowledge was another challenge. Customizing the header and footer to match personal branding while maintaining responsiveness was also difficult. Additionally, ensuring the website worked seamlessly across desktops, tablets, and mobile devices, creating functional contact forms, and managing plugin compatibility for sliders and galleries posed challenges during development.

Solutions

These challenges were successfully addressed using practical methods and WordPress tools. The local setup issue was resolved by carefully installing XAMPP, configuring Apache and MySQL, and linking a database through phpMyAdmin. Buttons and menus were correctly linked using Gutenberg button blocks and the WordPress menu editor. Project display was enhanced by installing and configuring gallery plugins such as Envira Gallery or NextGEN Gallery. Header and footer customization was achieved through the WordPress Customizer API and theme settings. Responsiveness was ensured by selecting a mobile-friendly theme and testing on multiple devices, while contact forms were implemented using plugins like Contact Form 7 or WPForms. Finally, plugin compatibility was maintained by testing each plugin individually and configuring settings to prevent conflicts.

Conclusion:

The WordPress portfolio website project successfully demonstrates the **creation of a professional online portfolio** that highlights skills, projects, and contact information. By leveraging **WordPress as a content management system**, along with **themes, plugins, and the Customizer API**, the project showcases how a functional, responsive, and visually appealing website can be developed **without extensive coding knowledge**.

Key achievements of the project include:

- **Organized presentation of personal and professional information** through About, Projects, and Contact pages
- **Interactive and dynamic features** like galleries, sliders, and contact forms using plugins

- **Responsive design**, ensuring accessibility on desktops, tablets, and mobile devices
- **Ease of navigation**, with clearly structured menus and actionable buttons
- **Scalable framework**, allowing future expansion with additional pages, blog sections, or portfolio categories

The project also provided **hands-on experience with website development** using WordPress, understanding of local server setup (XAMPP), and practical knowledge in **theme customization, plugin integration, and content management**.

Overall, this portfolio website serves as a **professional online presence** that can be deployed to showcase skills and projects to potential clients, employers, or collaborators, meeting the primary objectives of creating a modern and functional digital portfolio.

Final Submission:

Repository link:

<https://github.com/ssivarani/portfolio-website>

Deployment link:

<https://ssivarani.github.io/portfolio-website/>