

Established – 1961

Subject: WEB PROGRAMMING

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CERTIFICATE

This is to certify that Mr./Ms. HARSHIT RAVI TIWARI of F.Y. Information Technology (FYIT) Roll No. 2541053 has satisfactorily completed the Web Designing Mini Project entitled PORTFOLIO WITH REAL TIME GREETING AND USER-INPUT during the academic year 2025 – 2026, as a part of the practical requirement. The project work is found to be satisfactory and is approved for submission.

PROF. INCHARGE

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Topic - Portfolio With Real-time Greeting & user Input

1. INTRODUCTION

In today's digital era, having a personal portfolio website has become essential for students and professionals to showcase their skills, knowledge, and creativity. A portfolio website acts as a digital resume and helps individuals present their work, technical abilities, and contact information in a professional and attractive manner.

The **Professional Portfolio Website** project is designed to create a simple, responsive, and user-friendly web page that represents an individual's professional profile. This website includes sections such as About Me, Skills, and Contact, allowing visitors to easily understand the person's background and expertise. The project focuses on clean design, smooth animations, and basic interactivity to enhance user experience.

This project is developed using **HTML** for structuring the content, **CSS** for styling and layout design, and **JavaScript** for adding dynamic behavior such as real-time greeting messages, user interaction through input fields, and scroll-based animations. The website adapts well to different screen sizes and provides an engaging interface.

The main objective of this project is to apply web designing concepts learned during the course and to gain practical experience in building a real-world web application. This project helps in understanding the integration of frontend technologies and improves creativity, design sense, and problem-solving skills.

2. REQUIREMENT SPECIFICATION

Requirement specification describes the resources and tools needed to develop and run the project successfully. For the **Professional Portfolio Website**, both hardware and software requirements are minimal, making the project easy to implement and use.

2.1 Hardware Requirements

The following hardware components are required to develop and run the project:

- Computer or Laptop
- Minimum 4 GB RAM
- Keyboard and Mouse
- Internet connection (for testing and reference)

2.2 Software Requirements

The software requirements for this project are:

- Operating System: Windows 10 or above
- Web Browser: Google Chrome, Mozilla Firefox, or Microsoft Edge Code Editor: Visual Studio Code / Notepad++ / Any text editor Technologies Used: HTML5
 - CSS3
 - JavaScript

2.3 Functional Requirements

The system should be able to:

- Display a professional portfolio webpage
- Show a real-time greeting message based on the time of day
- Accept user name input and display a welcome message
- Display sections such as About, Skills, and Contact
- Apply animations while scrolling
- Provide a responsive and user-friendly interface

2.4 Non-Functional Requirements

The system should ensure:

- Simple and clean user interface
 - Fast loading time
 - Browser compatibility
 - Easy navigation
 - Good visual appearance
-

3. SYSTEM DESIGN

System design explains how the overall system is structured and how different components work together. The **Professional Portfolio Website** follows a simple client-side architecture where all processing is done in the user's web browser.

3.1 System Architecture

The system is designed using a basic three-layer structure:

- **Presentation Layer:**
This layer is created using HTML and CSS. It is responsible for displaying content such as navigation bar, hero section, about section, skills section, and contact details.
- **Logic Layer:**
JavaScript is used in this layer to handle dynamic functionality such as real-time greeting based on time, accepting user input, displaying welcome messages, button animations, and scroll-based effects.
- **Client Layer:**
The entire website runs on the client's web browser without requiring a server or database.

3.2 Module Description

The system is divided into the following modules:

1. **Navigation Module**

Provides links to different sections of the webpage such as About, Skills, and Contact for easy navigation.

2. Greeting Module

Displays a greeting message like Good Morning, Good Afternoon, or Good Evening based on the current time using JavaScript.

3. User Interaction Module

Accepts user name input and displays a personalized welcome message when the button is clicked.

4. Content Display Module

Displays information about the user, skills, and contact details in a structured and readable format.

5. Animation Module

Handles button pulse animation and scroll-reveal animations for sections and skill cards.

3.3 Flow of System

1. User opens the website in a web browser.
2. The greeting message is displayed based on the current time.
3. User enters their name and clicks the continue button.
4. A personalized welcome message is shown.
5. User scrolls through the page and animations are triggered.
6. User can view skills and contact information.



4. SYSTEM IMPLEMENTATION

System implementation describes how the project is actually developed using selected technologies and tools. The **Professional Portfolio Website** is implemented using frontend web technologies that run directly in the web browser.

4.1 Implementation Using HTML

HTML (HyperText Markup Language) is used to create the structure of the website. It defines the layout and content of different sections such as:

- Navigation bar with menu links
- Hero section with greeting message and title
- About section describing the user
- Skills section displaying technical skills
- Contact section with contact details
- Footer section

HTML provides a semantic and organized structure to the webpage.

4.2 Implementation Using CSS

CSS (Cascading Style Sheets) is used to design and style the website. It improves the visual appearance and user experience by applying:

- Colors, fonts, and spacing
- Responsive layout using flexible grids
- Background gradients and shadows
- Button hover and pulse animations
- Scroll-based animations for sections and skills

CSS ensures the website looks professional and visually attractive.

4.3 Implementation Using JavaScript

JavaScript is used to add interactivity and dynamic behavior to the website. The following functionalities are implemented using JavaScript:

- Displaying greeting messages based on current time
- Accepting user name input and displaying a welcome message
- Adding pulse animation to the button
- Implementing scroll reveal animations for sections and skill items

JavaScript makes the website interactive and user-friendly.

4.4 Tools Used

- Visual Studio Code for writing code
- Web Browser for testing and execution

Here is the code used to create Portfolio

HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Professional Portfolio</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

  <!-- Navigation -->
  <nav>
    <h1 class="logo">Harshit Ravi Tiwari</h1>
    <ul>
      <li><a href="#about">About</a></li>
      <li><a href="#skills">Skills</a></li>
      <li><a href="#contact">Contact</a></li>
    </ul>
  </nav>

  <!-- Hero Section -->
  <header class="hero">

    <h1 id="greeting"></h1>
    <p id="username"></p>

    <div class="input-box">
```

```

<input type="text" id="nameInput" placeholder="Enter your name">
<button onclick="showName()">Continue</button>
</div>
</header>

<!-- About -->
<section id="about" class="section animate-section">
<h2>About Me</h2>
<p>
    I am a creative and detail-oriented web designer with a passion for
    crafting clean, responsive, and user-friendly web experiences.
</p>
</section>

<!-- Skills -->
<section id="skills" class="section gray animate-section">
<h2>Skills</h2>
<div class="skills-grid">
    <span>HTML5</span>
    <span>CSS</span>
    <span>JavaScript</span>
    <span>Responsive Design</span>
    <span>UI / UX Design</span>
</div>
</section>

<!-- Contact -->
<section id="contact" class="section animate-section">
<h2>Contact</h2>
<p>Contact And Whatsapp No: 9021071353</p>
<p>Email: yourname@email.com</p>
<p>LinkedIn | GitHub</p>
</section>

<!-- Footer -->
<footer>
    <p>© 2026 [HRT]. All Rights Reserved.</p>
</footer>

<script>

</script>
<script src="script.js"></script>

</body>
</html>

```

CSS

```

*{ margin:0; padding:0; box-
sizing:border-box; font-
family:"Segoe UI",sans-serif
}
body{background:#f8f9fc;color:#333}

```

```
/* NAV */ nav{ display:flex;
justify-content:space-between;
align-items:center;
padding:20px 10%;
background:#fff;
box-shadow:0 2px 10px rgba(0,0,0,.05)
}
.logo{font-size:24px;font-weight:700;color:#4f46e5}
nav ul{display:flex;list-style:none}
nav li{margin-left:20px}
nav a{text-decoration:none;color:#333;font-weight:500}

/* HERO */ .hero{
text-align:center;
padding:90px 20px;
background:linear-gradient(90deg,#4f46e5,#6366f1);
color:#fff
}
.hero h1{font-size:36px;margin:10px 0}
.hero p{margin-top:10px;font-size:18px}
.input-box{margin-top:25px}

/* INPUT + BUTTON
*/
input{
padding:12px;
width:220px;
border:none; border-radius:6px;
outline:none;
font-size:15px
}
button{
position:relative;
padding:12px 22px;
margin-left:10px;
border:none; border-radius:6px;
background:#ffdd57;
color:#1f2937; font-weight:600;
cursor:pointer;
overflow:hidden;
transition:.2s
}
button:hover{
transform:translateY(-3px);
box-shadow:0 8px 20px rgba(0,0,0,.15)
}
button:active{
transform:none;
box-shadow:0 4px 10px rgba(0,0,0,.2)
}
button::after{
content:"";
position:absolute;
inset:0; left:-100%;
background:linear-gradient(120deg,transparent,rgba(255,255,255,.6),transparent);
transition:.5s
}
```

```
button:hover::after{left:100%}

/* PULSE */
@keyframes pulse{
  0%{box-shadow:0 0 0 rgba(255,221,87,.7)}
  70%{box-shadow:0 0 15px transparent}
  100%{box-shadow:0 0 0 transparent}
}
.pulse{animation:pulse 2s ease-out}

/* SECTIONS */
.section{
padding:70px 10%;
text-align:center
}
.section h2{margin-bottom:20px;color:#4f46e5}
.section p{ max-width:700px; margin:auto;
line-height:1.6
}
.gray{background:#eef2ff}

/* SKILLS */
.skills-grid{ display:grid; grid-template-columns:repeat(auto-fit,minmax(150px,1fr)); gap:20px;
margin-top:30px
}
.skills-grid span{ background:#fff;
padding:15px; border-radius:8px;
font-weight:500; box-shadow:0 4px 12px rgba(0,0,0,.05); opacity:0;
transform:scale(.9); transition:.5s
}
.skills-grid span.show{
opacity:1;
transform:scale(1)
}

/* SCROLL ANIMATION */
.animate-section{
opacity:0;
transform:translateY(40px);
transition:.8s
}
.animate-section.show{
opacity:1;
transform:none
}

/* FOOTER */
footer{ text-align:center;
padding:20px;
background:#fff;
font-size:14px
}
```

Javascript

```

// =====
// REAL-TIME GREETING
// =====
function setGreeting() {

}

// =====
// SHOW USER NAME + BUTTON PULSE
// =====
function showName() { const nameInput =
document.getElementById("nameInput"); const username =
document.getElementById("username"); const button =
document.querySelector("button");

const name = nameInput.value.trim();

if (name !== "") {
    username.textContent = `Welcome, ${name}. Glad to have you here.`;

    button.classList.remove("pulse");
    void button.offsetWidth;
    button.classList.add("pulse");
}
}

// =====
// SCROLL REVEAL ANIMATIONS //
=====

function revealOnScroll() {
    const sections = document.querySelectorAll(".animate-section");
    const skills = document.querySelectorAll(".skills-grid span");
    const triggerPoint = window.innerHeight * 0.85;

    sections.forEach(section => {
        if (section.getBoundingClientRect().top < triggerPoint) {
            section.classList.add("show");
        }
    });

    skills.forEach((skill, index) => {
        if (skill.getBoundingClientRect().top < triggerPoint) {
            setTimeout(() => {
                skill.classList.add("show");
            }, index * 120);
        }
    });

    });
}

// =====
// ON LOAD
// =====
window.addEventListener("load", () => {
    setGreeting();
}

```

```

const button = document.querySelector("button");
button.classList.add("pulse");

revealOnScroll();
};

// =====
// ON SCROLL
// =====
window.addEventListener("scroll", revealOnScroll);

function updateGreeting() { const
hour = new Date().getHours();
let text = "";

if (hour >= 5 && hour < 12) {
  text = "Hello, Good Morning ☀";
}
else if (hour >= 12 && hour < 17) {
  text = "Hello, Good Afternoon ○";
}
else if (hour >= 17 && hour < 19) {
  text = "Hello, Good Evening 🌙";
}
else {
  text = "Hello, Good Night 🌚";
}

document.getElementById("greeting").innerHTML = text;
}

// Page load
updateGreeting();

// Har 1 minute me check karega (stable rahega)
setInterval(updateGreeting, 300);

```

5. SYSTEM TESTING AND RESULTS

System testing is performed to ensure that the website functions correctly and meets all specified requirements. Various test cases were conducted during development to verify functionality, appearance, and performance.

5.1 Testing Method

The project was tested manually by running the website on different web browsers and screen sizes to check its responsiveness and functionality.

5.2 Test Cases

Test Case	Description	Expected	Actual
		Result	Result
Greeting Display	Check greeting	Correct greeting Passed based on time	shown Welcome
Name Input	Enter user name	message	Passed and click button displayed
Navigation Links	Click menu links	Scrolls to correct section Animations	Passed
Animations	Scroll through page	appear smoothly	Passed
Browser Compatibility	Open in different	Website loads Passed browsers	correctly

5.3 Result

All test cases were successfully executed, and the project performed as expected. The website was found to be user-friendly, responsive, and visually appealing. No major errors or bugs were detected during testing.

6. FUTURE SCOPE AND CONCLUSION

6.1 Future Scope

The **Professional Portfolio Website** can be further enhanced in the future by adding more advanced features. Some possible improvements include:

- Adding more sections such as Projects, Resume, and Certifications
- Integrating a contact form with backend support
- Adding dark mode feature
- Improving animations and visual effects
- Hosting the website online using a domain and web hosting service
- Making the website fully dynamic using frameworks or backend technologies

These enhancements will make the portfolio more interactive and professional.

6.2 Conclusion

The **Professional Portfolio Website** project successfully demonstrates the practical application of web designing concepts using HTML, CSS, and JavaScript. The project provides a simple yet effective way to showcase personal and professional information in a structured manner.

Through this project, essential skills such as webpage structuring, styling, and adding interactivity were learned and implemented. The website is responsive, easy to use, and visually appealing. This project fulfills the objectives of the FYIT Web Designing Mini Project and meets all the required practical standards.

7. REFERENCES

The following references were used for understanding concepts and implementing the project:

- W3Schools – HTML, CSS, and JavaScript tutorials
- MDN Web Docs – JavaScript and CSS reference
- Online articles and documentation related to web designing
- Class notes and practical guidance provided by the college
- Chatgpt to find error in the program and to make the project look professional

These references helped in understanding frontend development concepts and best practices.

8. GLOSSARY

Term	Description
HTML :	HyperText Markup Language used to structure web pages
CSS :	Cascading Style Sheets used to style web pages
JavaScript :	Programming language used to add interactivity
Portfolio :	A collection of work showcasing skills and experience
Responsive Design	: Designing websites that work on all screen sizes
UI :	User Interface
UX :	User Experience
Browser :	Software used to access websites
