

Established – 1961

Subject: WEB DESIGNING

**SEVA SADAN'S**

**R. K. TALREJA COLLEGE**

**OF**

**ARTS, SCIENCE & COMMERCE**

**ULHASNAGAR – 421 003**



**CERTIFICATE**

This is to certify that Mr./Ms. PRANAV SANJAY KSHIRSAGAR of F.Y. Information Technology (FYIT) Roll No. 2541019 has satisfactorily completed the Web Designing Mini Project entitled Portfolio with jQuery Fade and Slide Section Effects 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**

SAHIL SHUKLA

**HEAD OF DEPT**

PROF. LAXMI JESWANI

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## **INTRODUCTION:**

The Personal Portfolio Website is a responsive and interactive web application developed to showcase the skills, projects, and professional profile. This website serves as a digital resume and an online professional identity platform, allowing visitors, recruiters, and academic evaluators to learn about his technical expertise, academic projects, and contact information in a structured and visually appealing manner. Built using HTML5, CSS3, JavaScript, and the jQuery library, the website incorporates modern design elements such as smooth scrolling navigation, typing text animation, section fade-in effects using the Intersection Observer API, and responsive layouts for different screen sizes. The project demonstrates practical implementation of front-end development concepts while providing an effective medium to present skills, creativity, and technical capabilities in a professional format.

## **REQUIREMENT SPECIFICATION:**

This portfolio website requires basic web development requirement like code editor (editor used: Acode in android, Notepad in computer) and the modern web browser to run the portfolio smoothly. The HTML5 is use to build a structure, CSS is use for styling and javascript to make it usable (ex. Animation, etc.). Inline css and javascript is used in it. The main file name is index.html and all css and javascript component are included in it.

Mainly the Acode Editor is use for the structure, styling and javascript. Animation like typewriter, floating images, etc are used to make portfolio look more attractive. The Acode shows the project in localhost but website like Netlify and GitHub is use to live host the project.

# **SYSTEM DESIGN:**

## **System Design**

- The system follows a **client-side web architecture**.
- It does not require a backend server or database.
- The website runs completely in the user's web browser.

## **Technologies Used**

- HTML5 – Structure of the website
- CSS3 – Styling and layout design
- JavaScript – Functionality and interactivity
- jQuery – Smooth scrolling and DOM manipulation
- Intersection Observer API – Fade-in animation effects

## **Modules of the System**

- **Navigation Module**
  - Fixed top navigation bar
  - Smooth scrolling between sections
- **Home Module**
  - Typing text animation
  - Animated profile image
  - Resume download button
- **About Module**
  - Displays personal information
  - Highlights interests and skills
- **Projects Module**
  - Responsive grid layout
  - Project cards with GitHub links
- **Contact Module**
  - Email link
  - Social media links (Facebook, GitHub, Instagram)

## **Design Features**

- Responsive layout using media queries
- Smooth animations and transitions
- Glassmorphism card design
- Background gradient animation

The overall system design is simple, user-friendly, and easy to maintain or enhance in the future.

## **SYSTEM IMPLEMENTATION:**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Pranav Kshirsagar | Portfolio</title>

    <script src="https://code.jquery.com/jquery-
3.6.0.min.js"></script>

<style>
    /* --- RESET & GLOBAL --- */
    * {
        margin: 0;
        padding: 0;
        box-sizing: border-box;
        scroll-behavior: smooth;
    }

    body {
        font-family: 'Segoe UI', Tahoma, Geneva, Verdana,
sans-serif;
        color: #ffffff;
        line-height: 1.6;
        overflow-x: hidden;
        background: #0f0f0f;
    }

    /* --- BACKGROUND --- */
    .bg-overlay {
        position: fixed;
        top: 0;
        left: 0;
```

```
width: 100%;  
height: 100%;  
z-index: -1;  
background: linear-gradient(rgba(0, 0, 0, 0.7), rgba(0, 0,  
0, 0.7)),  
url('https://images.unsplash.com/photo-  
1635776062127-  
d379bfcb9f8?auto=format&fit=crop&q=80&w=2560');  
background-size: cover;  
background-position: center;  
animation: backgroundAnimate 15s infinite alternate  
ease-in-out;  
}  
  
@keyframes backgroundAnimate {  
0% { background-color: #0f0f0f; }  
33% { background-color: #0a1128; }  
66% { background-color: #1a0f1f; }  
100% { background-color: #0f1a1a; }  
}
```

```
/* --- NAVIGATION --- */  
nav {  
position: fixed;  
top: 0;  
width: 100%;  
display: flex;  
justify-content: space-between;  
align-items: center;  
padding: 20px 10%;  
background: rgba(15, 15, 15, 0.7);  
backdrop-filter: blur(20px);  
z-index: 1000;  
border-bottom: 1px solid rgba(255, 255, 255, 0.1);  
}
```

```
.logo { font-size: 1.5rem; font-weight: bold; color: #00d4ff; }

nav ul { display: flex; list-style: none; }
nav ul li { margin-left: 30px; }
nav ul li a { text-decoration: none; color: #bbb; transition: 0.3s; cursor: pointer; }
nav ul li a:hover { color: #00d4ff; }

/* --- SECTION ANIMATIONS --- */
section {
    padding: 100px 10%;
    min-height: 90vh;
    display: flex;
    flex-direction: column;
    justify-content: center;
    opacity: 0;
    filter: blur(20px);
    transform: scale(0.9) translateY(40px);
    transition: all 1.2s cubic-bezier(0.22, 1, 0.36, 1);
    will-change: opacity, filter, transform;
}

section.is-visible {
    opacity: 1;
    filter: blur(0px);
    transform: scale(1) translateY(0);
}

.home-content {
    display: flex;
    align-items: center;
    justify-content: space-between;
    gap: 50px;
}
```

```
/* --- PROFILE IMAGE & ANIMATIONS --- */  
.img-box {  
    position: relative;  
    width: 380px;  
    height: 380px;  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    border-radius: 50%;  
    animation: float 5s ease-in-out infinite;  
}  
  
.img-box::before {  
    content: "";  
    position: absolute;  
    width: 100%;  
    height: 100%;  
    border-radius: 50%;  
    border: 2px dashed #00d4ff;  
    animation: rotateRing 15s linear infinite;  
    opacity: 0.6;  
}  
  
.img-box img {  
    width: 340px;  
    height: 340px;  
    border-radius: 50%;  
    object-fit: cover;  
    border: 4px solid #00d4ff;  
    transition: 0.5s ease;  
    box-shadow: 0 0 20px rgba(0, 212, 255, 0.3);  
    z-index: 2;  
}  
  
.img-box:hover img {
```

```
        transform: scale(1.05);
        box-shadow: 0 0 40px rgba(0, 212, 255, 0.7);
        border-color: #ffffff;
    }

@keyframes float {
    0%, 100% { transform: translateY(0); }
    50% { transform: translateY(-20px); }
}

@keyframes rotateRing {
    from { transform: rotate(0deg); }
    to { transform: rotate(360deg); }
}

/* --- TYPOGRAPHY & BUTTONS --- */
h1 { font-size: 3.5rem; margin-bottom: 10px; }
h1 span { color: #00d4ff; }
.typing-text { font-size: 1.8rem; font-weight: 300; color: #00d4ff; min-height: 40px; }
.cursor { display: inline-block; width: 3px; background-color: #00d4ff; margin-left: 5px; animation: blink 0.7s infinite; }

@keyframes blink { 0% { opacity: 1; } 50% { opacity: 0; }
} 100% { opacity: 1; } }

.section-title { text-align: center; margin-bottom: 40px; }
.about-text { max-width: 800px; margin: 0 auto; font-size: 1.1rem; color: #ccc; text-align: center; }

.btn {
    display: inline-block;
    margin-top: 30px;
    padding: 12px 35px;
    background: #00d4ff;
```

```
        color: #000;
        text-decoration: none;
        border-radius: 5px;
        font-weight: bold;
        transition: 0.3s;
    }
```

```
.btn:hover { color: #fff; transform: translateY(-5px); box-
shadow: 0 10px 20px rgba(0, 212, 255, 0.3); }
```

```
.button {
    background: none;
    border: 2px solid #00d4ff;
    color: white;
    padding: 5px 15px;
    cursor: pointer;
    border-radius: 4px;
    text-decoration: none;
    text-align: center;
}
```

```
.block-btn { display: block; text-align: center; }
```

```
/* --- GRID & CARDS --- */
```

```
.grid { display: grid; grid-template-columns: repeat(auto-fit, minmax(300px, 1fr)); gap: 30px; margin-top: 40px; }
```

```
.card {
    background: rgba(255, 255, 255, 0.03);
    backdrop-filter: blur(5px);
    padding: 25px;
    border-radius: 15px;
    border: 1px solid rgba(255, 255, 255, 0.1);
    transition: 0.3s;
    display: flex;
    flex-direction: column;
```

```
}

.card:hover { border-color: #00d4ff; transform: translateY(-10px); }

.card-img-container {
    width: 100%;
    height: 200px;
    overflow: hidden;
    border-radius: 10px;
    margin-bottom: 20px;
    border: 1px solid rgba(255, 255, 255, 0.05);
}

.card-img-container img {
    width: 100%;
    height: 100%;
    object-fit: cover;
    transition: transform 0.5s ease;
}

.card:hover .card-img-container img { transform: scale(1.1); }

/* --- FOOTER --- */
footer {
    background: rgba(0, 0, 0, 0.8);
    padding: 80px 10%;
    text-align: center;
    color: #555;
}

/* --- RESPONSIVE --- */
@media (max-width: 768px) {
```

```
.home-content { flex-direction: column-reverse; text-align: center; }
.img-box { width: 280px; height: 280px; margin: 0 auto; }
.img-box img { width: 250px; height: 250px; }
h1 { font-size: 2.5rem; }
}
</style>
</head>
<body>

<div class="bg-overlay"></div>

<nav>
  <div class="logo">PRANAVK.</div>
  <ul>
    <li><a href="#home">Home</a></li>
    <li><a href="#about">About</a></li>
    <li><a href="#projects">Projects</a></li>
    <li><a href="#contact">Contact</a></li>
  </ul>
</nav>

<section id="home">
  <div class="home-content">
    <div class="home-text">
      <h1>Hi, I'm <span>Pranav</span></h1>
      <div class="typing-text-container">
        <span class="typing-text"></span><span
class="cursor">&nbsp;</span>
      </div>
      <p style="margin-top: 15px; color: #aaa;">Expert in
building modern, interactive web applications.</p>
      <a href="resume/resume.pdf" class="btn">My
Resume</a>
    </div>
  </div>
</section>
```

```
</div>
<div class="home-image">
  <div class="img-box">
    
  </div>
</div>
</div>
</section>

<section id="about">
  <h1 class="section-title">About Me</h1>
  <p class="about-text">
    I am Pranav Kshirsagar, a passionate BSc IT student with
    a strong interest in technology, web development, and problem-
    solving. I am also passionate about Computer Hardware.</p>
  <br>
  <p class="about-text">My hobbies include Drawing
    sketches, reading novels, and playing cricket. I am a good
    listener and I like to learn new skills that help me grow.</p>
</section>

<section id="projects">
  <h1 class="section-title">My Projects</h1>
  <div class="grid">
    <div class="card">
      <div class="card-img-container">
        
      </div>
      <h3>C PROGRAMMING</h3>
      <h4>Medical Equipment Management System</h4>
      <p>Store the detail of medical equipment</p>
      <br><br>
      <a
        href="https://github.com/Pranav25042005/Medical_Equipment">
```

```
_Management_System" class="button">View</a>
</div>

<div class="card">
  <div class="card-img-container">
    
  </div>
  <h3>OOPS USING C++</h3>
  <h4>Event Management System</h4>
  <p>Store the detail of event like movies, drama and
concert.</p>
  <br><br>
  <a
    href="https://github.com/Pranav25042005/Event_Management
    _System" class="button">View</a>
  </div>
</div>
</section>

<section id="contact">
  <h1 class="section-title">Get In Touch</h1>
  <div class="grid">
    <div class="card">
      <div class="card-img-container"></div>
      <h3>Email</h3>
      <p>I'm always open to discussing new projects.</p>
      <a href="mailto:pranavkshirsagar2505@gmail.com"
class="btn block-btn">Send Mail</a>
    </div>

    <div class="card">
      <div class="card-img-container"></div>
      <h3>Facebook</h3>
    </div>
  </div>
</section>
```

```
<p>To join my journey do follow</p>
<a href="https://www.facebook.com/share/1DojwYpVaF/" class="btn block-btn">Follow Me</a>
</div>

<div class="card">
    <div class="card-img-container"></div>
    <h3>GitHub</h3>
    <p>Check out my latest repositories.</p>
    <a href="https://github.com/Pranav25042005" class="btn block-btn">View Codes</a>
</div>

<div class="card">
    <div class="card-img-container"></div>
    <h3>Instagram</h3>
    <p>Follow my journey outside of coding.</p>
    <a href="https://instagram.com/pranav_kshirsagar05" class="btn block-btn">Follow Me</a>
</div>
</div>
</section>

<footer>
    <p>&copy; 2026 Pranav Kshirsagar</p>
</footer>

<script>
$(document).ready(function() {
    // --- TYPING ANIMATION ---
    const textArray = ["Web Developer", "Hardware Engineer", "Creative Thinker"];

```

```
let textIndex = 0, charIndex = 0;

function type() {
    if (charIndex < textArray[textIndex].length) {
        $('.typing-
text').append(textArray[textIndex].charAt(charIndex));
        charIndex++;
        setTimeout(type, 100);
    } else {
        setTimeout(erase, 2000);
    }
}

function erase() {
    if (charIndex > 0) {
        let currentText = textArray[textIndex].substring(0,
charIndex - 1);
        $('.typing-text').text(currentText);
        charIndex--;
        setTimeout(erase, 50);
    } else {
        textIndex = (textIndex + 1) % textArray.length;
        setTimeout(type, 100);
    }
}

// Initialize typing
type();

// --- SMOOTH SCROLL ---
$('nav a').on('click', function(e) {
    if (this.hash !== "") {
        e.preventDefault();
        let hash = this.hash;
        $('html, body').animate({

```

```
        scrollTop: $(hash).offset().top - 70
    }, 800);
}
});

// --- INTERSECTION OBSERVER (Fade in on scroll)
---

const observerOptions = { threshold: 0.15 };
const observer = new IntersectionObserver((entries) =>
{
    entries.forEach(entry => {
        if (entry.isIntersecting) {
            $(entry.target).addClass('is-visible');
        } else {
            $(entry.target).removeClass('is-visible');
        }
    });
}, observerOptions);

$('section').each(function() {
    observer.observe(this);
});
});

</script>
</body>
</html>
```

# **SYSTEM TESTING AND RESULT:**

## **System Testing**

- **Unit Testing**
  - Tested typing animation functionality
  - Verified smooth scrolling behavior
  - Checked hover effects on buttons and cards
  - Ensured resume link opens correctly
- **Integration Testing**
  - Verified navigation links scroll to correct sections
  - Checked interaction between animations and scrolling
  - Ensured project links redirect to GitHub properly
- **Browser Testing**
  - Tested on Google Chrome
  - Tested on Microsoft Edge
  - Tested on Mozilla Firefox
  - Confirmed proper rendering and performance
- **Responsive Testing**
  - Checked mobile view (below 768px)
  - Checked tablet view
  - Checked desktop view
  - Verified layout adjusts properly on all screen sizes
- **Performance Testing**
  - Verified smooth loading of animations
  - Ensured no major lag or delay
  - Checked image loading and responsiveness

## **Result:**

<https://my-pranav-kshirsagar-portfolio.netlify.app/>

## **FUTURE SCOPE AND CONCLUSION:**

### **Future Scope**

- Integration of a backend system (such as Node.js or PHP) to make the website dynamic.
- Implementation of a contact form connected to a database for storing user messages.
- Addition of an admin panel to easily update projects, resume, and personal details.
- Inclusion of a blog section to share technical knowledge and experiences.
- Adding a Dark/Light mode toggle feature for better user experience.
- Displaying skills with progress bars or charts.
- Adding a certifications and achievements section.
- Hosting the website on a custom domain for a more professional appearance.
- Implementing SEO optimization to improve search engine visibility.
- Enhancing performance through image optimization and code minification.

## **Conclusion**

The Personal Portfolio Website developed using HTML, CSS, JavaScript, and jQuery successfully demonstrates modern front-end web development techniques. The website is fully responsive, visually appealing, and interactive, featuring smooth scrolling, typing animation, and fade-in effects using the Intersection Observer API. It effectively showcases personal information, academic projects, and contact details in a structured manner. The project fulfills its objective of creating a professional online presence and serves as a strong foundation for future enhancements and career growth in web development.

## **REFERENCE:**

### **Acode Editor (android):**

Used for writing, editing, and managing the website source code.

### **Gemini AI:**

Used for idea generation, concept understanding, and guidance during development.

### **Google Chrome:**

Used for running, testing, and debugging the portfolio website.

## **GLOSSARY:**

**HTML (HyperText Markup Language)** – The standard markup language used to create the structure of web pages.

**CSS (Cascading Style Sheets)** – A stylesheet language used to design and control the layout, colors, fonts, and responsiveness of the website.

**JavaScript** – A scripting language used to add interactivity and dynamic behavior to the website.

**jQuery** – A JavaScript library that simplifies DOM manipulation, animations, and event handling.

**DOM (Document Object Model)** – A programming interface that represents the structure of an HTML document as objects.

**Responsive Design** – A design approach that ensures the website adapts properly to different screen sizes (mobile, tablet, desktop).

**Media Query** – A CSS technique used to apply different styles based on screen size or device characteristics.

**Intersection Observer API** – A web API used to detect when an element becomes visible on the screen, used here for fade-in animations.

**Animation** – Visual effects that create movement or transitions (e.g., floating image, rotating border, background animation).

**Keyframes** – CSS rule used to define stages of an animation.

**Smooth Scrolling** – A scrolling effect that moves gradually between sections instead of jumping instantly.

**Grid Layout** – A CSS layout system used to create responsive

card-based project and contact sections.

**Glassmorphism** – A UI design style using transparency and blur effects for a modern appearance.

**Viewport** – The visible area of a web page on a device screen.

**Anchor Link** – A clickable link that navigates to a specific section of the same page.

**Hover Effect** – A visual effect triggered when the user places the mouse pointer over an element.

**Function** – A block of reusable JavaScript code designed to perform a specific task.

**Event Listener** – A method that waits for user interaction such as clicks or scrolling.

**User Interface (UI)** – The visual layout and interactive elements of the website.

**User Experience (UX)** – The overall experience and ease of use for visitors interacting with the website

