

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. PAVAN SALUNKE of F.Y.
Information Technology (FYIT) Roll No. 2541036
has satisfactorily completed the Web
Designing Mini Project entitled PORTFOLIO JSON BASED
EXPERIRNCE TRACKER 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

LAXMI JESWANI

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1. INTRODUCTION

The **JSON-Based Experience Tracker Portfolio** is a modern web-based application developed to showcase and manage professional experiences in a structured and interactive format. The system presents user experiences in a visually appealing timeline layout, dynamically generated using JavaScript and JSON data structures.

The main objective of this project is to demonstrate practical implementation of:

- Frontend web development (HTML, CSS, JavaScript)
- JSON data structuring
- Dynamic content rendering
- Interactive UI design

This system helps users maintain a digital portfolio that displays their career milestones, skills, and technical growth in a professional manner.

The project reflects modern web design principles including responsiveness, animations, and user interaction.

2.REQUIREMENT SPECIFICATION

2.1 Functional Requirements

The system should:

- Display professional experiences in timeline format.
 - Store experience data in JSON structure.
 - Dynamically render experience cards using JavaScript.
 - Show skills related to each experience.
 - Animate milestones on scroll.
 - Provide navigation between sections (Home, Experience, Contact).
 - Provide contact links (GitHub, LinkedIn, Email).
-

2.2 Non-Functional Requirements

- The system should be responsive on mobile and desktop.
 - The user interface should be visually attractive.
 - The website should load quickly.
 - The system should work in modern browsers (Chrome, Edge, Firefox).
 - The design should follow modern UI/UX standards.
-

2.3 Hardware Requirements

- Computer or Laptop
 - Minimum 4GB RAM
 - Internet connection (for external CDN resources)
-

2.4 Software Requirements

- HTML5
- CSS3
- JavaScript (ES6)
- VS Code or any code editor
- Web Browser
- Font Awesome (CDN)
- Unsplash (Background image resource)

3. SYSTEM DESIGN

3.1 System Architecture

The project follows a **client-side architecture**.

User → Browser → HTML Structure → CSS Styling → JavaScript Logic → JSON Data → Dynamic Rendering

There is no backend server. All data is handled on the client side.

3.2 Data Design (JSON Structure)

The experience data is stored in JSON format inside JavaScript:

```
const experienceData = [
  {
    year: "2025",      role: "Web
Developer",        company: "Tech Start",
    desc: "JavaScript, HTML, CSS",
    skills: ["HTML", "CSS", "JavaScript"]
  }];

```

Each experience object contains:

- Year
 - Role
 - Company
 - Description
 - Skills
-

3.3 UI Design Components

- Navigation Bar
- Hero Section (Introduction)
- Experience Timeline (Tracer System)
- Animated Progress Line
- Footer Section with Social Links

The timeline design visually represents professional growth using:

- Vertical tracer line
- Animated milestone dots
- Scroll-triggered animations

4. SYSTEM IMPLEMENTATION

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.5.1/css/all.min.css">
  <title>Pavan Salunke | Portfolio</title>
  <style>
    /* --- CSS VARIABLES --- */
    :root {
      --bg-color: #030712;
      --card-bg: rgba(17, 24, 39, 0.8);
      --primary-glow: #06b6d4;
      --secondary-glow: #8b5cf6;
      --text-primary: #f3f4f6;
      --text-secondary: #9ca3af;
      --nav-height: 70px;
    }
    /* --- Contact Box & Form --- */
    .contact-box { text-align:center; background: linear-gradient(145deg,#0f172a,#020617); padding:50px; border-radius:30px; border:1px solid rgba(56,189,248,0.2); width:100%; max-width:600px; margin:auto; }
    .contact-box form { display:flex; flex-direction:column; gap:15px; margin-top:20px; }
    .contact-box input, .contact-box textarea { padding:10px; border-radius:5px; border:1px solid #555; background:#111; color:white; width:100%; }
    .contact-box textarea { height:120px; resize:none; }
    .contact-box button { padding:12px; border:none; border-radius:5px; background:#38bdf8; color:#020617; font-weight:700; cursor:pointer; transition:0.3s; }
    .contact-box button:hover { background:#0ea5e9; }

    html {
      scroll-behavior: smooth;
    }

    body {
      background-color: var(--bg-color);
      color: var(--text-primary);
      font-family: 'Inter', system-ui, sans-serif;
      margin: 0;
      padding: 0;
      line-height: 1.6;
      overflow-x: hidden;
    }

    /* Prevent fixed nav from covering content when jumping to IDs */
    section, .container, footer {
      scroll-margin-top: var(--nav-height);
    }

    /* --- NAVBAR --- */
    nav {
      position: fixed;
      top: 0;
      width: 100%;
```

```
height: var(--nav-height);
background: rgba(3, 7, 18, 0.7);
backdrop-filter: blur(15px);
border-bottom: 1px solid rgba(255, 255, 255, 0.1);
z-index: 1000;
display: flex;
justify-content: center;
align-items: center;
}

.nav-content {
  width: 100%;
  max-width: 900px;
  display: flex;
  justify-content: space-between;
  align-items: center;
  padding: 0 20px;
}

.logo {
  font-size: 1.2rem;
  font-weight: 800;
  text-decoration: none;
  background: linear-gradient(to right, var(--primary-glow), var(--secondary-glow));
  -webkit-background-clip: text;
  -webkit-text-fill-color: transparent;
}

.nav-links { display: flex; gap: 25px; }
.nav-links a {
  text-decoration: none;
  color: var(--text-secondary);
  font-size: 0.9rem;
  transition: 0.3s;
}
.nav-links a:hover { color: var(--primary-glow); }

/* --- HERO SECTION --- */
.hero {
  display: flex;
  align-items: center;
  justify-content: space-between;
  min-height: 80vh;
  max-width: 900px;
  margin: 0 auto;
  padding: calc(var(--nav-height) + 40px) 20px 40px 20px;
  gap: 40px;
  animation: fadeInUp 1s ease-out;
}

@keyframes fadeInUp {
  from { opacity: 0; transform: translateY(30px); }
  to { opacity: 1; transform: translateY(0); }
}

.hero-text { flex: 1; }
.hero-text h2 {
  font-size: 1.2rem;
  color: var(--primary-glow);
  margin: 0;
}
```

```
text-transform: uppercase;
letter-spacing: 2px;
}

.hero-text h1 {
  font-size: 3.5rem;
  margin: 10px 0;
  line-height: 1.1;
}

.hero-text p {
  font-size: 1.1rem;
  color: var(--text-secondary);
  max-width: 500px;
}

/* --- PROFILE PICTURE --- */
.profile-container {
  position: relative;
  flex-shrink: 0;
}

.profile-pic {
  width: 280px;
  height: 280px;
  border-radius: 30% 70% 70% 30% / 30% 30% 70% 70%;
  overflow: hidden; /* Ensures image stays inside the shape */
  border: 4px solid var(--primary-glow);
  box-shadow: 0 0 30px rgba(6, 182, 212, 0.3);
  animation: morph 8s ease-in-out infinite;
}

.profile-pic img {
  width: 100%;
  height: 100%;
  object-fit: cover;
}

@keyframes morph {
  0% { border-radius: 30% 70% 70% 30% / 30% 30% 70% 70%; }
  50% { border-radius: 50% 50% 20% 80% / 25% 80% 20% 75%; }
  100% { border-radius: 30% 70% 70% 30% / 30% 30% 70% 70%; }
}

/* --- BUTTON STYLES --- */
.connect-btn {
  display: inline-block;
  padding: 12px 28px;
  background: var(--primary-glow);
  color: var(--bg-color) !important;
  text-decoration: none;
  font-weight: 700;
  border-radius: 50px;
  letter-spacing: 1px;
  text-transform: uppercase;
  font-size: 0.9rem;
  transition: all 0.3s ease;
  box-shadow: 0 0 15px rgba(6, 182, 212, 0.4);
  animation: pulseGlow 2s infinite;
}
```

```
.connect-btn:hover {
  transform: scale(1.05);
  box-shadow: 0 0 25px var(--primary-glow);
  background: #fff;
}

@keyframes pulseGlow {
  0% { box-shadow: 0 0 0 rgba(6, 182, 212, 0.7); }
  70% { box-shadow: 0 0 15px rgba(6, 182, 212, 0); }
  100% { box-shadow: 0 0 0 rgba(6, 182, 212, 0); }
}

/* --- BACKGROUND --- */
.bg-image {
  position: fixed;
  top: 0; left: 0; width: 100%; height: 100%;
  background-image: url('https://images.unsplash.com/photo-1451187580459-43490279cofa?q=80&w=2072&auto=format&fit=crop');
  background-size: cover; z-index: -2; opacity: 0.2;
}

.bg-overlay {
  position: fixed; top: 0; left: 0; width: 100%; height: 100%;
  background: radial-gradient(circle at center, transparent, var(--bg-color));
  z-index: -1;
}

/* --- EXPERIENCE SECTION --- */
.container {
  max-width: 800px;
  margin: 0 auto;
  padding: 80px 20px;
}

.tracer-area { position: relative; padding-left: 50px; }

.vertical-line-bg {
  position: absolute; left: 20px; top: 0; bottom: 0;
  width: 2px; background: rgba(255, 255, 255, 0.1);
}

#tracer-progress-line {
  position: absolute; left: 20px; top: 0; width: 2px;
  background: linear-gradient(to bottom, var(--primary-glow), var(--secondary-glow));
  box-shadow: 0 0 15px var(--primary-glow);
  z-index: 2; height: 0; transition: height 0.4s ease-out;
}

.milestone {
  position: relative; margin-bottom: 80px; opacity: 0;
  transform: translateY(30px); transition: all 0.8s ease-out;
}

.milestone.active { opacity: 1; transform: translateY(0); }

.dot {
  position: absolute; left: -41px; top: 12px;
  width: 14px; height: 14px; background: #1f2937;
  border: 2px solid rgba(255, 255, 255, 0.2);
  border-radius: 50%; z-index: 3;
}
```

```

        }

.milestone.active .dot {
  background: var(--primary-glow);
  box-shadow: 0 0 12px var(--primary-glow);
  transform: scale(1.3);
}

.card {
  background: var(--card-bg);
  backdrop-filter: blur(12px);
  padding: 25px; border-radius: 16px;
  border: 1px solid rgba(255, 255, 255, 0.1);
}

/* --- FOOTER & SOCIALS --- */
footer {
  margin-top: 100px; padding: 60px 20px; text-align: center;
  background: rgba(17, 24, 39, 0.9); border-top: 1px solid rgba(255, 255, 255, 0.1);
}

.social-link {
  text-decoration: none;
  color: var(--text-secondary);
  display: flex;
  align-items: center;
  gap: 8px;
  transition: 0.3s ease;
}

.social-link:hover {
  color: var(--primary-glow);
  transform: translateY(-3px);
}

.fa-instagram:hover {
  background: radial-gradient(circle at 30% 107%, #fdf497 0%, #fdf497 5%, #fd5949
45%, #d6249f 60%, #285AEB 90%);
  -webkit-background-clip: text;
  -webkit-text-fill-color: transparent;
}

@media (max-width: 768px) {
  .hero { flex-direction: column-reverse; text-align: center; padding-top: 120px; }
  .hero-text h1 { font-size: 2.5rem; }
  .profile-pic { width: 220px; height: 220px; }
  .nav-links { gap: 15px; }
}

</style>
</head>
<body>

<nav>
  <div class="nav-content">
    <a href="#home" class="logo">PAVAN.DEV</a>
    <div class="nav-links">
      <a href="#">Home</a>
      <a href="#">Experience</a>
      <a href="#">Contact</a>
    </div>
  </div>
</nav>

```

```

        </div>
    </nav>

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

<section class="hero" id="home">
    <div class="hero-text">
        <h2>Web Developer</h2>
        <h1>Hi, I'm <span style="color: var(--primary-glow);">Pavan
    Salunke</span></h1>
        <p> I am studying in FYIT . Information Technology (IT) is the use of computers, software, and networks to store, process, and share information. It plays an important role in modern life and is used in many fields such as education, business, healthcare, and banking.</p>
        <div style="margin-top: 30px;">
            <a href="#experience" class="connect-btn">Explore My Journey</a>
        </div>
    </div>
    <div class="profile-container">
        <!--  UPDATED IMAGE HERE -->
        <div class="profile-pic">
            
        </div>
    </div>
</div>
</div>
</section>

<div class="container" id="experience">
    <header style="text-align: left; margin-bottom: 60px;">
        <h1 style="font-size: 2.5rem;">Professional Path</h1>
        <p>A timeline of my growth and technical milestones.</p>
    </header>

    <div class="tracer-area" id="main-tracer">
        <div class="vertical-line-bg"></div>
        <div id="tracer-progress-line"></div>
        <div id="experience-list"></div>
    </div>
</div>

<div class="footer-content">
    </div>
</footer><br><br>
<!-- Contact Section -->
<section id="contact">
    <div class="contact-box reveal">
        <h1>Let's <span class="highlight">Work Together</span></h1>
        <p class="subtitle">I'm looking for junior developer opportunities and open-source contributions.</p>
        <form action="https://formspree.io/f/YOUR_FORM_ID" method="POST">
            <input type="text" name="name" placeholder="Your Name" required>
            <input type="email" name="_replyto" placeholder="Your Email" required>
            <textarea name="message" placeholder="Your Message" required></textarea>
            <button type="submit">Send Message</button>
        </form>
    </div>
</section>

```

```

<div style="margin-top:20px; display:flex; gap:15px; justify-content:center; flex-wrap:wrap;">
    <a href="OmSantoshCV.pdf" download class="btn-github"><i class="fas fa-download"></i> Download CV</a>
    <a href="mailto:om@example.com" class="btn-github" style="background:transparent; border:1px solid #38bdf8; color:#38bdf8;"><i class="fas fa-envelope"></i> Email Me</a>
</div>
</div>
<footer><h2 style="font-size: 2rem;"><center>Let's Connect</center></h2>
    <div style="display: flex; justify-content: center; gap: 25px; flex-wrap: wrap; margin: 30px 0;">
        <a href="https://github.com/yourusername" class="social-link" target="_blank">
            <i class="fab fa-github" style="font-size: 1.5rem;"></i> GitHub
        </a>

        <a href="https://linkedin.com/in/yourusername" class="social-link" target="_blank">
            <i class="fab fa-linkedin" style="font-size: 1.5rem;"></i> LinkedIn
        </a>
        <a href="https://www.instagram.com/96_pavan_17?igsh=MTltN2pxYXlnOGpxaw==" class="social-link" target="_blank">
            <i class="fab fa-instagram" style="font-size: 1.5rem;"></i> Instagram
        </a>
        <a href="pavansalunke96@gmail.com" class="social-link">
            <i class="fas fa-envelope" style="font-size: 1.5rem;"></i> Email
        </a>
    </div>

```

<p class="copyright">© 2026 Pavan Salunke. Built with Tracker Logic.</p>

```

</div>
</footer>
</section>

```

```

<script>
    const experienceData = [
        { year: "2025", role: "Web Designing", desc: "Developing modern web interfaces using HTML, CSS, and JavaScript.", skills: ["HTML", "CSS", "JAVASCRIPT"] },
        { year: "2025", role: "Programming", desc: "Deep diving into C and C++ for logic building and algorithmic efficiency.", skills: ["C", "C++"] },
        { year: "2026", role: "Database", desc: "Managing complex data structures with SQL, MySQL, and PL/SQL.", skills: ["SQL", "MySQL"] }
    ];

```

```

const listContainer = document.getElementById('experience-list');
const progressLine = document.getElementById('tracer-progress-line');

function init() {
    listContainer.innerHTML = experienceData.map((exp, index) => `

        <div class="milestone" id="step-${index}">
            <div class="dot"></div>
            <div class="card">
                <div style="color: var(--primary-glow); font-weight: bold;">${exp.year}</div>
                <h3 style="margin: 5px 0;">${exp.role}</h3>
                <p style="color: var(--text-secondary);"> ${exp.desc}</p>
            </div>
        </div>
    `);
}

```

```
</div>
`).join(""));
}

function handleScroll() {
  const milestones = document.querySelectorAll('.milestone');
  const triggerZone = window.innerHeight * 0.7;
  let lastActiveIndex = -1;

  milestones.forEach((el, index) => {
    const rect = el.getBoundingClientRect();
    if (rect.top < triggerZone) {
      el.classList.add('active');
      lastActiveIndex = index;
    } else {
      el.classList.remove('active');
    }
  });

  if (lastActiveIndex !== -1) {
    const activeMilestone = document.getElementById(`step-${lastActiveIndex}`);
    const dot = activeMilestone.querySelector('.dot');
    progressLine.style.height = `${dot.offsetTop + 7}px`;
  } else {
    progressLine.style.height = `0px`;
  }
}

init();
window.addEventListener('scroll', handleScroll);
// Initial call to set state
handleScroll();
</script>
</body>
</html>
```

5.SYSTEM TESTING AND RESULTS

5.1 Testing Methods Used

- Functional Testing
 - UI Testing
 - Scroll Animation Testing
 - Cross-Browser Testing
 - Responsive Testing
-

5.2 Test Cases

| Test Case | Input | Expected Result | Status |
|-----------------|-------------------|----------------------------|--------------------------------------|
| Load Page | Open website | Page loads with animations | Passed |
| Timeline | Scroll down | Milestones activate | Passed |
| Click links | Scroll to section | Passed Contact Links | Click email Opens mail client Passed |
| Responsive View | Mobile view | Layout adjusts properly | Passed |

5.3 Results

The system successfully:

- Displays experience data dynamically.
- Animates tracer line based on scroll.
- Maintains responsive layout.
- Provides smooth user interaction.

All functional requirements were successfully implemented and tested.

6.FUTURE SCOPE AND CONCLUSION

6.1 Future Scope

The project can be enhanced by:

- Adding a backend database (MongoDB).
 - Implementing user login authentication.
 - Adding a form to dynamically add experiences.
 - Exporting experiences as PDF resume.
 - Adding skill analytics with charts.
 - Deploying online using GitHub Pages or Netlify.
 - Creating mobile app version.
-

6.2 Conclusion

The JSON-Based Experience Tracker Portfolio successfully demonstrates the implementation of structured data handling and dynamic content rendering using modern web technologies.

The project enhances understanding of:

- JSON data structures
- DOM manipulation
- UI/UX design
- Responsive web development

This system provides a professional digital portfolio platform and serves as a strong foundation for future full-stack development projects.

7. REFERENCES

- MDN Web Docs – HTML, CSS, JavaScript
- W3Schools – Web Development Tutorials
- JSON.org – JSON Data Format
- Font Awesome Documentation
- Unsplash – Background Images
- ECMAScript 6 Documentation

8. GLOSSARY

JSON (JavaScript Object Notation):

A lightweight data-interchange format.

DOM (Document Object Model):

Programming interface for HTML and XML documents.

Responsive Design:

Design approach that ensures website works on different screen sizes.

CDN (Content Delivery Network):

Network used to deliver external libraries like Font Awesome.

Frontend Development:

The visual and interactive part of a website.