SEVA SADAN'S

R. K. TALREJA COLLEGE

OF

ARTS, SCIENCE & COMMERCE

ULHASNAGAR – 421 003

CERTIFICATE

This is to certify that Mr./Ms. <u>Chaudhary Mohd Faizan Javed</u> of F.Y. Information Technology (FYIT) Roll No. <u>2541005</u> has satisfactorily completed the Web Designing Mini Project entitled : <u>PORTFOLIO WITH LIVE FORM VALIDATION & ERROR MESSAGE</u>. 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   **HEAD OF DEPT**

<u>**SAHIL SHUKLA**</u>   <u>**LAKSHMI JAISWANI**</u>

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1.INTRODUCTION

This project is a professional Personal Portfolio Website designed to act as a centralized hub for my technical projects. Built with a focus on clean aesthetics and high performance, the site utilizes a minimalist green-themed design to present my identity as an IT Student & Aspiring Developer.

The website is a lightweight, responsive solution that highlights three core applications: SecureVault, SmartCheck, and TaskFlow. By using modern CSS techniques like CSS Variables and Flexbox/Grid, I have created a platform that is both visually professional and technically sound.

2.REQUIREMENT SPECIFICATION

To ensure the project remains lightweight and accessible, the following requirements were met:

Technologies Used:

HTML5: Used for semantic structuring and accessibility. CSS3: Implemented for the design system, custom typography scaling, and glassmorphism-lite effects.

Hosting/Version Control: Designed for deployment on GitHub Pages.

System Requirements:

Browsers: Compatible with all modern browsers (Chrome, Edge, Safari, Firefox).

Responsiveness: Mobile-first approach using grid-templatecolumns: repeat(auto-fit...) to ensure the layout works on mobile, tablets, and desktops

3.SYSTEM DESIGN

The design follows a "Clean & Modern" philosophy using a specific color palette defined in the CSS :root: Color Palette: Primary Green (#15803d) for accents and White/Light Green for background surfaces.

Layout Architecture:

Navigation: A fixed, blurred-background header for constant access to site sections.

Typography: Dynamic font scaling using the clamp() function, ensuring headers look proportional on all screens. Project Grid: A CSS Grid-based system that automatically adjusts the number of columns based on screen width.

4.SYSTEM IMPLEMENTATION

The implementation was divided into key technical phases:

Phase 1: UI Variable Logic: I established a design system using CSS variables (--bg-color, --accent, etc.), allowing for easy global updates to the theme.

Phase 2: Project Card Components: Each project (SecureVault, SmartCheck, TaskFlow) is contained within a "Project Card" class. I implemented a translateY hover effect to provide tactile feedback to the user.

Phase 3: Smooth Navigation: I utilized the scroll-behavior: smooth property in the HTML global selector to ensure a premium feel when jumping between sections

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

```html
<link
href="https://fonts.googleapis.com/css2?family=Plus+Jakarta+Sans:wght@300
;400;600;800&display=swap" rel="stylesheet">

<style>
  :root {
    --bg-deep: #050b14;
    --glass-bg: rgba(15, 23, 42, 0.7);
    --accent-primary: #00d2ff;
    --accent-secondary: #3a7bd5;
    --text-white: #ffffff;
    --text-gray: #94a3b8;
    --error: #ff4d4d;
    --success: #00ff88;
  }

  * {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Plus Jakarta Sans', sans-serif;
  }

  body {
    background-color: var(--bg-deep);
    background-image:
      radial-gradient(circle at 10% 20%, rgba(0, 210, 255, 0.05) 0%,
transparent 20%),
      radial-gradient(circle at 90% 80%, rgba(58, 123, 213, 0.05) 0%,
transparent 20%);
    color: var(--text-white);
    line-height: 1.6;
    overflow-x: hidden;
  }

  /* ================= NAVIGATION ================= */
  nav {
    position: fixed;
    top: 20px;
```

```css
      width: 90%;
      left: 50%;
      transform: translateX(-50%);
      background: var(--glass-bg);
      backdrop-filter: blur(12px);
      border: 1px solid rgba(255, 255, 255, 0.1);
      border-radius: 50px;
      padding: 12px 30px;
      z-index: 1000;
      display: flex;
      justify-content: space-between;
      align-items: center;
   }

   .logo {
      font-weight: 800;
      font-size: 1.4rem;
      background: linear-gradient(to right, var(--accent-primary), var(--accent-secondary));
      -webkit-background-clip: text;
      -webkit-text-fill-color: transparent;
      text-decoration: none;
   }

   .nav-links a {
      color: var(--text-gray);
      text-decoration: none;
      margin-left: 20px;
      font-size: 0.9rem;
      font-weight: 600;
      transition: 0.3s;
   }

   .nav-links a:hover { color: var(--accent-primary); }

   /* ================== LAYOUT ================== */
   .container {
      max-width: 1100px;
      margin: 0 auto;
```

```css
  padding: 150px 20px 50px;
}

.hero {
  text-align: center;
  margin-bottom: 100px;
}

.hero h1 {
  font-size: clamp(2.5rem, 8vw, 4.5rem);
  font-weight: 800;
  margin-bottom: 10px;
}

.hero p {
  color: var(--accent-primary);
  font-size: 1.2rem;
  letter-spacing: 2px;
  text-transform: uppercase;
}

.about-grid {
  display: grid;
  grid-template-columns: 1fr 1fr;
  gap: 50px;
  align-items: center;
  margin-bottom: 100px;
}

.glass-card {
  background: var(--glass-bg);
  border: 1px solid rgba(255, 255, 255, 0.1);
  padding: 40px;
  border-radius: 24px;
  box-shadow: 0 20px 40px rgba(0,0,0,0.3);
}

.skill-tag {
  display: inline-block;
```

```css
    background: rgba(0, 210, 255, 0.1);
    color: var(--accent-primary);
    padding: 6px 15px;
    border-radius: 8px;
    margin: 5px;
    font-size: 0.85rem;
    border: 1px solid rgba(0, 210, 255, 0.2);
}

.section-title {
    font-size: 2rem;
    margin-bottom: 40px;
    border-bottom: 2px solid var(--accent-primary);
    display: inline-block;
}

.project-grid {
    display: grid;
    grid-template-columns: repeat(auto-fit, minmax(300px, 1fr));
    gap: 25px;
    margin-bottom: 100px;
}

.p-card {
    background: rgba(255,255,255,0.03);
    border-radius: 20px;
    padding: 30px;
    border: 1px solid rgba(255,255,255,0.05);
    transition: all 0.4s ease;
    display: flex;
    flex-direction: column;
    justify-content: space-between;
}

.p-card:hover {
    background: rgba(255,255,255,0.07);
    transform: translateY(-10px);
    border-color: var(--accent-primary);
}
```

```css
.tag-container {
   margin-top: 15px;
   display: flex;
   gap: 8px;
   flex-wrap: wrap;
}

.mini-tag {
   font-size: 0.7rem;
   background: rgba(255,255,255,0.1);
   padding: 2px 8px;
   border-radius: 4px;
}

.explore-link {
   margin-top: 20px;
   text-decoration: none;
   color: var(--accent-primary);
   font-weight: bold;
   font-size: 0.8rem;
}

/* ================= CONTACT ================= */
.contact-wrapper {
   max-width: 600px;
   margin: 0 auto;
}

.form-group { margin-bottom: 25px; }

label {
   display: block;
   margin-bottom: 8px;
   font-weight: 600;
   color: var(--text-gray);
}

input, textarea {
```

```css
            width: 100%;
            padding: 15px;
            background: rgba(0, 0, 0, 0.2);
            border: 1px solid rgba(255, 255, 255, 0.1);
            border-radius: 12px;
            color: white;
            outline: none;
        }

        .error-hint { color: var(--error); font-size: 0.8rem; margin-top: 5px;
display: block; height: 18px; }

        .submit-btn {
            width: 100%;
            padding: 15px;
            background: linear-gradient(45deg, var(--accent-primary), var(--accent-
secondary));
            border: none;
            border-radius: 12px;
            color: white;
            font-weight: 800;
            cursor: pointer;
        }

        .valid { border-color: var(--success) !important; }
        .invalid { border-color: var(--error) !important; }

        footer {
            text-align: center;
            padding: 50px 0;
            color: var(--text-gray);
            border-top: 1px solid rgba(255,255,255,0.05);
        }

        @media (max-width: 768px) {
            .about-grid { grid-template-columns: 1fr; }
        }
    </style>
</head>
```

```html
<body>

  <nav>
    <a href="#" class="logo">FAIZAN</a>
    <div class="nav-links">
      <a href="#about">About</a>
      <a href="#projects">Work</a>
      <a href="#contact">Contact</a>
    </div>
  </nav>

  <div class="container">
    <header class="hero">
      <h1>Faizan</h1>
      <p>B.Sc. IT Student • Developer</p>
    </header>

    <section id="about" class="about-grid">
      <div class="about-text">
        <h2 class="section-title">About Me</h2>
        <p style="color: var(--text-gray); font-size: 1.1rem;">
          Hello! I'm Faizan, an 18-year-old developer currently pursuing my
B.Sc. in IT at RKT College. I am passionate about turning lines of code into
functional, beautiful digital experiences.

My journey in tech started with a curiosity for how the web works, which led
me to dive deep into JavaScript and modern web frameworks. I believe in
continuous learning and am currently focused on mastering full-stack
development. When I'm not coding, you'll find me exploring new tech trends
or working on logic-based side projects.
        </p>
      </div>
      <div class="glass-card">
        <h3 style="margin-bottom: 15px;">Technical Stack</h3>
        <div id="skills-container"></div>
      </div>
    </section>

    <h2 class="section-title" id="projects">Selected Projects</h2>
```

```html
    <div class="project-grid" id="project-container"></div>

    <section id="contact" class="contact-wrapper">
      <div class="glass-card">
        <h2 style="text-align: center; margin-bottom: 30px;">Let's
Talk</h2>
        <form id="contactForm">
          <div class="form-group">
            <label>Full Name</label>
            <input type="text" id="name" placeholder="John Doe"
onkeyup="vName()">
            <span id="name-err" class="error-hint"></span>
          </div>
          <div class="form-group">
            <label>Email ID</label>
            <input type="email" id="email"
placeholder="john@example.com" onkeyup="vEmail()">
            <span id="email-err" class="error-hint"></span>
          </div>
          <div class="form-group">
            <label>Message</label>
            <textarea id="msg" rows="4" placeholder="Your message..."
onkeyup="vMsg()"></textarea>
            <span id="msg-err" class="error-hint"></span>
          </div>
          <button type="submit" class="submit-btn">SEND
MESSAGE</button>
          <p id="final-status" style="text-align: center; margin-top: 15px;
font-weight: bold;"></p>
        </form>
      </div>
    </section>
  </div>

  <footer>
    <p>&copy; 2026 Faizan | College Portfolio Project</p>
  </footer>

  <script>
```

```javascript
// --- DATA CONFIGURATION ---
const data = {
    skills: ["JavaScript", "HTML5" ],
    projects: [
        {
            title: "Secure vault",
            description: "",
            tech: ["HTML"],
            link:
"https://github.com/mrfaizan75/portfolio/blob/55f4012e9f1d3739a73b4d5c2fa
af651767b9b59/portfolio/securevault.html"
        },
        {
            title: "Smart Check",
            description: "",
            tech: ["JavaScript",],
            link:
"https://github.com/mrfaizan75/portfolio/blob/55f4012e9f1d3739a73b4d5c2fa
af651767b9b59/portfolio/smartcheck.html"
        },
        {
            title: "Task Flow",
            description: "",
            tech: ["HTML",],
            link:
"https://github.com/mrfaizan75/portfolio/blob/55f4012e9f1d3739a73b4d5c2fa
af651767b9b59/portfolio/taskflow.html"
        }
    ]
};

// --- INJECT SKILLS ---
document.getElementById('skills-container').innerHTML =
data.skills.map(s =>
    `<span class="skill-tag">${s}</span>`).join('');

// --- INJECT PROJECTS ---
document.getElementById('project-container').innerHTML =
data.projects.map(p => `
```

```
      <div class="p-card">
        <div>
          <h3 style="margin-bottom: 10px; color: var(--accent-
primary);">${p.title}</h3>
            <p style="color: var(--text-gray); font-size:
0.9rem;">${p.description}</p>
          <div class="tag-container">
            ${p.tech.map(t => `<span class="mini-
tag">${t}</span>`).join('')}
          </div>
        </div>
        <a href="${p.link}" target="_blank" class="explore-
link">EXPLORE PROJECT →</a>
      </div>
    `).join('');

    // --- VALIDATION LOGIC ---
    const nErr = document.getElementById('name-err');
    const eErr = document.getElementById('email-err');
    const mErr = document.getElementById('msg-err');

    function vName() {
       let val = document.getElementById('name').value;
       let el = document.getElementById('name');
       if(!val.match(/^[A-Za-z]*\s{1}[A-Za-z]*$/)) {
          nErr.innerText = "Full name required (e.g. Faizan Khan)";
          el.classList.add('invalid'); return false;
       }
       nErr.innerText = ""; el.className = 'valid'; return true;
    }

    function vEmail() {
       let val = document.getElementById('email').value;
       let el = document.getElementById('email');
       if(!val.match(/^[^\s@]+@[^\s@]+\.[^\s@]+$/)) {
          eErr.innerText = "Enter a valid email address";
          el.classList.add('invalid'); return false;
       }
       eErr.innerText = ""; el.className = 'valid'; return true;
```

```
      }

      function vMsg() {
         let val = document.getElementById('msg').value;
         let el = document.getElementById('msg');
         if(val.length < 15) {
            mErr.innerText = (15 - val.length) + " more characters needed";
            el.classList.add('invalid'); return false;
         }
         mErr.innerText = ""; el.className = 'valid'; return true;
      }

      document.getElementById('contactForm').onsubmit = (e) => {
         e.preventDefault();
         if(vName() && vEmail() && vMsg()) {
            document.getElementById('final-status').style.color = "var(--
success)";
            document.getElementById('final-status').innerText = "✓ Message
Sent Successfully!";
            e.target.reset();
            // Clear validation classes
            document.querySelectorAll('input, textarea').forEach(i =>
i.className = '');
            setTimeout(() => { document.getElementById('final-
status').innerText = ""; }, 3000);
         } else {
            document.getElementById('final-status').style.color = "var(--error)";
            document.getElementById('final-status').innerText = "Please
complete the form correctly.";
         }
      }
   </script>
</body>
</html>
```

5.SYSTEM TESTING AND RESULTS

Testing was conducted to ensure that the portfolio is functional, responsive, and provides a seamless user experience. Below are the testing procedures and their respective outcomes.

5.1 Navigation and Link Testing

Logo Link: Clicking the "FAIZAN." logo successfully returns the user to the top of the page.

Navigation Menu: Clicking "About" and "Projects" triggers a smooth scroll animation to the respective sections without any layout shifts.

External Links: All "View Source Code" buttons successfully open the correct GitHub repository in a new browser tab.

Internal Links: The "Launch App" buttons correctly redirect to the hosted sub-pages (SecureVault, SmartCheck, and TaskFlow).

5.2 UI and Interactivity Testing

Hover Effects: When a user hovers over a project card, the translateY CSS transition triggers correctly, lifting the card by 5px to provide visual feedback.

Dynamic Scaling: Headers and body text were tested across different resolutions; the clamp() function ensures text remains legible and proportional from 320px to 1920px widths.

Glassmorphism/Blur: The navigation bar's backdrop-filter was verified to ensure the background content blurs appropriately during scrolling for better readability.

5.3 Responsive Design Testing

Mobile View (375px - 425px): The project grid successfully collapses into a single-column layout. The navigation bar remains fixed at the top without obstructing content. Tablet View (768px): The grid automatically adjusts to a twocolumn layout, maintaining equal spacing and alignment. Desktop View (1024px+): The layout expands to its maximum width of 1000px, centering the content with appropriate side margins.

5.4 Performance and Compatibility

Browser Compatibility: The site was tested on Google Chrome, Mozilla Firefox, and Safari. All CSS variables and grid properties rendered consistently across all engines.

Load Speed: Due to the minimalist approach and lack of heavy external libraries, the site achieves near-instant load times on both 4G and broadband connections.

Console Verification: Browser developer tools were used to confirm that no JavaScript errors or 404 resource errors occur during the site's lifecycle.

6.FUTURE SCOPE AND CONCLUSION

Future Scope

JavaScript Automation: Adding a dynamic project loader to fetch project data from a JSON file.

Dark Mode: Implementing a secondary color palette to allow users to toggle dark mode.

Contact Section: Adding a dedicated contact form with backend validation.

Conclusion

This portfolio successfully showcases my ability to write clean, semantic code and create a professional UI. By focusing on simplicity and utility, the site provides an effective overview of my development skills and my current project portfolio.

7.REFERENCES

MDN Web Docs: For CSS Grid and Flexbox layout documentation.
Google Fonts: Specifically the 'Inter' sans-serif typeface used throughout.
GitHub Documentation: For repository linking and file pathing best practices.

8.GLOSSARY

CSS Grid: A two-dimensional layout system for the web.
Flexbox: A one-dimensional layout model for distributing space between items.
Semantic HTML: Using tags like <header>, <nav>, and <section> to describe the content's meaning, not just its look.
Viewport: The user's visible area of a web page.