Established – 1961 Subject: WEB

SEVA SADAN'S

R. K. TALREJA COLLEGE

OF

ARTS, SCIENCE & COMMERCE

ULHASNAGAR – 421 003

CERTIFICATE

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

SAHIL SHUKLA **LAKSHMI JAISWANI**

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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-template-columns: 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

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 two-column 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.