Lens & Light 2025

A Static Photography Contest Platform for SRMU

Project Documentation & Technical Overview

Executive Summary

"Lens & Light 2025" is a dedicated web platform designed to manage the registration and information dissemination for Shri Ramswaroop Memorial University's annual photography contest.

Problem & Solution
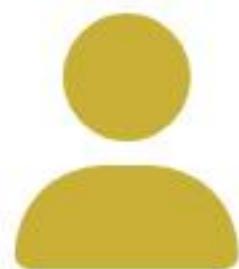
The Challenge

Organizing a campus-wide contest requires a centralized hub. Students need a reliable place to find rules, dates, and submit entries without the confusion of scattered flyers or emails.

The Solution

We built a static, responsive website. It serves as a comprehensive digital brochure with a registration interface, designed with a "Nature Through the Lens" aesthetic to match the contest theme.

The Development Team

Avanish Kumar Singh

Project Lead & Frontend Developer

Drashti Singh

UI/UX Designer & Content Strategist
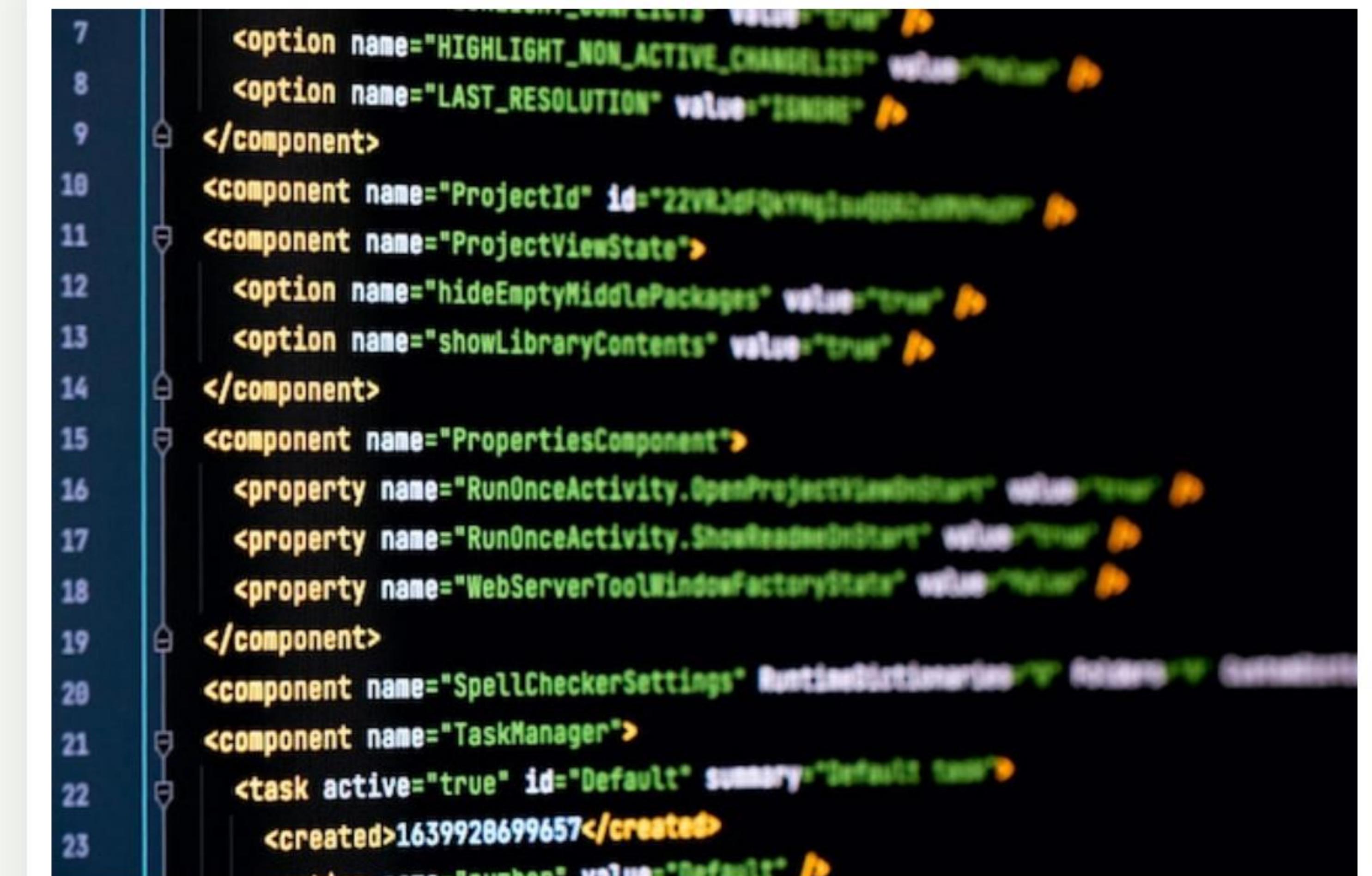
Shivansh Tiwari

JavaScript Logic & Quality Assurance

Technical Stack

- **HTML5:** Provides the semantic backbone and structure of the application (Header, Main, Section, Footer).

- **CSS3:** Handles all visual styling, responsive grid layouts, and the "Nature" color theme via CSS Variables.

- **JavaScript:** Powers the client-side logic, including form validation and interactive accordion menus.

- **FontAwesome:** Used for scalable UI icons (Cameras, Trophies, Navigation).

Design System

Visual Identity

We implemented a coherent design system using CSS Variables (`:root`) to ensure consistency and easy maintenance.
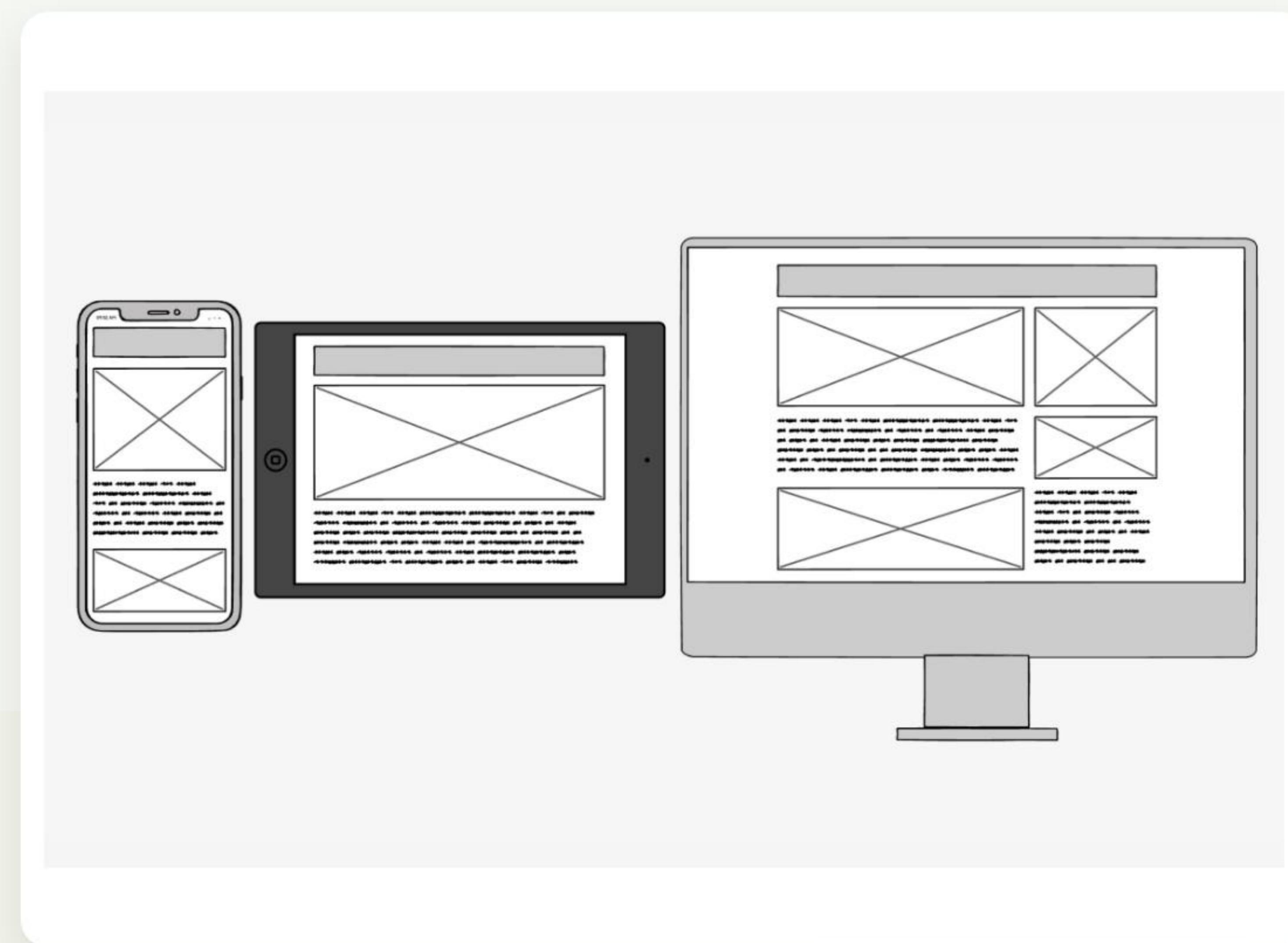
Primary Color: #5a7247 (Earthy Green)
Backgrounds: #f0f4e8 (Light Mist)
**Typography:** 'Playfair Display' for elegance, paired with 'Open Sans' for readability.

John Lautner
Elrod House—
1960

Pill Gothic

SAL

Pill Gothic

SAL

Pill Gothic

SAL
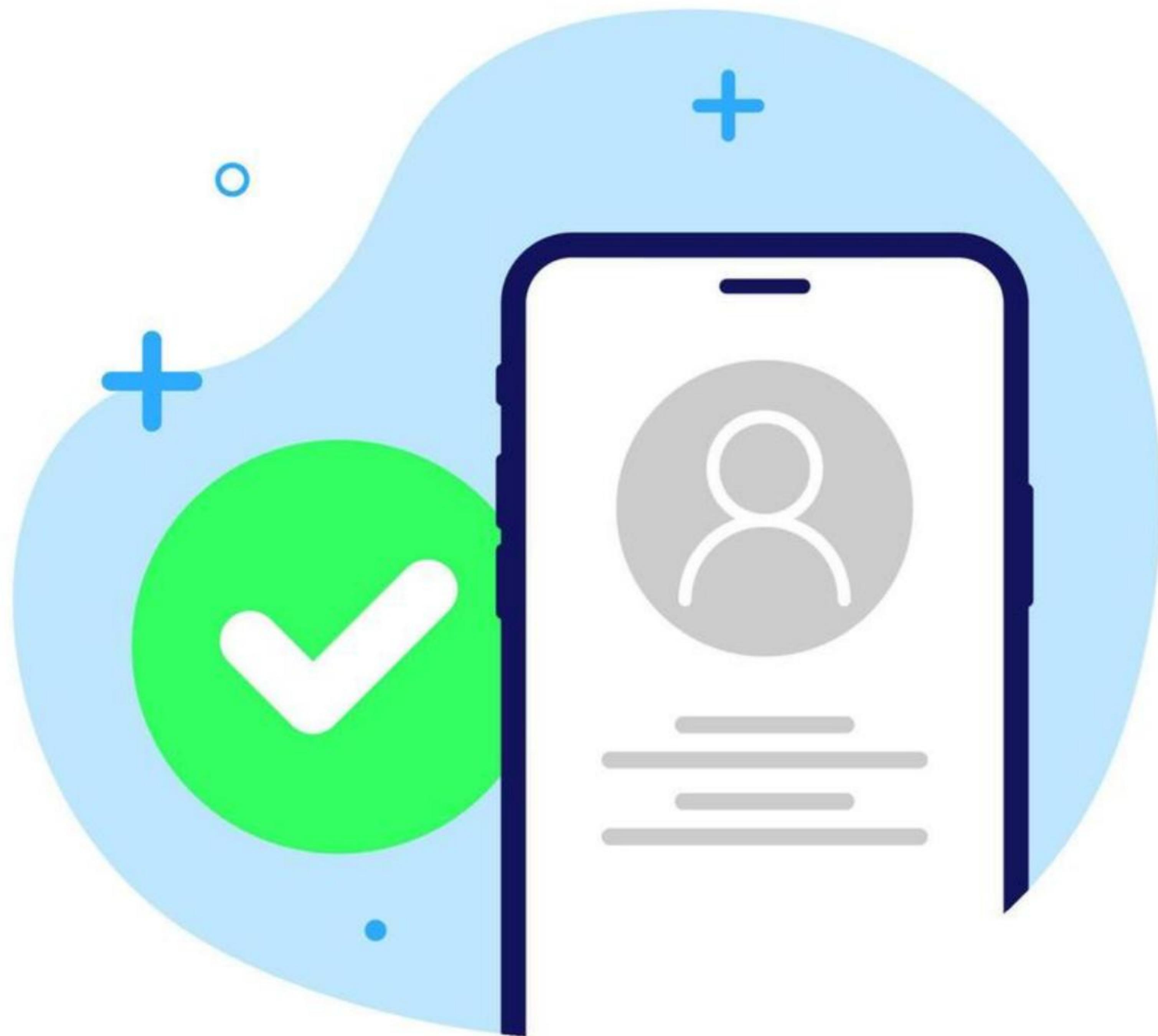
Layout Strategy

Responsive Grid & Flexbox

To ensure the site looks perfect on all devices, we utilized modern CSS layout techniques:

- **CSS Grid:** Used for the Prizes and Important Dates sections to create uniform, responsive cards (`grid-template-columns: repeat(3, 1fr)`).

- **Flexbox:** Powers the Navigation bar and Footer for efficient horizontal alignment and spacing.

Form Logic

Client-Side Validation

The registration page is the core functional element. We used JavaScript to ensure data integrity before "submission".

Using `event.preventDefault()`, we intercept the submit action to check if all required fields are filled and if the "Terms & Conditions" box is checked. This provides immediate feedback to the user via alerts.

Interactive Elements

The Accordion FAQ

To improve user experience on the Contact page, we built a dynamic FAQ section. We avoided external plugins by writing custom vanilla JavaScript.

The script uses `document.querySelectorAll` to attach event listeners to every question. When clicked, it toggles the visibility of the answer, creating a smooth expansion effect.

Frequently Asked Questions

Why is the moon sometimes out during the day?	⊕
Why is the sky blue?	⊕
Will we ever discover aliens?	⊕
How much does the Earth weigh?	⊕
How do airplanes stay up?	⊕

Code Quality & Best Practices

Semantic HTML: We utilized proper tags like header, `main`, and `section` to improve accessibility and SEO structure.

External Libraries: Integrated FontAwesome via CDN to provide lightweight, scalable vector icons without adding image bloat.

Clean Architecture: Maintained a strict separation of concerns with distinct HTML files, a central CSS stylesheet, and a modular JS file.

Maintainability: Use of CSS comments and variable naming conventions makes the codebase easy for any team member to update.
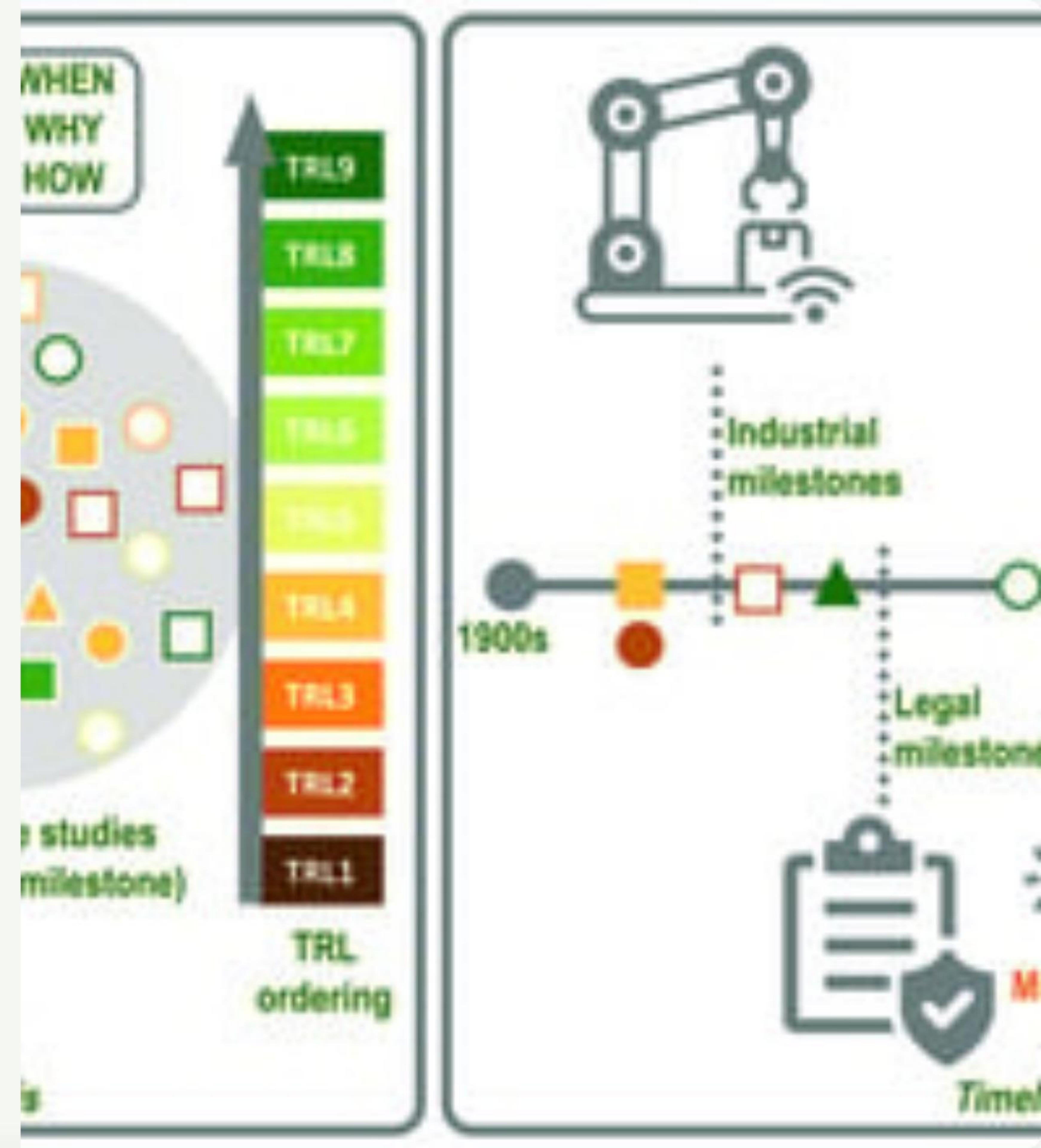
Future Roadmap

Scaling the Platform

While the current version is a robust static prototype, we have a clear path for future development:

Backend Integration: Connecting the form to a PHP or Node.js server to store registrations in a database.

Live Gallery: Creating a dynamic gallery to showcase submitted photos in real-time.

Questions?

Thank you for viewing the Lens & Light 2025 project overview.

Image Sources

https://img.freepik.com/premium-photo/software-developer-java-programming-html-web-code-abstract-computer-script-code-programming-code-screen-software-developer-software-programming-work-time_263512-1380.jpg

Source: www.freepik.com

https://assets.justinmind.com/wp-content/uploads/2020/04/mood-board-examples-salt-damage.png

Source: www.justinmind.com

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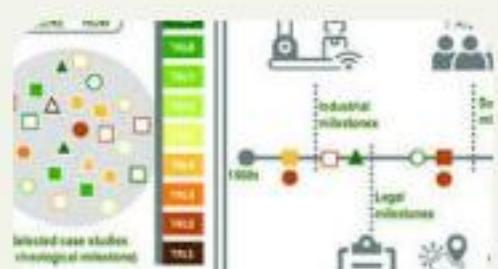
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Source: www.vecteezy.com

https://codemyui.com/wp-content/uploads/2019/01/FAQ-Content-Style-Accordion.gif

Source: codemyui.com

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Source: www.mdpi.com