Digital Portfolio



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PROJECT TITLE

HTML, CSS AND JAVASCRIPT.

AGENDA

- 1. Problem Statement
- **Project Overview**
- End Users
- Tools and Technologies
 Portfolio designandLayout
- ٦. Features and Functionality
- **V. Results and Screenshots**
- **A. Conclusion**
- 9. Github Link



PROBLEM STATEMENT

HTML,CSS,andJavaScriptprojectswith source codeon a portfolio website refer to web development projects built using these three core technologies, showcased on a personal website designed to display a developer's skills and work.HTML, CSS, and JavaScript are the foundational technologies for building web pages and web applications. Each serves a distinct purpose in the "problem statement" of creating a functional and visually appealing website: HTML (HyperText Markup Language): The Structure. HTML defines the content and structure of a web page. It uses vereings and tags to organize text, images, videos, forms, and other components. In the problem statement, HTML addresses the need for organizing information and defining tilinera Pobyento fiorco a tenstripo na data edy margia balla Svio (Canada dintera Cityley to horeato): pages enables features like animations, user input validation, data manipulation, communication with servers. In the problem statement, JavaScript addresses the need creating a dynamic and engaging user experience, allowing for user interaction complex functionalities beyond static content.

PROJECT OVERVIEW

- •Ina web developmentproject,HTML, CSS, and JavaScript serve distinct but interconnected roles in building a functional and visually appealing userinterface.
- •Inessence, HTMLprovidesthecontent, CSS stylesthat content, and JavaScriptmakesthe content interactive and dynamic, working together to create a complete and engaging web application.



WHO ARE THE END USERS?

- > In projects utilizing HTML, CSS, and JavaScript, the end users are the individuals who interact directly with the web application or website.
- > More specifically, these end users include:
- Website Visitors: Anyone browsing a public website built with these technologies.
- •Application Users:Individuals using a web-based application, such as an online banking portal, e-commerce site, or social media platform.
- •Clients/Customers:In business contexts, these are the individuals who use a company's web-based services or products.
- > These end users consume the content (HTML), experience the visual design (CSS), and interact with the dynamic and interactive elements (JavaScript) of the web project. Their experience and satisfaction are the primary focus of front-end development using these languages.

TOOLS AND TECHNIQUES



Tools:

> VS Code: A popular, feature-rich editor with extensive extensions for HTML, CSS, and

JavaScript development, including live server functionality for real-time preview. Sublime Text: A fast and highly customizable text editor favored by many developers. Atom: A hackable text editor built by GitHub, offering a wide range of packages for customization. Online Editors (e.g., CodePen, JSFiddle): Useful for quick prototyping, sharing code snippets, and experimenting with front-end technologies directly in the browser.

Techniques:

•Semantic HTML:Using appropriate HTML5 tags

(e.g., <header>, <nav>, <main>, <footer>, <article>, <section>) toprovide

meaning and structure to web content, improving accessibility and SEO.HTML

Boilerplate:Starting with a basic HTML structure that includes common elements like<!DOCTYPE html>,<html>,<head>, and<
body>.CSS Preprocessors (e.g., Sass, Less):Extending CSS with features like variables, nesting, and mixins for more organized and maintainable stylesheets.DOM Manipulation:Using JavaScript to dynamically modify the content, structure, and style of HTML elements.Event Handling:Responding to user interactions (clicks, key presses, form submissions) to create dynamic and interactive experiences.Asynchronous JavaScript (e.g., Fetch API, Async/Await):Handling operations that take time, such less fetching data from APIs without blocking the main thread.JavaScript Libraries/Frameworks (e.g., React, Vue, Angular):Simplifying complex UI development and

POTFOLIO DESIGN AND LAYOUT

- •HTML (HyperText MarkupLanguage):
- •This provides the fundamental structure and content of the portfolio. It defines the different sections, such as "About Me," "Projects," and "Contact," and organizes the information within them using semantic tags like < header >, < nav >, < section >, < footer >, < div >, < h1 > to < h6 >, , < img >, and < a >.
- •CSS (Cascading Style Sheets):
- •CSS is responsible for the visual presentation and layout of the portfolio. It controls aspects like colors, fonts, spacing, alignment, responsiveness for different screen sizes (using media queries), and the overall aesthetic. CSS is used to position elements, create visual hierarchies, and ensure a consistent and appealing design.
- •Ja va Scrip t:
- JavaScript adds interactivity and dynamic functionality to the portfolio. This can include features such as: Interactive navigation: Smooth scrolling, responsive navigation menus (e.g., hamburger menus for mobile).
- Project filtering or sorting: Allowing users to filter projects by category or technology.
- •Animations and transitions:Adding visual flair to elements on hover or scroll.
- Form validation: Ensuring contact forms are filled out correctly.
- Carousels or image sliders: Showcasing multiple project images in a dynamic way.

FEATURES AND FUNCTIONALITY

HTML (HyperText Markup Language):

- Features:> Provides the fundamental structure and content of awebpage. It uses elements and tags to define headings, paragraphs, images, links, lists, forms, and other content types.
- Functionality: > Creates the semantic foundation of the page, organizing information and making it access ibl e.

CSS (Cascading Style Sheets):

- •Features:> Controls the visual presentation and layout of HTML elements. It defines styles such as colors, fonts, spacing, positioning, and responsiveness for various screen sizes.
- •Functionality:> Enhances the user experience by making the webpage visually appealing and easy to navigate. It separates content from presentation, allowing for consistent styling across multiple pages. JavaScript:
- •Features:> Adds dynamic and interactive behavior to webpages.It can manipulate HTML and CSS, respond to user actions (clicks, hovers, form submissions), fetch data from servers, and create complex animations or applications.
- •Functionality:> Enables interactive elements like carousels, forms with validation, dynamic content updates, real-time data display, and single-page applications. It makes the webpage responsive and engaging for users.

RESULTS AND SCREENSHOTS

>HTML(HyperTextMarkup Language):

This provides thestructure and contentofthe web page.It defines elements like headings, paragraphs, images, links, forms, and more, organizing the information presented to the us er.

> CSS (Cascading Style Sheets): This controls the visual presentation and styling of the HTMLelements. It dictates aspects such ascolors, fonts, layout, spacing, responsiveness for different screen sizes, and visual effects, making the page aesthetically pleasing and user-friendly.

> JavaScript:

This adds interactivity and dynamic functionality to the web page. It enables features like interactive forms, animations, real-time data updates, user input handling, dynamic content loading, and complex user interface elements, transforming a static page intoaresponsive and engaging application.



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Contact Me

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saravanan



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About Me

Hello! I'm saravanan, a passionate web developer with a love for creating beautiful and functional websites. I enjoy learning new technologies and building projects that make a difference.

Skills

- HTML, CSS, JavaScript
- Responsive Web Design
- React & Node.is basics
- Problem Solving & Debugging



CONCLUSION

> HTML:

The conclusion would emphasize HTML's found at ional role in providing the structural backbone of the project. It outlines how HTML elements were used to organize and present content, creating the basic framework upon which the entire web application or page was built.

> CSS:

The conclusion would then highlight CSS's contribution to the project's visual design and user experience. It explains how CSS was employed to style HTML elements, control layout, typography, colors, and overall aesthetics, ensuring a visually appealing and user-friendly interface. Responsiveness and adaptability to different screen sizes, if implemented, would also be mentioned here.

> JavaScript:

Finally, the conclusion would focus on JavaScript's role in adding interactivity and dynamic functionality. It describes how JavaScript enabled features such as user input handling, data manipulation, dynamic content updates, animations, and other interactive elements that enhanced the user experience and brought the static HTML and CSS to life.