**3-Minute Presentation: Portfolio Website Interface and Functionality**

**Introduction**

Hello everyone. Today, I’ll walk you through the interface and functionality of my portfolio website. This website is designed to be responsive, interactive, and user-friendly, showcasing my professional skills and projects effectively.

**Website Layout**

1. **Header and Navigation Bar**:
   * At the top, we have a **fixed header** containing the **navigation bar**. The navigation bar includes links to various sections like About, Resume, Projects, Services, and Contact.
   * The **navigation bar** features a **toggle button** for mobile responsiveness, allowing it to collapse and expand seamlessly.
   * The header implements a **sticky functionality**, ensuring it remains visible at the top of the page as the user scrolls, enhancing accessibility.
2. **About Section**:
   * Below the header is the **About section**, providing a brief introduction. This section employs **ScrollReveal.js** for smooth entrance animations, which appear from the left, creating a dynamic effect as the user scrolls.
3. **Resume Section**:
   * Next is the **Resume section**, featuring a **tabbed interface** for easy navigation between different resume categories like Education, Experience, and Skills.
   * The tabs are controlled by **JavaScript**, which dynamically updates the active tab and the corresponding content, ensuring a smooth user experience.
4. **Projects Section**:
   * The **Projects section** showcases my work with a grid layout. Each project card includes **hover effects** implemented via CSS, highlighting project details upon interaction.
   * These cards are also animated using **ScrollReveal.js** from the bottom, providing a visually appealing entrance as they come into view.
5. **Services Section**:
   * The **Services section** lists the services I offer, organized in a responsive grid format. **Hover effects** enhance interactivity, changing the appearance of each service box to indicate they are clickable.
6. **Contact Section**:
   * Finally, the **Contact section** includes a form for visitors to get in touch. The form integrates with **EmailJS** for handling form submissions and providing instant feedback.
   * Upon submission, a **loader animation** is displayed, and success or error messages are dynamically shown based on the response from EmailJS.

**Theme Toggle and Dark Mode**

* The website features a **theme toggle button** in the header, allowing users to switch between light and dark modes. This toggle is managed through **JavaScript**, which updates both the DOM and **localStorage** to remember the user’s preference across sessions.

**Scroll Tracking and Active Links**

* As users navigate the site, **JavaScript** scroll tracking highlights the active section in the navigation bar. This feature provides visual feedback by updating the link styles dynamically, ensuring users know their current section on the page.

*Now, I’m going to take you on a technical journey through the code behind my portfolio website. We’ll explore the HTML structure, CSS styling, and JavaScript functionality that bring this website to life.*

**7-Minute Presentation: The Code Behind My Portfolio Website**

**HTML: The Structure**

1. **HTML5 Semantics**:
   * The website is built using **HTML5 semantic elements** to improve readability and SEO. It includes external libraries like Lineicons for icons and ScrollReveal.js for animations.
   * Key sections like <header>, Contains the navigation bar, and site branding and the nav-bar theme-toggle
   * The navigation bar includes anchor (<a>) tags with href attributes pointing to section ids, enabling smooth scrolling.
   * <section>, Divides content into distinct sections tags, like About, Resume, Services, Projects, and Contact.
2. **Form Handling**: (385)
   * The contact form is created using the <form> element, with input fields like <input> (399) , <textarea>,(403) and <button>. (407)This form integrates with **EmailJS** for backend email handling.

And then we have the <footer> Wraps up the site with additional links, social icons and information that are used to define the layout.

**CSS: The Styling**

1. **I’ve used Global Styles and Reset**:
   * A CSS reset is applied to ensure consistency across different browsers. Global styles colors, (7)
   * layout properties,(27)
   * and set base fonts.(82)
2. **Flexbox and Grid Layouts**: Used for arranging elements in a flexible and responsive manner.
   * Example using Grid Layout

.service-row (481)

And an example of using Flexbox is the footer (782)

1. **Styling Sections and Elements**:
   * Each section has specific styles. For instance, the **Resume section** uses a tabbed interface with active state styling.(335-378)
2. **Hover Effects and Transitions**:
   * CSS hover effects enhance interactivity. Transitions smooth out state changes, improving user experience. (project-item:hover)(571)
3. **Responsive Design**:
   * The website uses **media queries** to adapt the layout for various screen sizes. For instance, the navigation bar transforms into a toggleable menu on smaller screens.
   * Example(614)

**JavaScript Technical Overview**

**1. Navbar Toggle Functionality - Toggle Visibility Of Navbar When Button Clicked**

JavaScript handles the toggle functionality of the mobile navigation menu, enhancing mobile usability. By selecting the navigation toggle button and listening for a click event, the navigation menu's visibility is controlled by toggling a CSS class.

**2. Tab Interface for Resume Section**

JavaScript controls the tab switching in the Resume section. It dynamically updates the active tab and its corresponding content by adding and removing CSS classes. When a tab heading is clicked, the event listener identifies the target tab and activates the corresponding content section.

**3. Sticky Navbar on Scroll - Navbar Header Sticky While Scroll**

A sticky header keeps the navigation bar visible as the user scrolls. JavaScript calculates the scroll position and toggles the sticky class based on the user's scroll distance from the top. This functionality enhances navigation and keeps important links accessible at all times.

**4. Active Link On Page Scroll**

JavaScript tracks the scroll position to highlight the active section link in the navigation bar. This provides real-time feedback on the user's location within the page by comparing the scroll position with the top and bottom offsets of each section. Active links are updated dynamically as the user scrolls through the content.

5. Dark and Light Theme Toggle

The theme toggle feature allows users to switch between light and dark modes. JavaScript manages the theme preference using localStorage to remember the user's choice across sessions. This is achieved by toggling a class on the <body> element and storing the preference in localStorage.

**5. EmailJS Integration**

EmailJS handles the contact form submissions. JavaScript manages the form submission process, displaying a loader during the process and providing feedback based on the result. When the form is submitted, JavaScript sends the form data to EmailJS, displays a success message on successful submission, and an error message if the submission fails.

**6. ScrollReveal Animations**

The website uses ScrollReveal.js to create smooth, engaging animations as elements come into view. JavaScript initializes ScrollReveal and sets different reveal animations for various sections and elements. This enhances the visual appeal and user experience of the website.

**Conclusion**

In conclusion, my portfolio website is a carefully crafted project that combines the power of **HTML** for structure, **CSS** for styling and responsiveness, and **JavaScript** for dynamic functionality.

Thank you for your attention.