**Task Checklist**

**1. UI/UX and Layout Design**

* Design complex multi-section web pages with a structured layout. +
* Implement **responsive grids (CSS Grid/Flexbox)** for adaptive designs.
* Ensure smooth navigation with a visually appealing user experience +.

**2. Advanced CSS Styling and Animation**

* Use **CSS transitions** for smooth hover effects on buttons, links, and images.
* Implement **CSS animations** (e.g., fade-in, slide-in, bouncing effects). +
* Apply **parallax scrolling** using CSS and JavaScript for a dynamic effect.
* Create animated background effects or text reveal effects using **@keyframes**. +

**3. JavaScript-Based Interactions**

* Implement **dynamic color changes** using JavaScript (e.g., theme switcher).
* Create interactive elements like accordions, modals, and dropdown menus.
* Add **smooth scrolling effects** with JavaScript for better navigation.
* Implement **tabbed content switching** with JavaScript event listeners.

**4. Form Validations with JavaScript**

* Validate form fields (name, email, phone number) with JavaScript.
* Display error messages for invalid inputs dynamically.
* Prevent form submission unless all required fields are correctly filled.
* Use **regex patterns** for email and password validation.

**5. JavaScript Event Handling & Dynamic Content**

* Implement **onClick, onHover, and onScroll** event listeners.
* Change page elements dynamically (e.g., image gallery with JavaScript).
* Build a **real-time character counter** for input fields.
* Develop a **dark mode toggle** with local storage to save user preferences. +

**6. Performance and Optimization**

* Optimize CSS and JavaScript files to reduce page load time.
* Use lazy loading techniques for images and videos.
* Minify CSS and JavaScript files to enhance performance.

**7. Cross-Browser and Mobile Compatibility**

* Test design and animations on different browsers (**Chrome, Edge, Firefox, Safari**).
* Ensure mobile-friendly responsiveness using media queries.
* Debug any layout inconsistencies and apply necessary fixes.

**8. SEO & Accessibility Compliance**

* Ensure proper **alt attributes, meta tags, and heading structures** for SEO.
* Use **ARIA roles** to enhance accessibility for screen readers.
* Implement proper contrast ratios for color-blind users.