

CSS Major Assignment

Topic: Video Streaming Platform for Students

Introduction

The purpose of this assignment is to create a responsive video streaming platform using only HTML and CSS (without JavaScript). This platform will allow students to browse videos, view thumbnails, and navigate through a structured layout with a sidebar and navbar. The assignment focuses on demonstrating the understanding of CSS concepts such as animations, responsiveness, box shadows, hover effects, and positioning.

Assignment Details

1. Basic Requirements

Your video streaming platform must include the following features in a single HTML file with internal CSS:

1. Navigation Bar (Sticky & Animated)

- Displays the site's name.
- Includes links for Home, Search Bar, and other essential options.
- Should remain fixed at the top while scrolling.
- Smoothly appears 0.5 seconds after the page loads.

2. Sidebar (Sticky & Animated on Desktop)

- Contains options such as:
 - Liked Videos
 - Downloads
 - Search
 - Courses
 - Subscriptions
- Should smoothly appear 0.5 seconds after the page loads.
- Should remain fixed while scrolling.
- **For mobile devices**, the sidebar should **disappear** entirely (without animation).

3. Video Display Section

- Videos should be displayed inside proper boxes.

- Each video should have a **thumbnail, title, and details** below it.
- Use anchor tags to link the videos or use locally stored videos.
- **Hover Effect:**
 - On hovering over a video block, the **border color should change to thin white**.
 - The **box shadow should also turn white**.

4. Responsiveness

- **On PC:** Videos should be displayed in a **horizontal** arrangement with **more horizontal gaps than vertical gaps**.
- **On Mobile:**
 - Videos should stack **vertically**.
 - The **sidebar should not appear at all**.
 - The **animation for sidebar should not trigger**.

5. Styling and Aesthetic Enhancements

- Apply appropriate **background colors, text colors**, and design.
- Use **custom fonts** by importing them instead of the default fonts.
- Add **shadows** for each video block to enhance UI appeal.

2. Technical Guidelines

- **Do not use JavaScript.** Submissions with JavaScript will not be considered.
- Use **only internal CSS** within the HTML file.
- Implement **CSS animations** for the navbar and sidebar to appear smoothly.
- Ensure the **navigation bar and sidebar remain fixed while scrolling**.
- Apply **hover effects** on video blocks using CSS properties like box-shadow and border-color.
- Follow **proper indentation** and include **comments** to describe different sections of your code.

3. Lighthouse Performance Score Requirement

Your site will be judged based on its **Lighthouse performance score**. Here's how to check your Lighthouse score:

1. **Open Google Chrome.**

2. **Press F12** to open Developer Tools.
 3. Navigate to the **Lighthouse** tab.
 4. Select the **Performance, Accessibility, Best Practices, and SEO** categories.
 5. Click **Generate Report**.
 6. Ensure that your site scores well on **both local and other devices**.
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4. Submission Details

- **Submission Format:** A single .html file with internal CSS.
 - **Deadline: 10th February, 11:59 PM.**
 - **Evaluation Criteria:**
 - Proper HTML and CSS implementation.
 - Adherence to responsiveness guidelines.
 - Correct animation effects.
 - Lighthouse performance score.
 - Code cleanliness and readability.
 - Aesthetic design and user experience.
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5. Evaluation Notes

- **Marks will be deducted if:**
 - JavaScript is used.
 - Sidebar appears on mobile devices.
 - Sidebar animation triggers on mobile devices.
 - The navigation bar or sidebar does not remain fixed while scrolling.
 - The hover effect is missing.
 - The video layout does not adjust properly for different screen sizes.

Ensure your submission meets all the requirements to achieve the best score!

Good luck!