**Flexbox Layout Plan for Exercise 1**

**Purpose of the Document**

This document outlines the necessary flex containers to implement the provided layout mockup using Flexbox. Each container is named and described according to its purpose in the layout, following the instructions given in the exercise.

**Layout Structure and Containers**

**1. Root Container**

- **Name:** root

- **Purpose:** This container wraps the entire page layout, taking up the full height of the viewport.

- **Properties:**

  o   display: flex;

  o   flex-direction: column;

  o   height: 100vh;

- **Description:** The root container serves as the main wrapper for all other containers. It uses Flexbox with a vertical layout, allowing for a responsive page structure.

**2. Navigation Container**

- **Name:** nav

- **Purpose:** This container holds the navigation elements, such as a logo or links, located at the top of the page.

- **Properties:**

  o   flex: 0;

  o   Positioned at the top to remain fixed in height.

- **Description:** The navigation container provides space for the primary navigation controls and is kept at a fixed height to remain consistent across the top of the page.
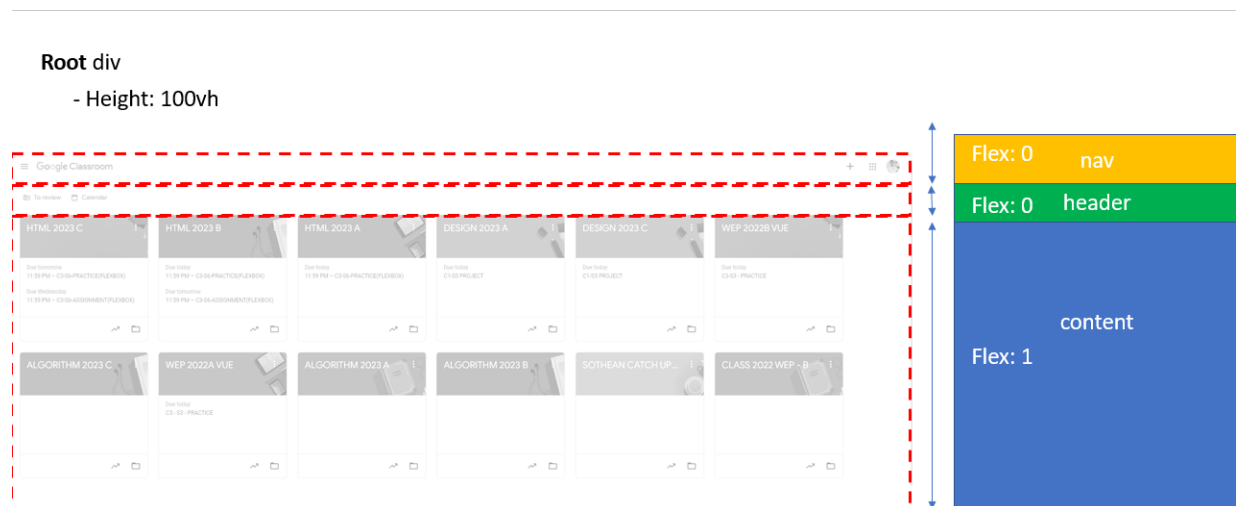
**3. Header Container**

- **Name:** header

- **Purpose:** This container is located below the navigation and might include the page title, a banner, or other main header elements.

- **Properties:**

- o   flex: 0;

- o   Positioned directly under the navigation bar.

- **Description:** The header container holds important introductory content, such as a title or banner image, and is also fixed in height.

## 4. Content Container

- **Name:** content

- **Purpose:** This is the main content area where primary information (e.g., course details, updates) is displayed.

- **Properties:**

  - o   flex: 1;

  - o   Fills up the remaining space on the page.

- **Description:** The content container takes up the rest of the available space, making it flexible and responsive. It allows for scrollable content as needed, ensuring that the main information is easily accessible.

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**Root** div
   - Height: 100vh



## Conclusion

The above structure outlines the essential Flexbox containers and their layout for implementing the mockup. This layout plan ensures a responsive design by using Flexbox properties effectively, maintaining a clear structure, and organizing the content visually for ease of use.