**1. HTML Structure**

The layout consists of a header, sidebar, main content area with cards, and a related links section.

**2. CSS Styling**

Add CSS to style the header, sidebar, main content area, cards, and related links.

**3. Explanation of the Code**

* **HTML Structure**: The code defines a layout with a header, a sidebar menu on the left, a main content section in the center, and a related links section on the right.
* **CSS Styling**:
  + Uses Flexbox to create a responsive layout for the container.
  + Sets background colors, padding, and border-radius for visual appeal.
  + The header has a fixed height, and the content areas have some basic styling like background color and padding.
  + Cards in the main content area include an image, title, and description with some spacing.
  + The sidebar and related links sections use lists for navigation items.

**4. Improving the Flexbox Layout**

Make the layout more flexible and responsive by refining the Flexbox properties. This ensures the main content takes up more space, while the sidebar and related links sections remain fixed in size.

**5. Making the Layout Responsive**

For smaller screens, the layout should adapt by stacking the sections vertically. Use media queries to modify the Flexbox properties when the screen width is below a certain threshold, such as 768px.

**6. Adding Hover Effects and Interactivity**

Enhance the user experience by adding hover effects to the cards and links.

**7. Adding JavaScript for Interactivity (Optional)**

If you want to make the sidebar collapsible or add other interactive features, you can use JavaScript.

Output:

A screenshot of a computer

Description automatically generated