

## **Approach:**

To create the picture gallery application, I combined HTML, CSS, and JavaScript to design a user-friendly interface. I aimed to provide users with the ability to search for images based on category names and view them in a grid layout. Here's how I approached it:

**User Interface:** I designed the user interface with a header containing a title and a search bar. Users can enter a category name in the search bar and click the search button to initiate the image search.

**Image Retrieval:** I integrated the Unsplash API to fetch images based on the user's category input. I utilised JavaScript's `fetch()` function to send requests to the API, and then parsed the data in JSON format to retrieve relevant images.

**Dynamic Updates:** To ensure dynamic updates of the UI, I used JavaScript to create HTML elements for each retrieved image. I then appended these elements to the gallery container. Along with displaying images, I incorporated author information and links to the original images on Unsplash.com.

**Styling:** For a visually appealing appearance, I employed CSS to enhance the design. I utilised the `grid-template-columns` property to implement the grid layout, ensuring that the gallery displays three images per row.

I ensured the application's responsiveness by implementing media queries, enabling seamless viewing across both mobile devices and laptops/computers. Although the current version provides a solid foundation, numerous additional CSS properties could be leveraged to enhance its aesthetic appeal. As a result, the existing Gallery represents a basic rendition, leaving ample room for further refinements and creative possibilities.

In the realm of business and professional work, it's imperative to prioritise an appropriate color scheme. Several factors, such as consistent hover color effects, font styling, font color, and various UI/UX elements, hold considerable significance. Hence, importance was given to these factors.

## **Challenges:**

**API Integration:** Integrating the Unsplash API demanded a thorough understanding of the API documentation. Obtaining an API key and properly formatting the API request URL were crucial steps. Ensuring correct header usage and managing response data were additional considerations.

**CSS Grid Layout:** Achieving the desired layout of three images per row with CSS's `grid-template-columns` property required careful consideration. I needed to ensure responsiveness while maintaining consistent image sizing.

**Visual Styling:** Striking a balance between a visually appealing design and responsiveness across different devices was a challenge. I focused on styling the input bar, button, and image containers to ensure a consistent and aesthetically pleasing appearance.

In conclusion, I felt very confident with the project, and I sincerely appreciate the opportunity you provided me to showcase my skills. I am eager to collaborate with you again in the future. Thank you.