

Task Title: Create a Dynamic Image Carousel

Description:

Your task is to develop a dynamic image carousel that allows users to scroll through a set of images with navigation controls. The carousel should be visually appealing, interactive, and functional across all devices.

Requirements:

1. Core Features:

- Display at least 5 images in the carousel.
- Provide navigation arrows on the left and right for moving between images.
- Include dots (or indicators) at the bottom to represent the current image, which users can click to navigate to a specific image.

2. Functionality:

- Auto-slide: The carousel should automatically move to the next image every 5 seconds.
- Pause on hover: When the user hovers over the carousel, the auto-slide should pause.
- Looping: The carousel should loop back to the first image after reaching the last image.

3. Design Guidelines:

- Images should be of equal size and responsive to different screen sizes.
- Add a smooth transition effect when switching images.
- Provide hover effects on the navigation arrows and dots.

4. Tools and Technologies:

- Use HTML, CSS, and JavaScript (no frameworks like React or libraries like jQuery).
- Images can be sourced from placeholder services like Unsplash or local files.

5. Bonus Points:

- Add swipe functionality for mobile devices.
- Allow the user to adjust the auto-slide interval via a control panel (e.g., input field or dropdown).
- Add a caption below each image that changes dynamically as the images slide.

Expected Deliverables:

- A folder containing the HTML, CSS, and JavaScript files.
- A README file with instructions to run the carousel and an explanation of your approach.

Deadline:

The task must be completed and submitted by **23rd November 2024**.

