Dynamic Image Carousel

A fully responsive image carousel to showcase travel destinations, designed using **HTML**, **CSS**, and **JavaScript**. It includes features like auto-slide, pause-on-hover, swipe functionality for mobile devices, and dynamic interval control.

Setup Instructions

Prerequisites:

1. A code editor like **VS Code**.
2. A browser to view the carousel (e.g., Chrome, Firefox).

Steps to Run Locally:

1. **Download or Clone the Repository**:
   - Download the .zip file and extract it to your desired location.
2. **Navigate to the Project Folder**:
   - Open the folder containing the project files in your code editor.
3. **Open the Project**:
   - Open index.html in a browser by:
     - Right-clicking on the file in VS Code and selecting Open with Live Server (if installed).
     - Or, simply double-clicking on index.html.

Explanation of the Approach:

HTML:

- **Structure**:
  - The index.html file defines the core layout using Bootstrap for responsiveness.
  - The carousel-inner container holds the individual carousel-item elements for each slide.
  - Navigation arrows (.carousel-control-prev and .carousel-control-next) and indicators provide seamless navigation.

CSS:

- **Styling**:
  - The styles.css file includes global styles for the page layout and typography using the **Poppins** font.
  - Carousel-specific styles:
    - Smooth transitions and responsive images with object-fit: cover.
    - Hover effects and custom styling for captions, indicators, and navigation buttons.
  - A light background and subtle shadows enhance the visual appeal.

JavaScript:

- **Functionality**:
  - The script.js file contains logic for:
    1. **Auto-slide**: Automatically switches to the next slide every 5 seconds.
    2. **Pause-on-hover**: Temporarily pauses auto-slide when the user hovers over the carousel.
    3. **Swipe Support**: Enables swipe gestures for better navigation on touch devices.
    4. **Dynamic Interval**: Allows users to change the auto-slide interval through an input field.
    5. **Manual Navigation**: Updates slides and indicators on arrow and indicator clicks.
  - Event listeners handle various interactions (e.g., hover, click, input).