Web Development Assignment: Carousel Design

Objective:

Design and implement a responsive, rotating carousel component that displays a series of cards. Each card will include an image and descriptive text consisting of a *title* and *content*. The carousel should be dynamic, allowing the display of n cards, while only x cards (x < n) are visible on the screen at a time. You are provided with a *HTML*, *CSS*, *JS*, and *MD* file. Use those files to implement the carousel. The ideal design should follow something like below.



Requirements:

1. Card Design:

- Each card should contain:
 - An image (centered, responsive, or fit appropriately within the card).
 - A title (displayed prominently).
 - A content section (smaller text, placed under the title).

2. Carousel Behavior:

- o At any given time, only x cards should be visible on the screen.
- Clicking the right arrow should:

- Shift the visible cards to the left.
- Bring the card just outside the right boundary into the visible window.

Clicking the left arrow should:

- Shift the visible cards to the right.
- Bring the card just outside the left boundary into the visible window.

Rotating Carousel:

- If there are no cards to the right, clicking the **right arrow** should bring the first card in the list to the visible area.
- Similarly, if there are no cards to the left, clicking the left arrow should bring the last card in the list to the visible area.

3. Responsiveness/Animation:

- The carousel should adapt to various screen sizes (e.g., desktop, mobile).
- o Ensure a smooth sliding animation when navigating between cards.

4. Dynamic Input:

 Allow the number of cards (n) and the number of visible cards (x) to be easily configurable.

5. **Usability:**

- Include arrow buttons for navigation.
- Optionally, implement a pagination indicator (e.g., dots below the carousel)
 to show the current position within the carousel.
- Optionally, allow keyboard navigation.

6. Technology Stack:

- Use HTML, CSS, and JavaScript for the implementation.
- Do not use any framework, or library, or AI tool (e.g., ChatGPT, Gemini).

7. Bonus Features (Optional):

 Add autorotation, where the carousel automatically slides to the next set of cards after a set interval. o Provide support for swiping gestures on touch devices.

Deliverables:

- 1. Source code files (HTML, CSS, JavaScript). Opening the index.html file should render the carousel on the browser screen.
- 2. A working demo video.
- 3. Documentation explaining the code structure, how to configure n and x, and any additional features implemented. This can be a ReadMe.md file in the same directory.

Share a drive (e.g., google drive, onedrive, dropbox) link or github link of the completed code, video demo, and the documentations.

Deadline:

December 31, 2024

Reply to this email with the link to your updated codes.