Responsive Product Card Component

Use Case Abstract: Building a Responsive Product Card Component

Objective:

Design and implement a responsive product card component that showcases a product's image, title, description, and a call-to-action button. Your goal is to create a visually appealing and functional card that adapts to different screen sizes and demonstrates your front-end development skills.

Requirements:

1. **Layout and Design:**

   o Create a product card that includes an image, title, description, and a call-to-action button.

   o Ensure the card is responsive and maintains a consistent design across different screen sizes (mobile, tablet, desktop).

2. **Functionality:**

   o **Image:** Use a placeholder image with a fixed aspect ratio.

   o **Title:** Display a product title with scalable font size.

   o **Description:** Show a brief description that truncates if it exceeds a certain number of lines.

   o **Call-to-Action Button:** Implement a button that changes color on hover and is clickable.

3. **Advanced (Optional):**

   o **Accessibility:** Ensure the card is accessible, including proper ARIA attributes and keyboard navigation.

   o **Performance:** Optimize the card for quick loading and smooth performance.

Deliverables:

- A fully functional and responsive product card component.

- Well-structured HTML and CSS code.

- JavaScript code for any interactive features.

- Documentation or comments explaining your code and design choices.