UI/UX Engineer Challenge: Star Wars Explorer

Objective

Design and build a small, interactive website using React that demonstrates your UI/UX skills and understanding of the Container and Component pattern. The theme of the website will be to create an engaging user interface that allows users to explore the Star Wars Universe using data from the SWAPI API.

Challenge Requirements

1. Theme: Use the SWAPI API to create a site that allows users to:
   a. Browse a list of Star Wars characters and view details about them.
   b. Optionally, explore other entities such as starships, planets, or films.
   c. Implement search or filter functionality to enhance user experience.
2. Technical Specifications:
   a. Use React to build the website.
   b. Implement the Container and Components pattern:
      i. Container should handle data fetching and state management *(don't worry too much about this part, since we are only rating the presentational part)*.
      ii. Components should handle the display and rendering of the data. *(this is the presentational part)*
   c. Use CSS or a design framework (e.g., Tailwind CSS, styled components) to style the application and create a visually appealing user experience.
   d. The design should be responsive and work well on desktop and mobile devices.
3. Key Features:
   a. Characters:
      i. Display a list of Star Wars characters with basic information such as name and birth year.
      ii. Implement pagination or lazy loading if the list is long.
   b. Character Detail:
      i. Show detailed information about a selected character, including properties like height, mass, gender, and any associated films they appear in.

   c. Search/Filter Functionality: Users can search or filter the list by name or other criteria.
4. Evaluation Criteria:
   a. Code Quality: Clean, well-documented, and modular code using React best practices.
   b. UI/UX Design: Intuitive and visually appealing design that enhances user interaction.
   c. Use of Container and Component Pattern: Proper implementation separating logic and UI.
   d. Responsiveness: The website should be fully responsive on various screen sizes.
5. Bonus Points:
   a. Implement additional features such as:
   b. Viewing related starships or planets for a character.
   c. Adding animations or transitions for a polished experience.
   d. Including unit tests for key components.

Submission Requirements:

- Create a public GitHub repository with the project code.
- Include a README file with a brief overview of the project and instructions for running it locally.
- Any additional notes.

Timeline:

You have 5 days to complete and submit the challenge.

Tools & Resources:

- React
- SWAPI
- Your preferred CSS framework or styling library.

Good luck, and may the Force be with you!