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Task Title: Implementation of Netflix Clone using HTML, CSS, and JavaScript

Task Description:

The task involves creating a Netflix Clone web application using front-end technologies - HTML for structure, CSS for styling, and JavaScript for interactivity. The objective is to replicate the Netflix user interface and showcase basic functionality.

Steps Taken:

1. **HTML Structure:**

   - Created the main HTML file (index.html) with the necessary structure for header, main content, and footer.

2. **CSS Styling:**

   - Developed styles.css to design the layout, focusing on achieving a look similar to Netflix's grid structure.

   - Ensured responsiveness using media queries for various devices.

3. **JavaScript Interactivity:**

   - Implemented scripts.js to handle dynamic content loading.

   - Utilized JavaScript to fetch movie data from a sample API and update the UI accordingly.

Challenges Faced:

1. **API Integration:**

   - Challenge: Integrating a sample API to fetch movie data.

   - Challenge: Handling asynchronous requests and updating the UI seamlessly.

2. **Responsive Design:**

   - Challenge: Ensuring a consistent user experience across different devices and screen sizes.

Solutions Implemented:

1. **API Integration:**

- Implemented asynchronous JavaScript functions to handle API requests and update the UI dynamically.

- Utilized the fetch API for making HTTP requests to the sample API.

2. **Responsive Design:**

- Employed CSS media queries to ensure a responsive design that adapts to various screen sizes.

Learnings:

- Enhanced understanding of asynchronous JavaScript and API integration.

- Gained insights into responsive design techniques using CSS media queries.

- Improved skills in structuring HTML for scalable web applications.

Project Update:

The Netflix Clone project has reached a functional state, successfully mimicking the Netflix UI using HTML, CSS, and JavaScript. The team has overcome challenges related to API integration and responsive design, implementing effective solutions. The project demonstrates the practical application of front-end development skills and lays the foundation for potential future enhancements.