Girl Power Talk

Assignment: Data Visualization and Table Manipulation using Coinlore API

Deadline: 3 days

Objective: Create a web application using ReactJS/NextJS that fetches data from the Coinlore API (https://api.coinlore.net/api/tickers/) and displays it in a table. The table should have sorting and search functionality, allowing users to easily find and analyze cryptocurrency data.

Instructions:

1. Set up the project:
    - Use ReactJS/NextJS to create the web application.
    - Set up the necessary dependencies and project structure.
    - Create the required components for the table, search, and sorting.
    - Follow proper file structure and DRY (Don't repeat yourself) principle.
2. Fetch data from Coinlore API:
    - Use the Coinlore API endpoint "https://api.coinlore.net/api/tickers/" to retrieve the cryptocurrency data.
    - Make an API call to fetch the data in JSON format.
    - Handle any errors that may occur during the API call.
3. Create a table for displaying the data:
    - Design and implement a table component using the provided Figma file (https://www.figma.com/file/QY8xa5V6Uo3ClRtQ90JV5H/Tables-(Community)?type=design&node-id=1%3A60&t=UsItFXTxfZus0WzD-1).
    - Display the fetched data in the table.
    - Include columns for the following fields:
        - ID
        - Name
        - Rank
        - Price (USD)
        - Percent Change (24h)
        - Price (BTC)
        - Market Cap (USD)
    - Implement sorting functionality for each column, allowing users to sort the table data in ascending or descending order by clicking on the column headers.
    - Highlight the currently sorted column and display an arrow indicating the sort order.
4. Implement search functionality:
    - Add a search input field above the table.

- Allow users to enter a search query and filter the table data based on the entered text.
- Filter the data by comparing the search query against the "Name" and "ID" fields.
- Update the table in real-time as the user types in the search query.

5. Style and Design:
   - Use the provided Figma file (https://www.figma.com/file/QY8xa5V6Uo3ClRtQ90JV5H/Tables-(Community)?type=design&node-id=1%3A60&t=UsItFXTxfZus0WzD-1) as a reference for the table's design.
   - Implement the table and components using CSS or a CSS framework of your choice.
   - Ensure the application is responsive and displays properly on different devices and screen sizes.

Submission Guidelines:

- Push your project to a GitHub repository.
- Host the web app on free services like Vercel or Netlify
- Share the GitHub repository link and Live Website Link with us before the deadline.

Note: Remember to manage your time effectively and prioritize the required tasks to complete the assignment within the given deadline. Good luck!

Optional: Additional features (if time permits):

- Implement pagination for the table, allowing users to navigate through multiple pages of data.
- Add buttons or dropdowns for filtering the data based on specific criteria (e.g., rank, price, percent change).
- Include additional visualizations, such as charts or graphs, to provide a more comprehensive view of the data.