

Fullstack/Frontend Engineer Intern Assignment

Objective

This assignment tests your skills in fetching APIs, handling state, rendering tables, and implementing dynamic filters.

Requirements

1. Build a React application to display and filter data from an API

2. Get dummy data

(E.g. use https://dummyjson.com/products
You'll receive an object with a products array containing product data.)

3. Store the dummy data locally, write mock API calls using Promise & setTimeout to get and update the data.

4. Show data in a table

Display the following fields in a table:

- Title (Make this field editable, user should be able to edit the product name)
- o brand
- category
- o price
- o rating

5. Make each row in the table deletable

6. Create filters for each column

- o Each column should have a drop-down filter.
- The filter values should be dynamically populated based on currently available results (i.e., with all other filters applied).



 Example: If the user selects a brand, the category dropdown should only show categories available in the filtered result set.

Technical Requirements

- Use React (CRA or Vite).
- Use functional components and React Hooks.
- Styling is not the focus, but keep the UI readable.
- Don't use third-party table or filter libraries (like Material Table, React Table, etc.).

Bonus (Optional)

- Add a reset filter button.
- Add a loading state and error handling for the API call.
- Display a "No results found" message if filters return no data.

Deployment

- Hosting: Deploy the application on a free hosting platform (e.g., Heroku, Vercel, Netlify).
- Accessibility: Ensure the deployed application is fully functional, responsive, and accessible via a public URL.
- **Environment Variables:** Securely manage any API keys or environment variables needed for deployment.



Deliverables

- 1. **GitHub Repository:** A public repository containing all source code, organized in a clean and logical structure.
- 2. **Deployed Application URL:** A live link to the deployed application for testing and review.
- 3. **README File:** Include setup instructions, the deployed URL, technologies used, and any necessary configurations.
- 4. **Documentation:** A brief document (approximately one page) explaining your development approach, challenges faced, and solutions implemented.

Submission Instructions

Please submit the following via the Google form link shared in the email:

- GitHub Repository Link
- Deployed Application URL
- Documentation File
- Loom Video walking us through your final submission:
 - o Codebase Structure:
 - Explain component hierarchy, state management.
 - o Demo of Working Features :
 - Show critical user flows.
 - Key Technical Decisions:Why did you choose specific libraries/patterns?

Note: Al generated/supported assignments will not be considered

We look forward to reviewing your application. If you have any questions or need clarifications, feel free to reach out. **Good Luck!**