Aptitude Test for BMW IT Internship Position

Goal

Create a Generic DataGrid component using AG Grid (React) and integrate Backend Service (ExpressJS).

Library Links

- React MUI: https://mui.com/
- React AG Grid: https://www.ag-grid.com/react-data-grid/getting-started/

Additionally, use React MUI for styling the application. Use the attached data set as a CSV file for testing the Generic DataGrid app.

Requirements:

1. **DataGrid Component:**
   - The DataGrid component should handle any structural data with N columns and display it.
   - It should include an "Actions" column by default for custom actions like "View" and "Delete."
   - Clicking "View" should navigate to a detailed page with a back button to return to the DataGrid.
2. **Search (Use Backend API):**
   - Implement a search feature to filter and list entries matching the search.
3. **Filtering (Use Backend API):**
   - Add a filter feature for specific column criteria like "contains" ,"equals", "starts with" ,"ends with", "is empty", "greater than", "less than".
4. **Backend Service:**
   - Create an APIs in Express.js to provide data to the DataGrid component.

Database:

- Use MySQL database for data storage.

   Optionally, explore additional AG Grid features for enhanced user-friendliness.

Results Summary:

- Prepare a presentation summarizing and showcasing your results.
- Upload the final code to a GitHub repository.
- Create a short video demo of the developed app.
- Provide all results for BMW's review to discuss further steps regarding your internship application.

Many thanks for your interest, efforts, and good luck!

BMW IT team at Battery Cell Competence Center