Generic Table

ReactJS Web Component – Ag Grid

This component showcases an advanced, interactive, and generic data table built on the ReactJS, incorporating TypeScript for added type-safety and easier maintainability. It leverages the power and flexibility of the Ag Grid library, which is renowned for its vast array of features and performance capabilities when dealing with large data sets. Furthermore, to present a visually appealing interface and ensure seamless user experience, Material UI, a widely recognized CSS framework, is used for stylistic designs. The combination of these technologies provides a robust and efficient solution for diverse data visualization needs, offering a comprehensive set of features, from simple adding, editing, and deleting table entries to more complex functionalities such as sorting and multiple filters.

## How to use

To utilize the <GenericTable /> component, you need to define a set of properties that satisfy the GenericTableProps interface.

* defaultInputRow: it is essentially a blueprint Object for your data, it is used for the pinned row for adding entries.
* colDefs: an array of column definitions, utilizing Ag Grid's ColDef datatype. This allows the customization of the table columns. Please refer to [Ag Grid Column Definitions](https://www.ag-grid.com/javascript-data-grid/column-definitions/) for more information.
* requestUrl: a string URL for your API request to fetch data.
* firstColumnCheck (optional): to true if you want to add checkboxes to the first column in the table for deletion purposes.
* saveChanges (optional): a callback function that you can provide to handle the changes made to the data in the table. This function will receive an array of the updated rows.
* callbackFunc (optional): can be used to transform the data after it is fetched but before it's loaded into the table. It is a promise-based function, allowing for asynchronous operations if necessary.

## Example

1. Countries Table -> <https://restcountries.com/>

A screen shot of a computer code

Description automatically generated with low confidence

2. Starships Table -> <https://swapi.dev/>

A screen shot of a computer program

Description automatically generated with medium confidence