

Description:

As a front-end engineer, you are assigned the following story within Jira. There is a need within the agency to display third party data within a data grid. The grid should be 100% dynamic as the data feed is always being updated. However, the schema of the model remains the same, for example; you can always expect an array of objects with the following format:

```
[{key0: val, key1: val, key2: val, key3: val},  
{key0: val, key1: val, key2: val, key3: val},  
{key0: val, key1: val, key2: val, key3: val},  
{key0: val, key1: val, key2: val, key3: val}]
```

It is given that the key(n) field represents a cell within the data grid's header and that its value should be placed within the corresponding cell of the data grid's body. To clarify, one data feed may only have three keys, while another may have ten. The grid needs to accept any dataset given the proper form.

Deliverable:

Utilizing a modern JS approach, build a data grid using React and Redux. For your dataset, please select any open source API that returns back a dataset and then simply map over the result set to return a well-formed dataset that meets the requirements. *Note, I should be able to swap in an alternate API and update the key so that I can test the dynamic nature of the grid.* Please make sure to deliver atomic components within the source code. The end deliverable should be a zip file that can be ran locally with minimal setup.

Guidelines:

- For your starter code feel free to use <https://github.com/facebook/create-react-app>
- Limit any use of third party js libraries with the exception of an XHR helper
- Use a real API, do not map over a local dataset that you hardcoded
- Limit the Grid to no more than 50 rows, paging is not needed
- Think about presentation

Extra Credit:

- Add sorting to header cols
- Add an aggregate row to the bottom of the grid that provides the sum of all numerical values within the column

Best of Luck and Happy Coding ☺