

Overview

This work item covers creating a simple Grid component to view and manage a list of users. This should be implemented in React using the React MUI library components

<https://mui.com/material-ui/getting-started/>

Goals

- Implement a Grid view that allows users to manage the list of users
- Facilitate the common CRUD actions
 - Create - add a new user
 - Read - Open a user to read its property values
 - Update - Edit an existing user and save it
 - Delete - Remove a user from the data set

Requirements

- MUI Components
 - Utilise only MUI library components
- Grid
 - General - Implement a MUI Grid to show a table view of the user data
 - Columns - Show a column for each data field for the users
 - Sorting - allow columns to be sorted
 - Filtering - disable the Grid filtering features
 - Toolbar- include the toolbar for the action buttons
- User Data
 - Each user must include the follow properties
 - First Name, Last Name and Age
 - Use the appropriate input type for each property
- Actions
 - The Grid must have actions available in the toolbar to allow for
 - Add New - Adding a new user to the grid
 - Edit - Selecting an existing user to edit

- Delete - Selecting a user in the grid to delete
- User Dialog
 - Implement the user CRUD actions via a Dialog

Design

- MUI Theme - use the default MUI theme for the UI design
- Icons - Using the included Material Icons, include them in the UI where you deem appropriate.
- Layout - this is primarily a front end technical test, so the UI design and layout is not a critical part of the assessment. However adding a simple title and ensuring the Grid is responsive inside the viewport would replicate how it's implemented in a production product.

MUI components

Components utilised in this task

- MUI Documentation - <https://mui.com/material-ui/getting-started/>
- Dialog - <https://mui.com/material-ui/react-dialog/>
- Text Field - <https://mui.com/material-ui/react-text-field/>
- Buttons - <https://mui.com/material-ui/react-button/>
- Grid - <https://mui.com/x/react-data-grid/>

Assessment Criteria

- How far through did you get in the task? Did you complete it all?
- What was your process for breaking down the tasks into manageable steps?
- Which aspects posed a problem or difficult learning for you?
- What do you think of the MUI library?
- Talk about a particular aspect/element and why you think it would be easy to maintain
- Do you have any technical questions after completing this task

Optional Extension

These extensions are completely optional for you to add to the task and are primarily here to illustrate how a UI like this would be extended further in our products.

- Add another property for users. Add it as a column and in the form. Add a property that uses a new input type e.g. select, switch, toggle buttons, rating
- Add a search input to the Grid toolbar to filter the users by name
- Add pagination to the Grid