Full-Stack Developer - Test Assignment

Overview

MoonActive Operations team is using the Promotions screen in order to set a list of promotions for specific users, the table list contains 10,000 rows of promotions (each row has one promotion assigned to specific users group).

The Operations team raises one request:

1. Currently, the 10,000 rows are navigated using paging, they would like to use lazy loading and to be able to scroll from top to bottom.

Assignment

Your assignment is to Build the new Promotions screen that will have a table structure and will be able to host at least 10,000 rows with infinite scrolling without any performances issues (keeping a limited number of rows in the DOM or Browser Memory)

Technical Stack

- Node.js
- React
- MongoDB

Requirements

- Use Node.js for all backend related tasks.
- Use React best practice with attention for SPA and responsiveness.

Detailed Requirements

1. Build the UI to reflect the below structure:
   - Promotion name.
   - Type (Basic/Common/Epic).
   - Start Date.
   - End Date.
   - User Group Name.
   - Actions button that will have a clickable icon that will open a menu with options: Edit, Delete, Duplicate (Please implement those actions).
2. Add a button in the UI that by clicking on it a 10,000 rows data of content will be created.
3. Load the table with the data content, remember: Don't overload the DOM and Browser Memory, make sure only a limited number of rows are existing in any given time while scrolling any direction.

If You Want to Shine:

- Use Typescript.
- Use MongoDB for the data content (it's recommended to use a managed service like Atlas...).

- Make the UI look nice and responsive (you can use one of the free open source frameworks).

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