Front End Engineer

Practical Test

Prepared by: Denzehl Homeres
Last updated: 27/10/2022

Problem

TO-DO Board Solution

Task is to Create a To-Do Board that has the following features:

- ❖ Basic Authentication
  - ▪ Please make sure to apply best practices when applying the authentication mechanism for your Front End & Back End
- ❖ Ability to create categories/labels.
- ❖ Ability to create Tickets that can be assigned to each category/label.
  - ▪ The board must have a drag-and-drop design Language similar Jira/Trello when assigning a ticket.
  - ▪ **Do not use a library for this feature**. Utilize the HTML Drag and Drop API
- ❖ A **Ticket** must have three properties.
  - ▪ Title
  - ▪ Description
  - ▪ Expiry Date
- ❖ The Ability to Edit all three properties.
  - ▪ If a ticket description edit is interrupted (Similar to Jira) unless a hard refresh is done the value will be drafted and will be available when the ticket is opened.
- ❖ When Expiry Date is Near. Application should notify the user in a way that is both intuitive & user friendly.

BONUS requirements (*If you are passionate, feel free to attempt*)

- Apply Type checking using TS
- Ability to track Update History
- Ability to See Card Update History
  - ▪ Example output:
    - i. Card 1: Has been moved to **In Progress** on Jan 25 2022 16:04
    - ii. Card 2: Has been moved to **Done** on Feb 2 2022 11:04
    - iii. Card 1: Has been moved to **For Review** on Feb 1 2022 10:04

Requirements

- ❖ For the Front-End (FE) please use any of the following libraries/frameworks **Nextjs, React, Vuejs, Angular**.
- ❖ Utilize one of these technologies to style your application.
  - SASS
  - LESS
  - Tailwind
- ❖ For the Back end (BE), feel free to use any Framework that you are comfortable with.
- ❖ The FE must connect to the BE to request information in a safe and reliable manner.
- ❖ The BE must save all relevant data in a Database. You are free to choose what kind of technology (database) to use here.
- ❖ Please submit your work on a publicly accessible Git repository. **A repository with only one commit is not acceptable. It will be considered a "FAIL". Showing the development process is just as important as the task itself.**
- ❖ Please include a README with installation and usage instructions

Assessment Criteria

\# Submission meets requirements.

\# Submission demonstrates some knowledge of application design.

\# Separation of concerns.

\# Simplicity.

\# UI is easy to use and displays information clearly.

\# Code demonstrates consistency and adherence to common standards.

Good Luck, and if you have any questions, feel free to email Mahamud (mahamud@ad-group.com.au) anytime!