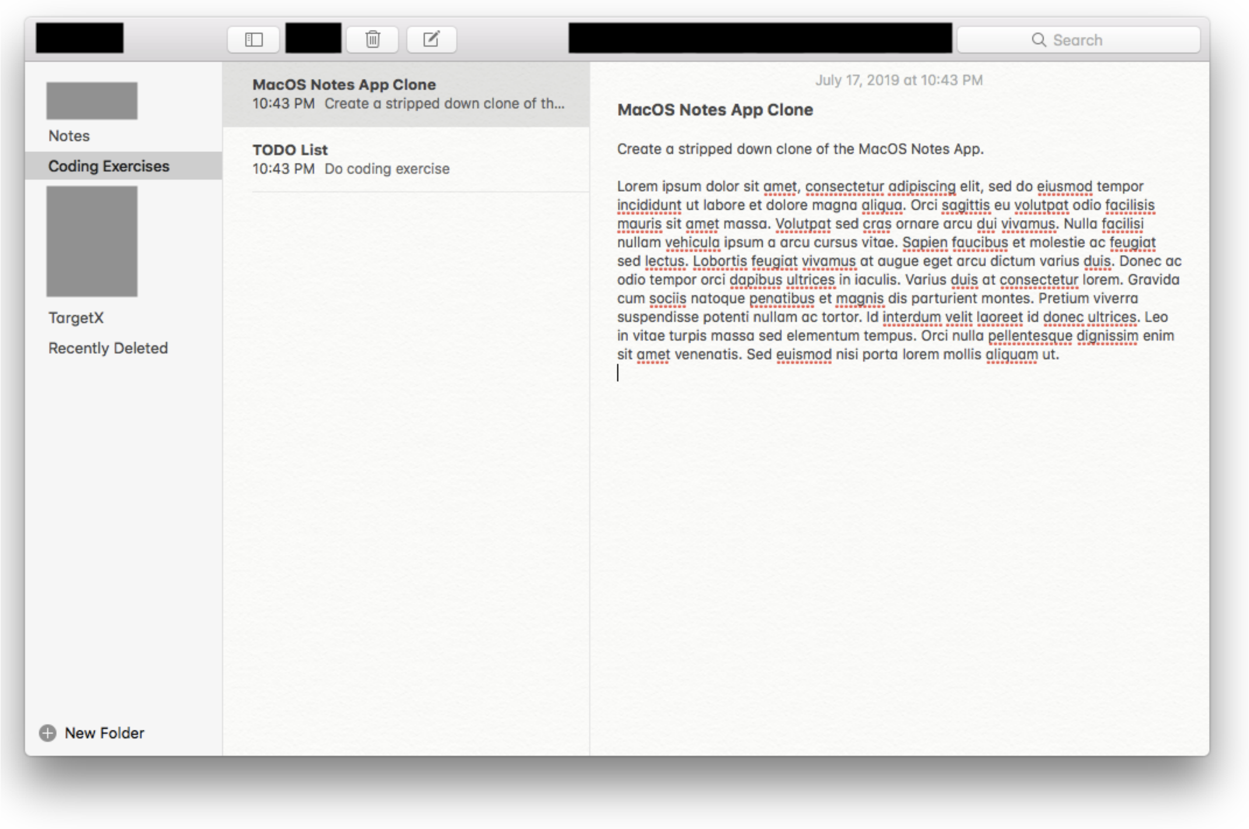
Frontend Developer Coding Exercise

Aug 2021

Overview

The purpose of this coding exercise is to create a browser-based clone of the [MacOS Notes App](#).



MacOS Notes App Clone
10:43 PM Create a stripped down clone of th...

TODO List
10:43 PM Do coding exercise

July 17, 2019 at 10:43 PM

MacOS Notes App Clone

Create a stripped down clone of the MacOS Notes App.

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- The look and feel of your app SHOULD reflect the UI/UX of the MacOS Notes App (see screenshot above). However, you do NOT need to match the UI exactly pixel-for-pixel. For this exercise, the functionality of the app is more important than the UI. You MUST implement the core functionality as outlined below.
- Your app MUST exhibit full CRUD functionality and data persistence. However, we do NOT expect you to write a full backend API for data persistence. Please see the note below about using [Typicode's My JSON Server](#) as a “fake” placeholder REST API.
- Your object model MUST (at minimum) have the following entity and fields:
  - **“Note”**: an entity which represents your note and its content
    - id

        - content
        - time created
        - time modified
        - folder ID or folder name
            - Whether you have a “Folder” object or just a name, is up to you.
- You MUST use React 16.8+ to implement the UI.
    - We strongly recommend you use the Create React App project as a starting point to simplify your development and our ability to run your project locally for assessment.
    - You MUST use either Class Components OR Functional Components with Hooks.
    - You MUST use React’s built-in state management capabilities (i.e., this.setState or useState hook). Please avoid using a state management library (e.g., Redux).
- You must host your code in a GitHub repository. In order to assess your project, we should be able to clone your Git repository locally and run it by doing “npm start” in the Terminal. No other steps should be required for us to get your app running locally.
- The due date for this exercise is open-ended. Some people might take a couple of days, some might take a week. We understand many of you are busy with your current job and existing projects and finding time to work on a project like this could be difficult. However, we believe that by spending an hour or two per day over the course of a few days, should be plenty of time to produce a decent app for your submission.

Functionality

- Folder List
    - Shown in the left-most sidebar (see screenshot above)
    - Folders listed in alphabetical order
    - Ability to create new folders
- Notes List
    - Shown in the middle panel (see screenshot above)
    - Notes listed for the currently selected folder
    - Notes listed in order of most recently modified
    - Ability to create new notes in the selected folder
    - The first line of the note’s content is used as the title for the listing
    - Ability to select a note from the list and start editing it
    - Ability to delete currently selected note
- Note Editor
    - Shown in the right-most panel (see screenshot above)
    - Ability to edit the note's content
    - Does NOT need to support WYSIWYG editing, simple text is sufficient
    - Should auto-save when the “Return/Enter” key is pressed on the keyboard
- *Extra Credit*
    - Write unit tests. For the sake of time, you can just write a few tests to demonstrate this skill.
    - Ability to toggle (open/close) the Folder List sidebar
    - The second line of the note's content is used as a short text preview in the Notes List

    - Display an alert or confirmation when your note has unsaved changes when you switch to a different note or folder
    - Ability to search through all notes (by content) and display matching notes in the middle panel (Notes List). Clearing the search term would show all notes.

Typicode My JSON Server

Since this is a Front-End focused position, you are NOT expected to build your own backend API server from scratch. However, we do want to assess your ability to integrate with a backend API server from your client-side React UI code. As such, you should use Typicode's My JSON Server as a "fake" placeholder REST API for rapid development purposes. You should use this placeholder API server to persist and retrieve your Note objects.

Good luck!