Frontend Implementation exercise

1. Requirements / Intro

You need to implement a User Interface for a simple web application that allows you to take notes, tag and filter them.

IMPORTANT CONSIDERATIONS:

- Since there will be no backend, content can be persisted in **localStorage or in memory**

2. Deliverables

To pass this exercise, in addition to the implementation, you must

- Upload the code to a private **GitHub repository** given by staff and use git properly.
- Include a bash / zsh script allowing to run the app - ideally, the app should start in a Linux/macOS environment just **running one command**. This command should set up everything that is required to run the app like pre-creating any config file if required.
- Include a **README.md** file describing all the runtimes, engines, tools etc. required to run the app, with their concrete versions - for instance, npm 16.15.1, yarn 1.12.19, etc..

3. Technologies

The User Interface should be done in **React** following the requisites below:

- Structure the app as a Single Page web Application, which is the classical way of implementing User Interface when using vanilla React
- The usage of a **component library** like React Bootstrap or Material UI is extremely encouraged
- A set of services, functions/scripts or a state-management library like Redux need to be implemented for storing app state - since there will be no backend

4. User Stories and mockups

In the following section you will find a set of mockups that describe the user stories and user interfaces that will use your API so you can design and implement it properly

User Stories

- As a user, I want to be able to create, edit and delete notes
- As a user, I want to archive/unarchive notes
- As a user, I want to list my active notes
- As a user, I want to list my archived notes
- As a user, I want to be able to add/remove categories to notes
- As a user, I want to be able to filter notes by category
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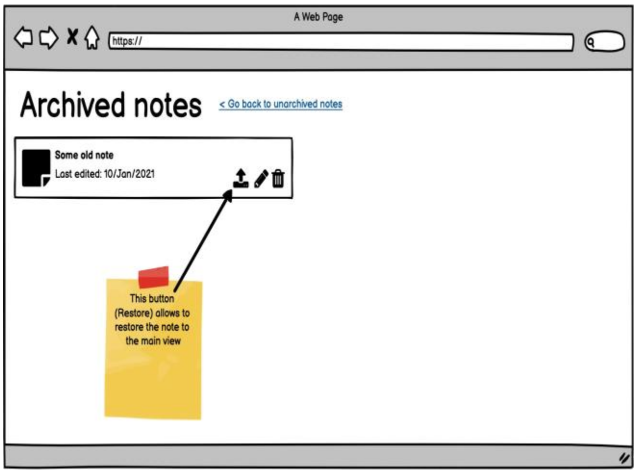
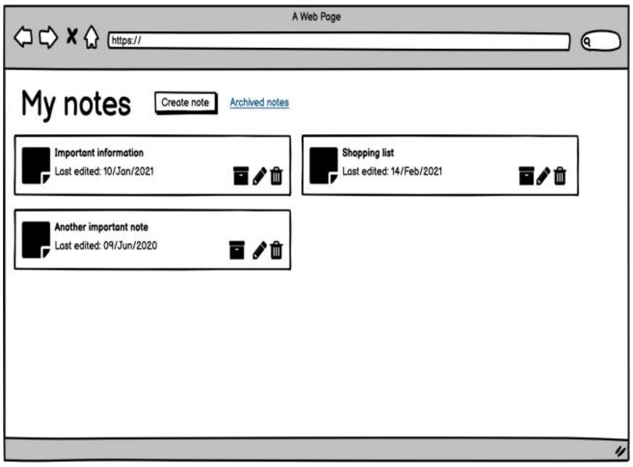
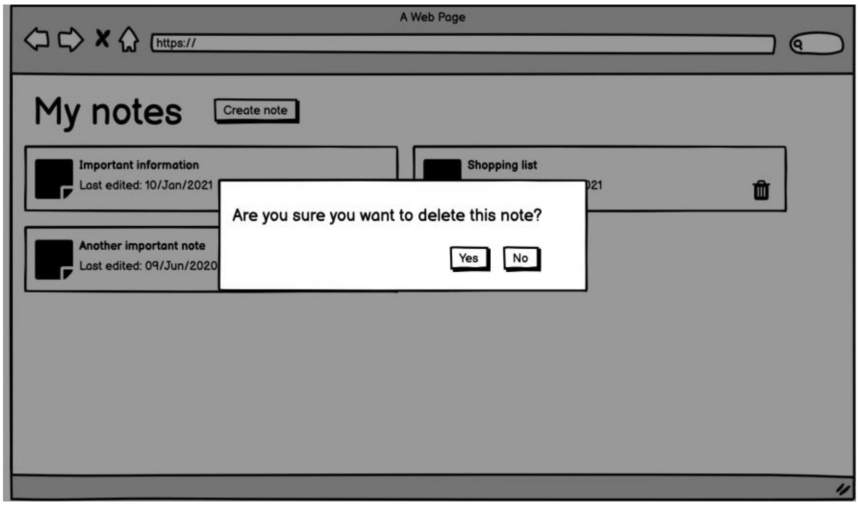
Archived notes view



This button (Restore) allows to restore the note to the main view

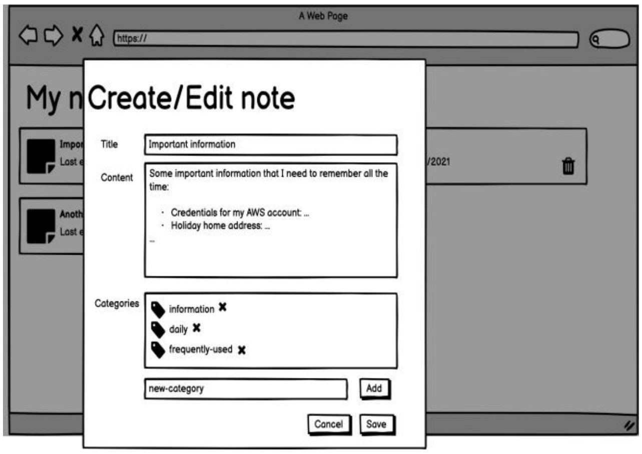


Confirmation dialog for deleting notes



Are you sure you want to delete this note?

Look and feel of the create/edit functionality



Create/Edit note

Title: Important information

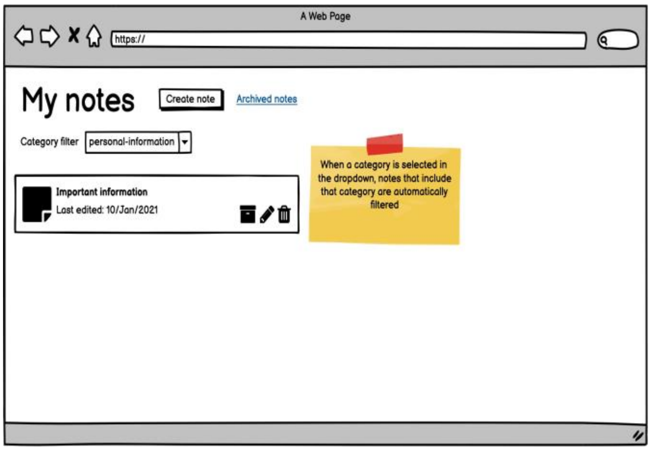
Content: Some important information that I need to remember all the time:

- Credentials for my AWS account: ...
- Holiday home address: ...

...

Categories: information ✖ daily ✖ frequently-used ✖

new-category



My notes

Category filter: personal-information

Important information
Last edited: 10/Jan/2021

When a category is selected in the dropdown, notes that include that category are automatically filtered

5. Extra functional and non-functional requirements

These features will provide **EXTRA POINTS** to your exercise results if done

- **Login**: If you provide a login screen that allows users to log in and out from the app - you need to document the default user/password used in README.md.
- **Live deployed version**: If you deploy the app (for instance via Heroku) and you share the URL of the live running version.