GROUP 3 June 15, 2024

Mobile Programming

Tran Anh Vu Pham Ngoc Thuy Nhung Doan Thi Thuy Linh Content June 10, 2024

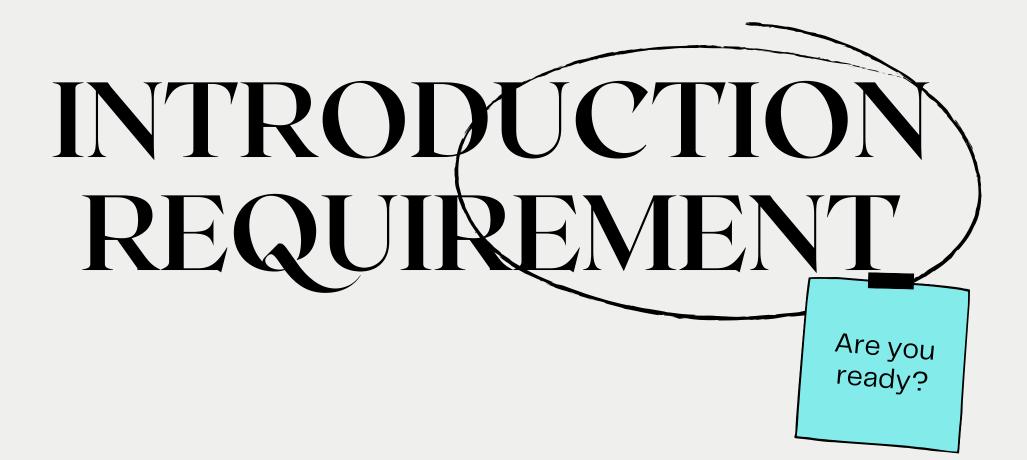
Q Table of content

INTRODUCTION REQUIREMENT

3 ISSUES AND OVERCOME

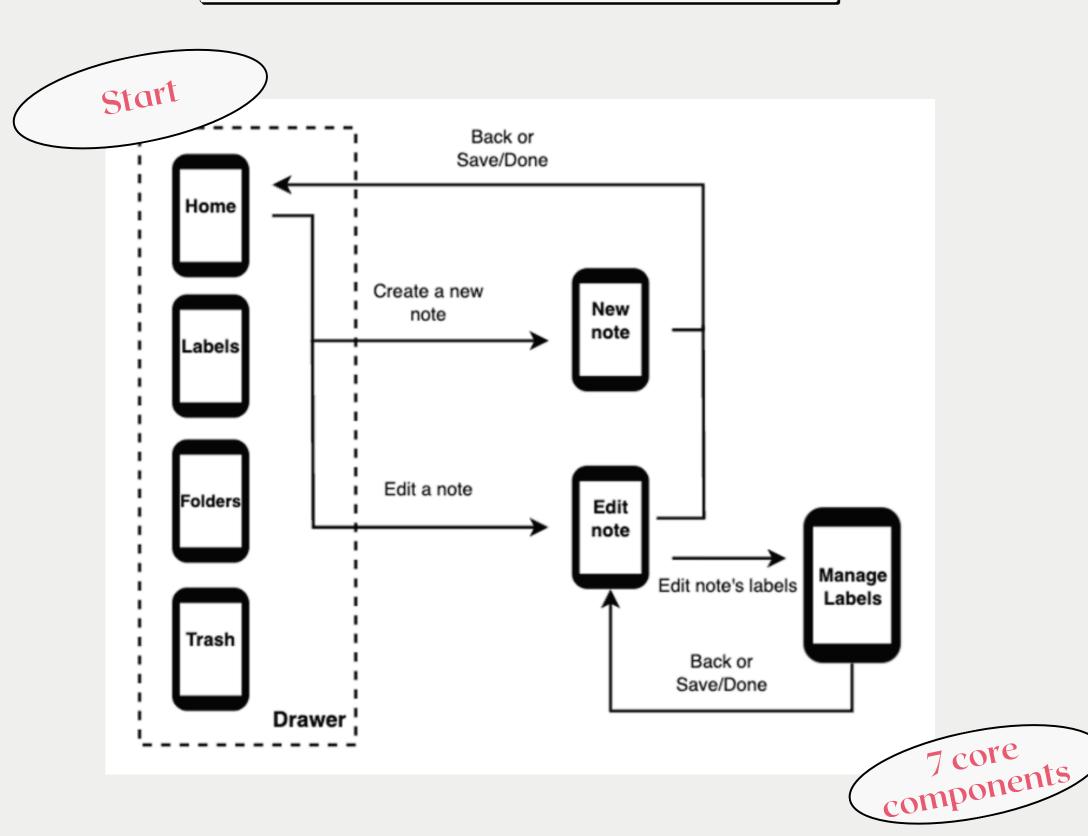
2 PROCESS MAKING

4 RESULTS



Analysis requirement

Q Navigation of apps



6 mandatory, 1 optional

Home Screen

- Display all notes (scrollable list), handle empty state.
- Fr2 Navigate to New Note screen.
- Fr4 Search notes by content.

New note screen

Input for note content

Edit note screen

- Fr3.1 Display and update note content.
- Fr3.2 Toggle bookmark status.
- Bottom sheet menu for color, labels, and delete.
- Navigate to Manage Labels screen.
- Fr3.5 Move note to Trash.

Manage Labels Screen

- Display available labels as buttons.
- Link/unlink labels to the current note.

Labels Screen

- Fr5 Search labels, create new labels.
- Fr6 Edit (update/delete) existing labels

Trash Screen

- Fr7 Display trashed notes.
- Restore or permanently delete individual notes.
- Fr9 Restore all or empty Trash.

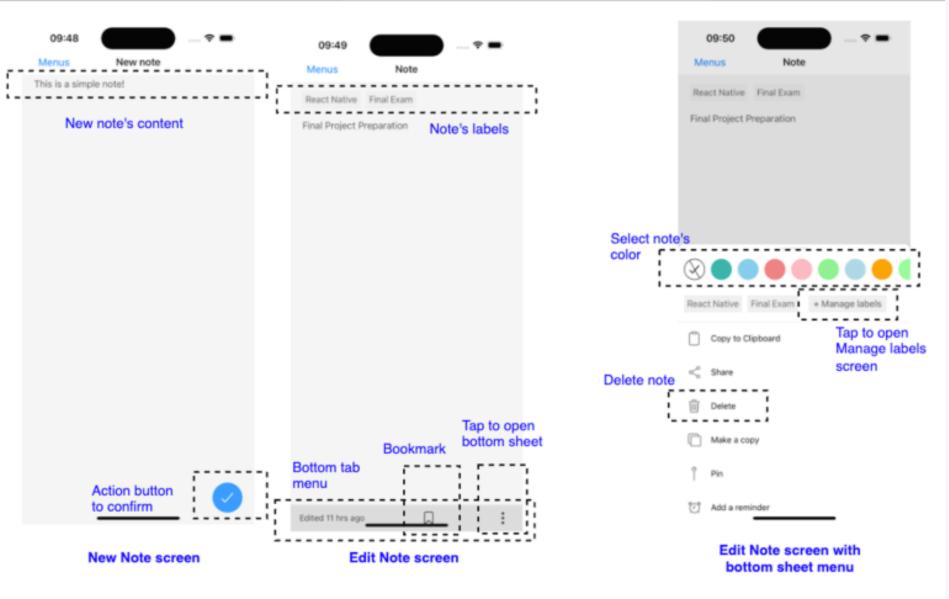
Folders Screen (Optional)

INTRODUCTION REQUIREMENT

UI Design

These are UI requirements





PROCESS MAKING

June 2, 2024





This is our version android User Interface

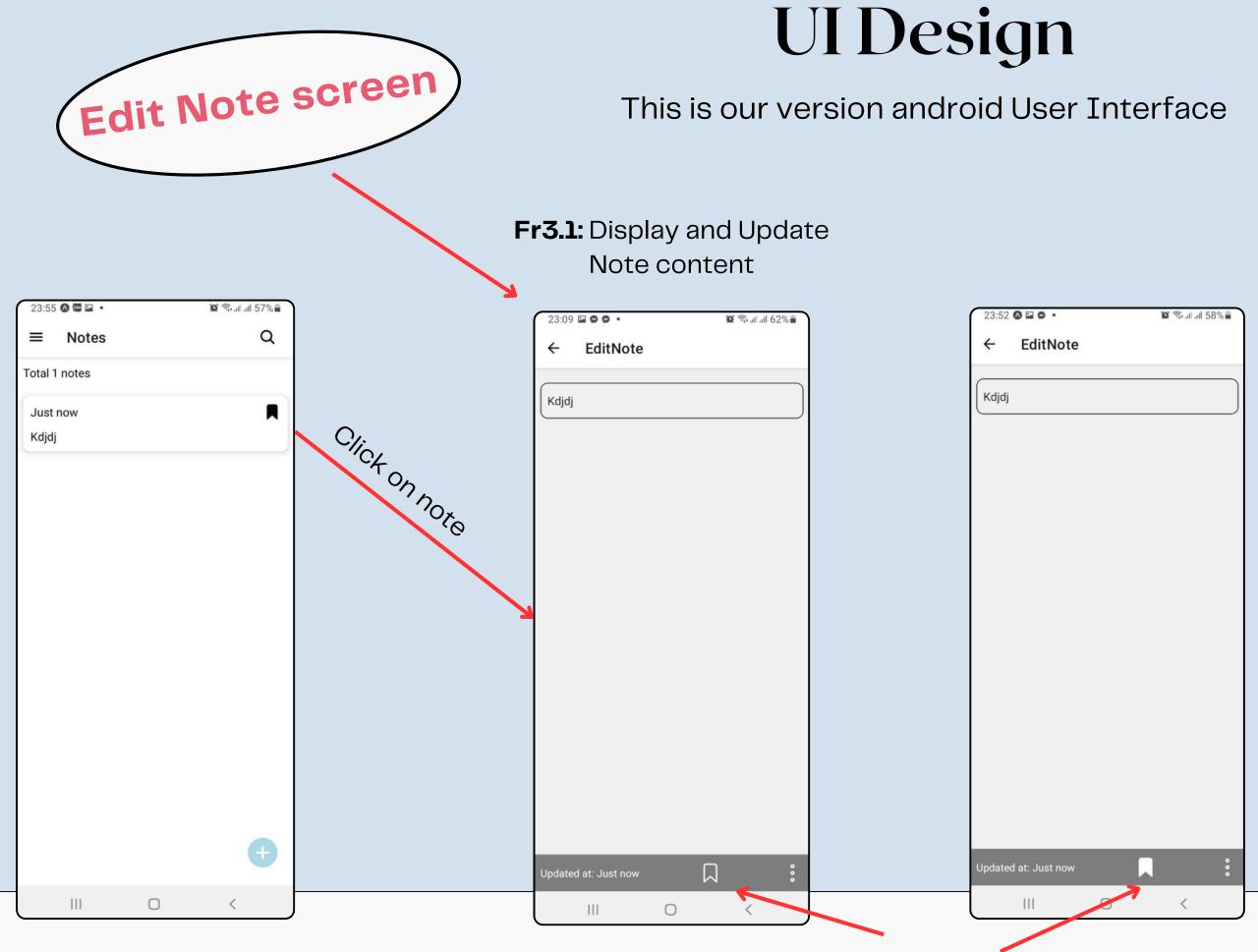
Navigate to New Note screen. Fr2: Navigate to New Search notes by content. Note screen Navigation bar Fr1: List all existing notes Fr1: Handle empty state 23:09 🖸 🖬 🗗 • **10** कि.⊪ lal 62% **i** 23:31 🛭 🗀 🖸 • NewNote Q **Notes App** Q \equiv Q Notes Notes Home Total 6 notes Please add a new note Fr4: Search Take a note.. Labels 7 days ago React Native Mini project Trash Integrate Redux with React Native May 14, 2024 Redux Input text and an action button to Discarded note allow the user to add a new note May 12, 2024 React Basics Learn React Basics May 11, 2024 Mini project Work Work on mini project May 10, 2024 React Native Redux Final Project \bigcirc 111 \circ

PROCESS MAKING

Home Screen

handle empty state.

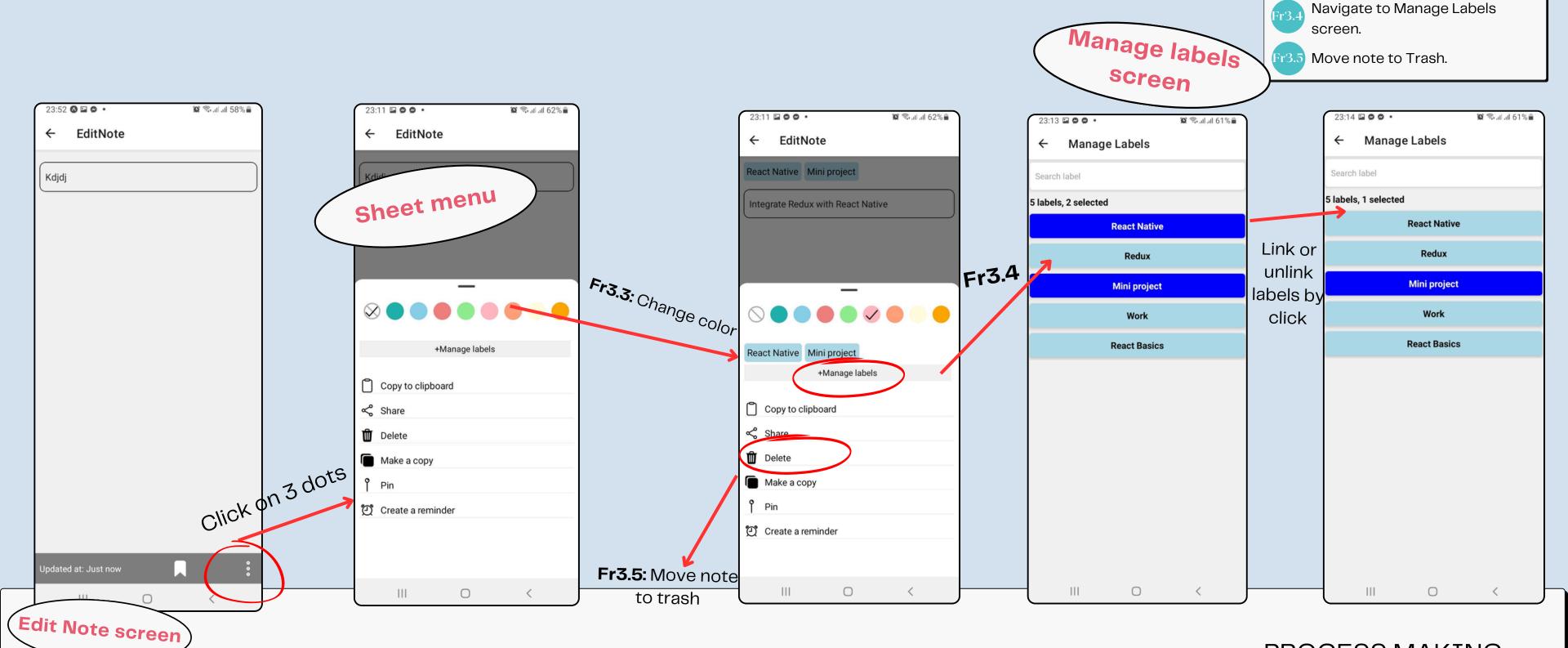
Display all notes (scrollable list),



Edit note screen

- Fr3.1 Display and update note content.
- Fr3.2 Toggle bookmark status.
- Bottom sheet menu for color, labels, and delete.
- Navigate to Manage Labels screen.
- Fr3.5 Move note to Trash.

This is our version android User Interface



Edit note screen

Fr3.1 Display and update note content.

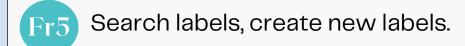
Toggle bookmark status.

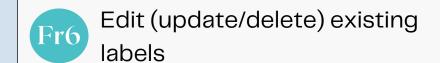
labels, and delete.

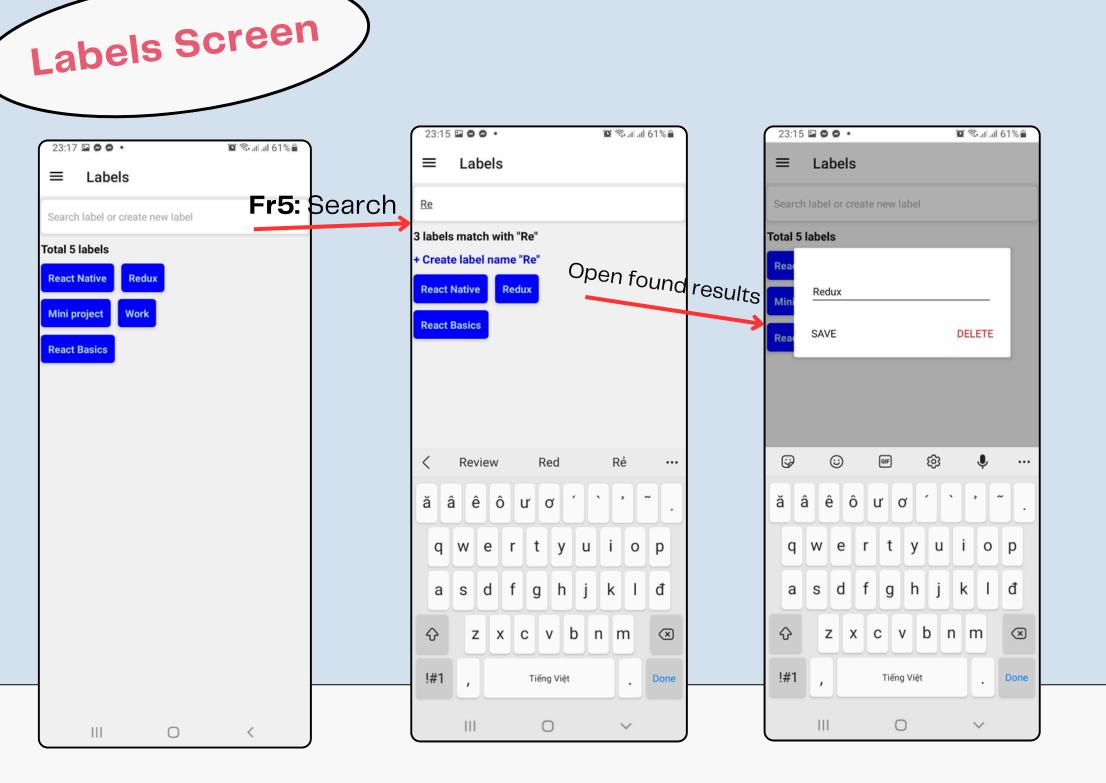
Bottom sheet menu for color,

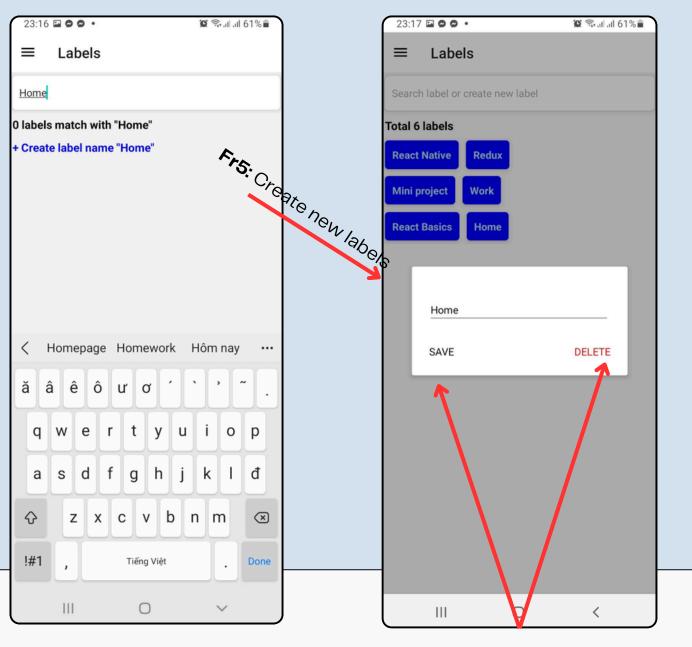
This is our version android User Interface

Labels Screen







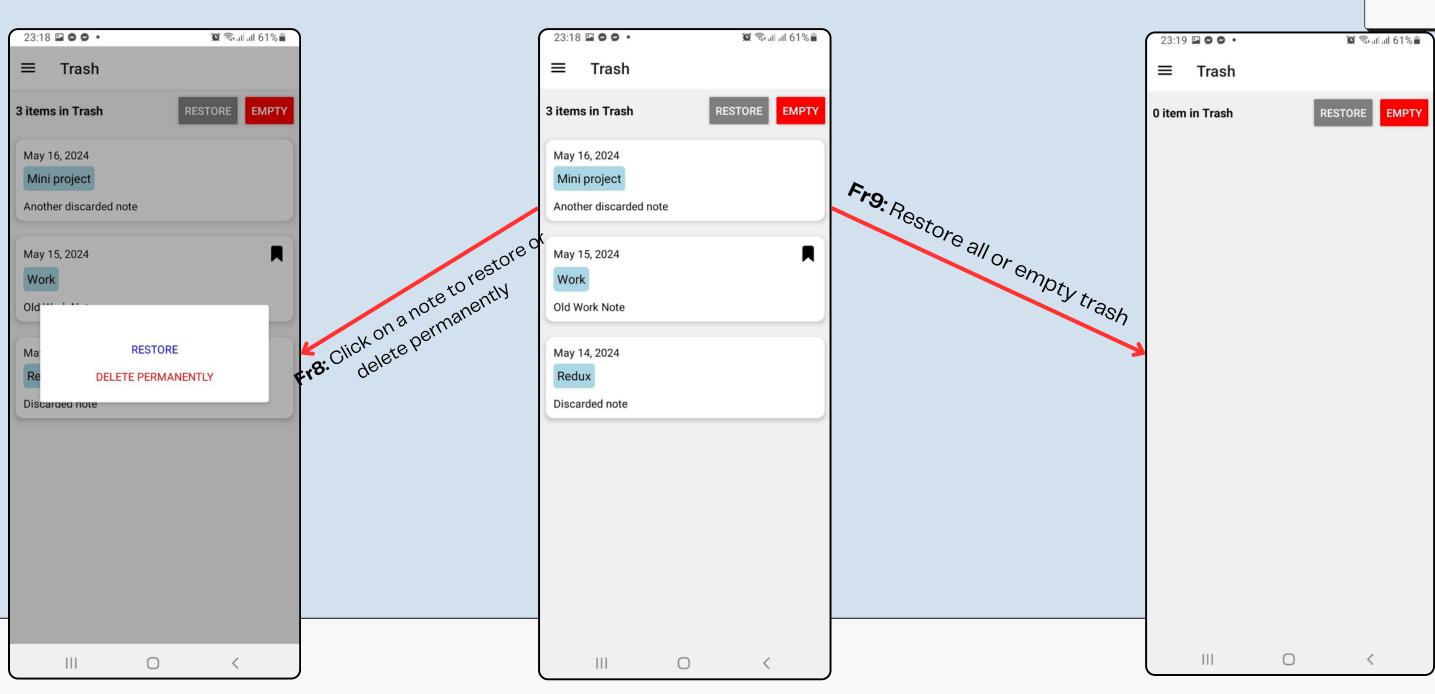


Fr6: Edit (update/delete) existing labels

This is our version android User Interface

Trash screen

Fr7: Display trashed notes

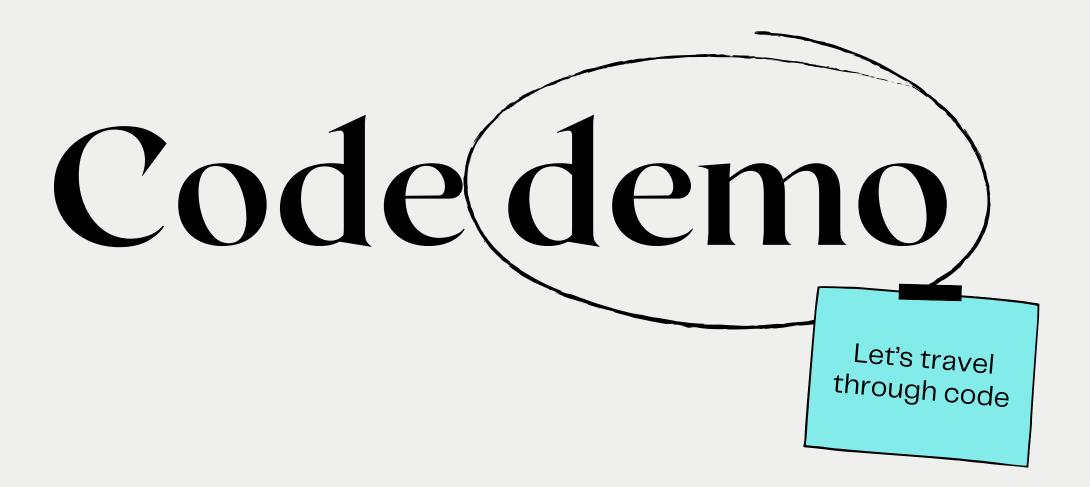


Trash Screen

- Fr7 Display trashed notes.
- Restore or permanently delete individual notes.
- Fr9 Restore all or empty Trash.

PROCESS MAKING

June 10, 2024



Overall folder

component

screen

2 database

5 utils

models

6 App.js

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>	.expo	
>	assets	
>	components	
>	database	
>	models	
>	node_modules	
>	screen	
>	utils	
JS	App.js	M
-{}	app.json	
\mathcal{B}	babel.config.js	
{}	package-lock.json	М
{}	package.json	М

Q component

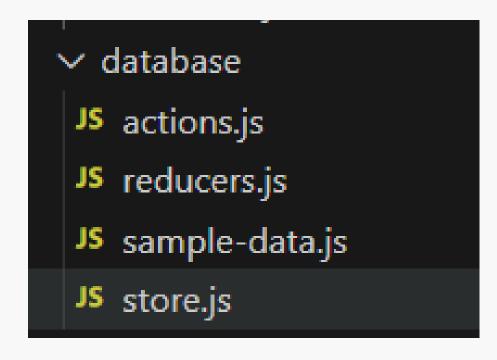
This is the function of each file code

- components
- JS CustomDrawer.js
- JS ExistedNotes.js
- JS LabelList.js

PROCESS MAKING

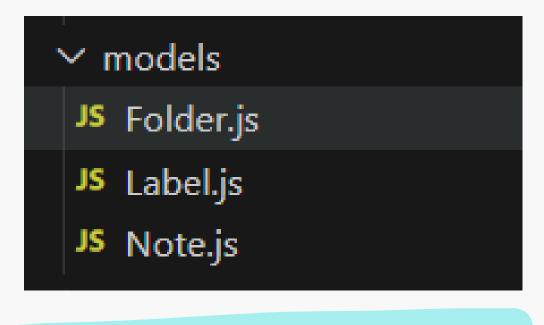
- CustomDrawer.js: Contains the DrawerComponent to display the application's navigation drawer with the title "Notes App" and a list of navigation items.
- ExistedNotes.js: Contains the ExistedNotes component to display a list of saved notes, each note can be selected to navigate to the editing screen. It displays information such as the update date, label, and content of the note.
- LabelList.js: Contains the LabelList component to display a list of labels related to a note.

Q database



- actions.js: Contains action creators defining the types of actions used in the application, including adding, updating, deleting notes and labels, restoring notes, permanently deleting notes, and cleaning up the trash.
- **reducers.js:** Contains reducers handling actions defined in actions.js and updating the application's state. It includes reducers for notes, labels, and the trash.
- **sample-data.js:** Contains sample data for labels, colors, folders, and notes used to initialize the application's initial state.
- **store.js:** Contains the Redux store configuration, initializes the initial state based on sample data from sample-data.js, and combines reducers from reducers.js

Q models



- Folder.js: Defines the Folder class with attributes such as id, folderName, and updateTime. Folder objects are used to store information about folders in the application.
- Label.js: Defines the Label class with attributes such as id and label. Label objects are used to store information about labels in the application.
- Note.js: Defines the Note class with attributes such as id, content, color, labelIds, updatedAt, isBookmarked, and folderId. Note objects are used to store information about notes in the application.

Q screen

- ✓ screen
- JS EditNoteScreen.js
- JS HomeScreen.js
- JS LabelsScreen.js
- JS ManageLabelsScreen.js
- JS NewNoteScreen.js
- JS TrashScreen.js

- EditNoteScreen.js: Contains a component to display and edit information of a note.
- HomeScreen.js: Contains a component to display the home screen of the application, including saved notes.
- LabelsScreen.js: Contains a component to display and manage labels in the application.
- ManagementLabelsScreen.js: Contains a component to manage labels, such as adding, editing, and deleting labels.
- NewNoteScreen.js: Contains a component to create a new note.
- TrashScreen.js: Contains a component to display and manage deleted notes (trash).

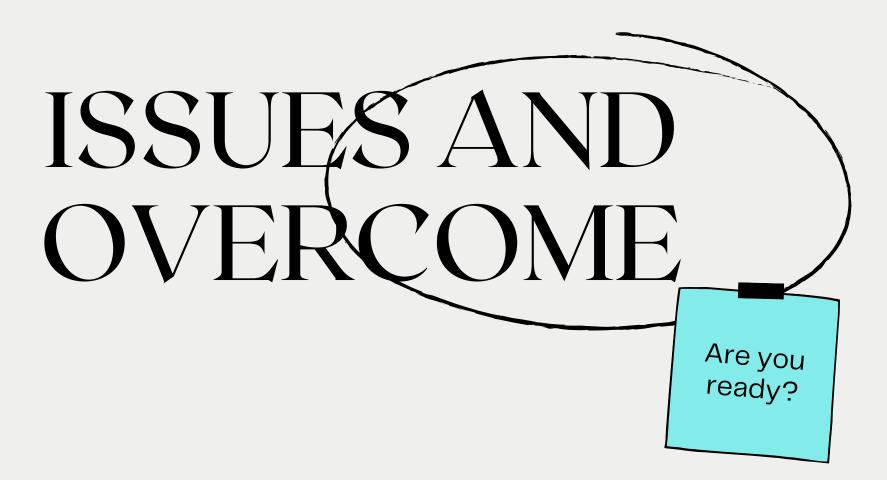
Q utils & App.js

```
✓ utils

JS dateUtils.js

JS App.js
```

- dateUtils.js: Contains utility functions for formatting and manipulating dates, such as formatUpdatedAt.
- App.js: This is the entry point file of the application, initializing and configuring the React Native application, including: Setting up navigation between screens. Configuring the Redux store and linking it with reducers. Setting up providers (e.g., NavigationContainer, ReduxProvider) to provide services throughout the application.



ISSUES AND OVERCOME June 12, 2024

```
export default function App() {
  return (
    <Provider store={store}>
      <NavigationContainer>
        <StatusBar style="auto" />
        <Drawer.Navigator</pre>
          initialRouteName="Home"
          drawerContent={(props) ⇒ <DrawerComponent {...props} />}
          <Drawer.Screen
            name="Home"
            component={HomeStack}
            options={{
              headerShown: false,
          <Drawer.Screen name="Labels" component={LabelsScreen} />
          <Drawer.Screen name="Trash" component={TrashScreen} />
        ✓Drawer.Navigator>
      </NavigationContainer>
    ⟨Provider>
```



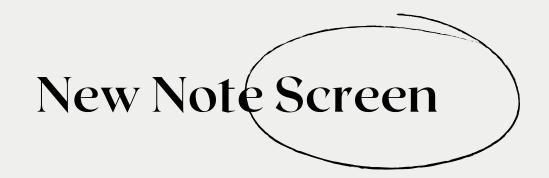
- Challenge: Encountering initial difficulty in moving back and forth between pages when starting the project
- Solution Filtering Issue: Searching documentation and video tutorials about components "NavigationContainer" and ""Drawer" to complete page transitions and pop up navigation bars

ISSUES AND OVERCOME
June 12, 2024

State Management for Labels in TrashScreen

- Challenge: Label Management Screen Filtering labels based on search input might not update correctly.
- Solution Filtering Issue: Ensure that the filteredLabels state updates correctly when search state changes. Modify the 'useEffect' hook to update filteredLabels based on the search state.

```
<Ionicons
   name="checkmark-circle"
   size={50}
   color={content ? "green" : "red"}
   style={{
     position: "absolute",
     bottom: 10,
     right: 10,
   onPress={() => {
     if (!content) {
       return;
     dispatch(
       addNote({
         content,
     setContent("");
     navigation.goBack();
</View>
```



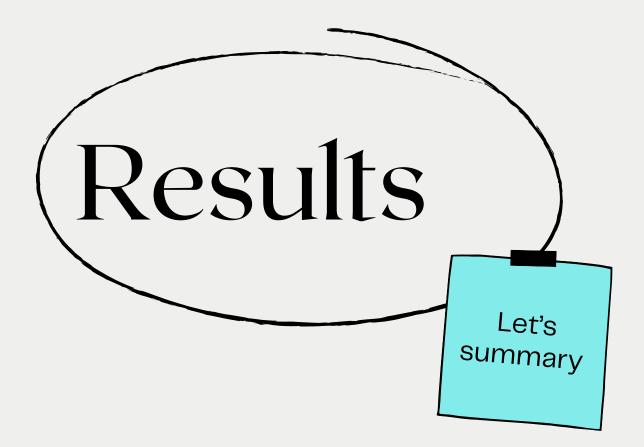
- Challenge: The checkmark icon ('Ionicons') color in 'NewNoteScreen' is not updating dynamically based on the 'content' input. It currently checks for content existence but does not change color when content is entered or deleted.
- Solution: Modify the 'Ionicons' component to dynamically update its color based on the 'content' state. This ensures visual feedback to the user regarding the validity of note creation.

Update the current notes when user is searching

Challenge: Handling add cases when user searching

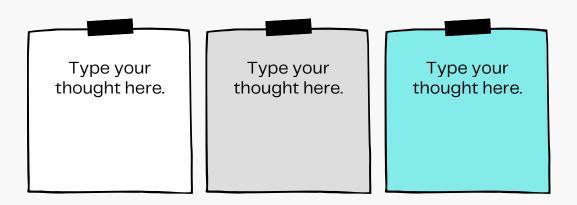
Solution: Modifying the 'status' arrow functions to handle those case: input string is empty, no matched results, only one result matched, more than one results





Achieved Results





- In summary, our team has successfully implemented the core functionalities required for this project. We have completed the essential features and delivered a working application.
- However, regarding the additional requirement of the Folder Screen, we have only managed to implement around 10% of it. Unfortunately, we were unable to complete the bonus of the Folder Screen within the given time frame.





Results June 15, 2024

