GitHub Username: charlyge

StartPack

Description

This App ensures that you don't forget anything you planned to travel with. Once your packlist is built, this app will save it for you and remind you atleast daily to pack all the items in your packlist.

The App also has a feature to get the direction of your intended destination from your current location
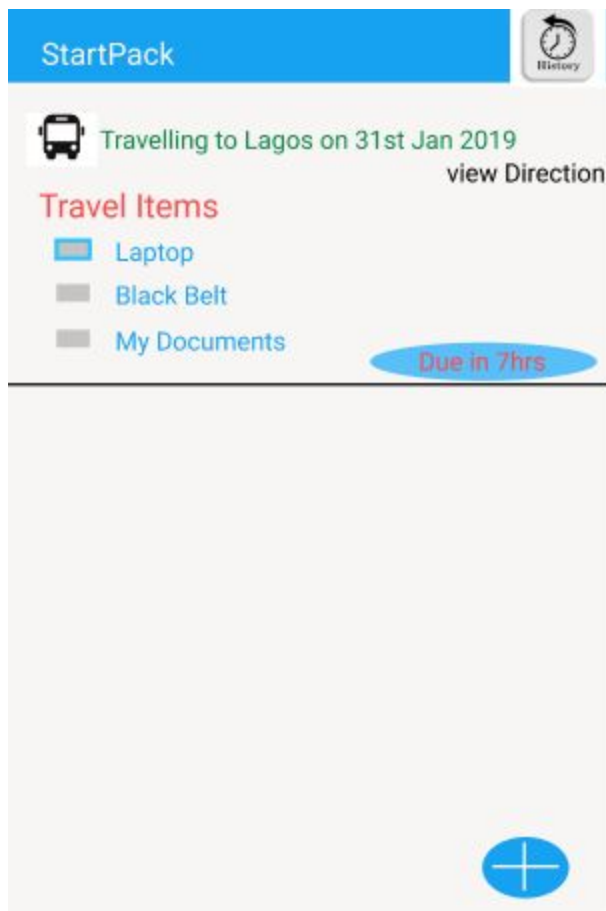
Intended User

This App is intended to be used by Travellers or those not really travelling to a far place but need to be reminded of the items they will needing when they finally get to their destination

Features

- Saves users packing list
- Schedules a reminder notification for the user
- Allows user to get the direction of their intended destination
- Allows users to mark off items they have parked
- Saves registered users packing list history to firebase database

User Interface Mocks

Screen 1

This is the mainActivity screen that displays the users Travel destination and intended travel items from here the user can launch the AddItems Activity Screen

Screen 2

This is the AddItemsActivity where the user Enters his travel destination,time,items to travel with etc.

Screen 3
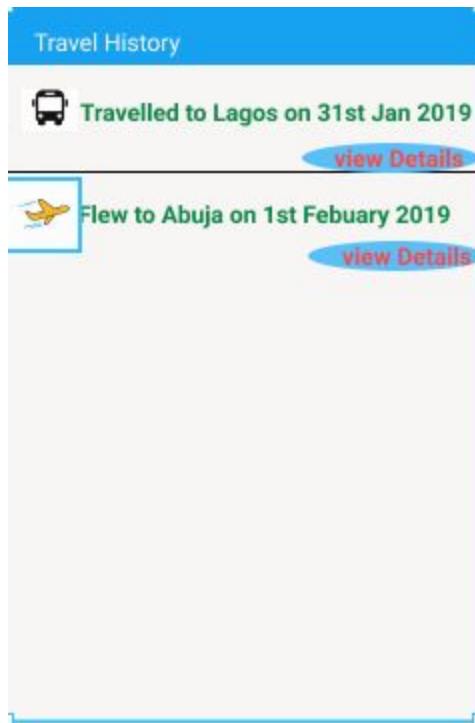
This is Travel History Activity which shows the user the list of places he has travelled to and clicking on view Details will show the items the user travelled with. This history is persisted to online firebase database

Key Considerations

How will your app handle data persistence?

This is app will persist data offline using Room Database and online using Firebase Cloud FireStore Database

Describe any edge or corner cases in the UX.

 The user will be shown an error toast message when he/she tries to schedule a packing reminder or save his entry without adding any item to the list

Describe any libraries you'll be using and share your reasoning for including them.

Firebase - for online data persistence
Timber - for easy and smart Logging

FirebaseJobdispatcher - for scheduling reminder notifications

Describe how you will implement Google Play Services or other external services.

Google places api will be used in this project to get the name and Address of the user selected destination from Google Map.

This Service will be implemented by going to Google Cloud Platform Console, Creating and registering the project there and Signing up for an Api key

Next Steps: Required Tasks

Task 1: Project Setup

You may want to list the subtasks. For example:
- Configure libraries (Add Room, Timbre)
- Register and set up project on Firebase
- Register and set up project on Google Cloud

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity(which displays travel pack list)
- Build UI for AddItemsActivity
- Build UI for TravelHistoryActivity

Task 3: Set up Room Database

- Create DAO, Entities and Database for the App
- Add AppExecutor to be used to handle querying off the main UI thread and DateConverter class to enable saving dates into the database

Task 4: Work on the AddItemsActivity

- Create the layout
- Add the feature of picking travel destination place the map

- Enable the add Item button to save items to Database

Task 5: Work on the MainActivity

- Creates an Adapter that will display the users Travel destination and travel items in a recycler view
- Schedules a Notification reminder for the user to pack his travel items
- Work on the feature to delete users Travel destination and travel items that has expired and saves it in database as Travel History from here it can be synced to firebase online database
- Add a feature for the user to open map and see direction to his/her destination

Task 6: Work on the TravelHistoryActivity

- Creates an Adapter that will display the users Travel history
- Add firebase Login to enable logged in users see their travel history

Task 7: Polishing the UI

- Starts polishing the UI and also adding material design to the App to have a nice look for the users