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LitMoments

Description

Capture, Relieve and Share your travel fantasies with LitMoments. LitMoments is your personal travel companion that allows you to:
- Easily pen down your travel thoughts and share them with friends and family whenever you want.
- Effortlessly capture photos, location, weather and relieve them at a time of your liking.
- Store your travel entries offline when you are not connected to the internet and sync once you are connected with the internet.
- Easily search and locate a particular travel entry.
- Personalize your User Interfaces with different colors and styles.

- Track you travel destinations,experiences and moments.

Intended User

LitMoments is for anyone who likes travelling and exploring differents places around the world.

Features

Main features:
- Create a new travel entry from your home screen.
- Capture or upload photos to your travel entry.
- Capture location, weather into your travel entry.
- Share your travel entries with family and friends.
- Capture your travel entries even when you are offline and sync when online.
- Search for a particular travel entry.
- Personalize user interface with different colors and styles.

User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Google Drawings, www.ninjamock.com, Paper by 53, Photoshop or Balsamiq.
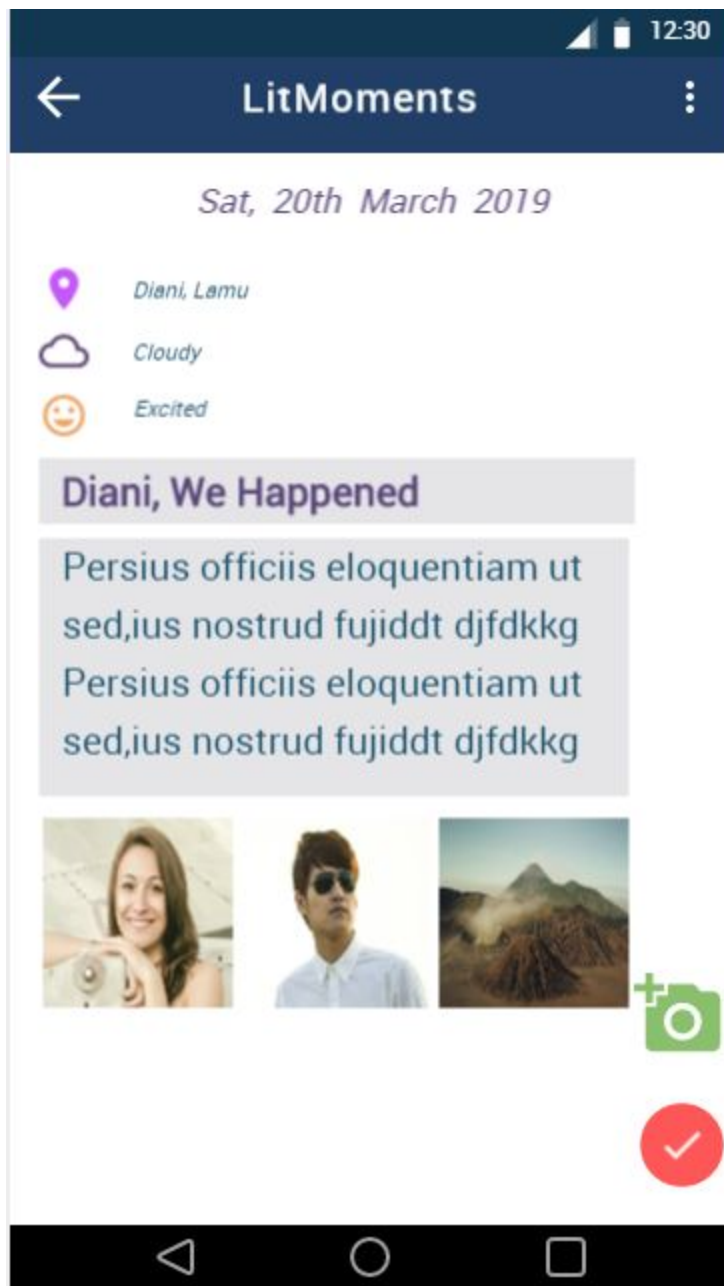
Screen 1
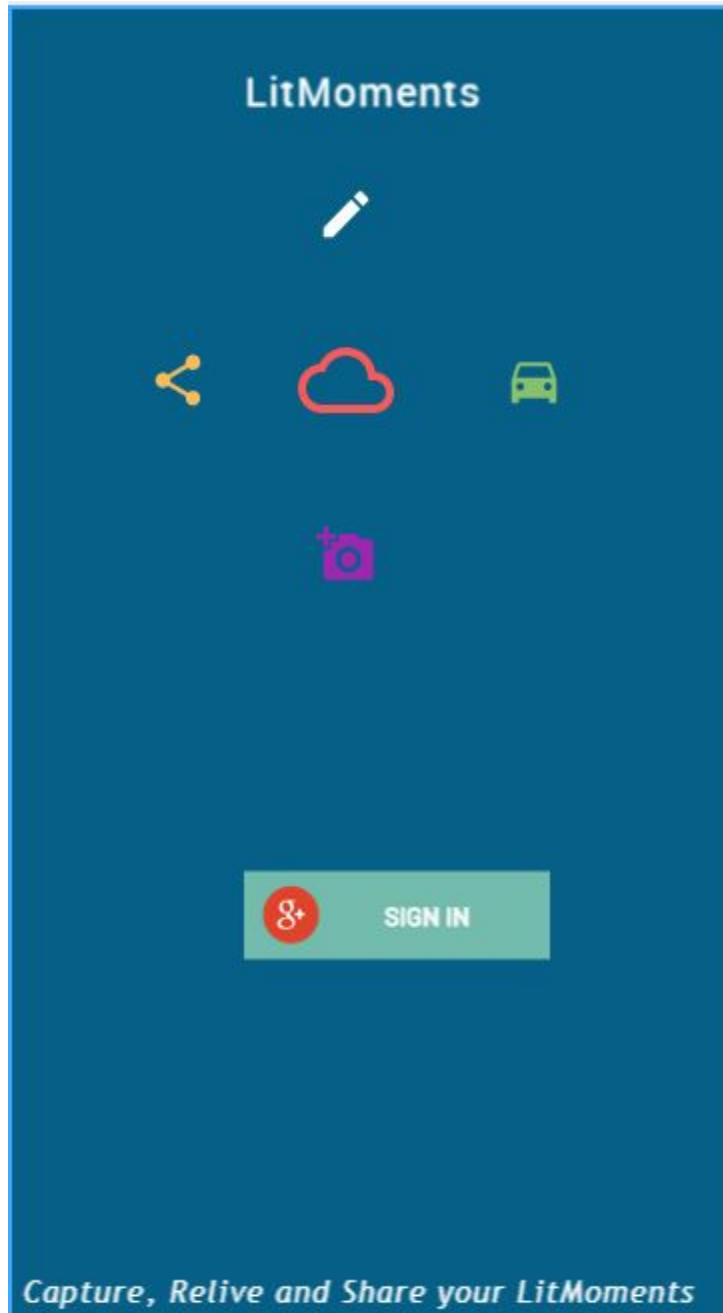
This is represents the login screen.

Screen 2

This is the home screen where the user will see their previous entries and users can add a new entry. Users can also search for particular entries.
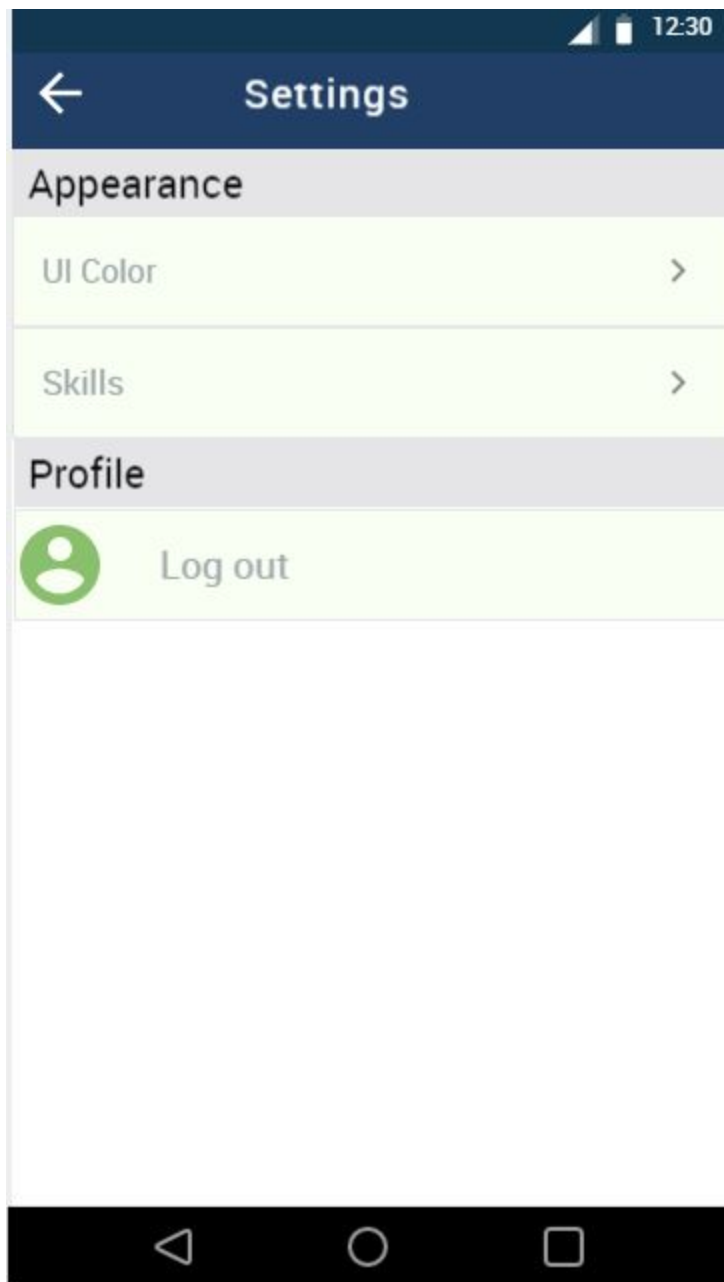
Screen 3

Users can use this screen to add/edit a travel entry.

Screen 4

When user clicks a photo from the add travel entry activity they can be able to view the full photo.
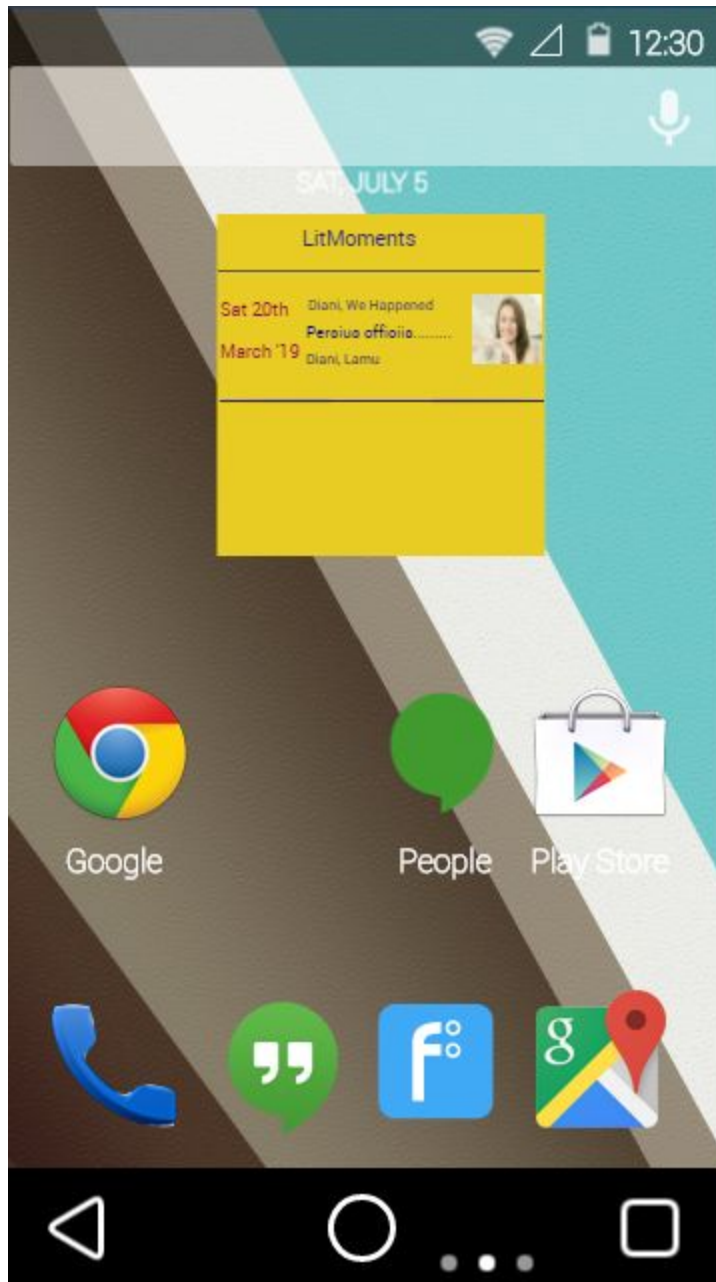
Screen 5

The settings activity allows a user to make changes to the UI of the application to suit their needs and to also logout from the application.

Screen 6
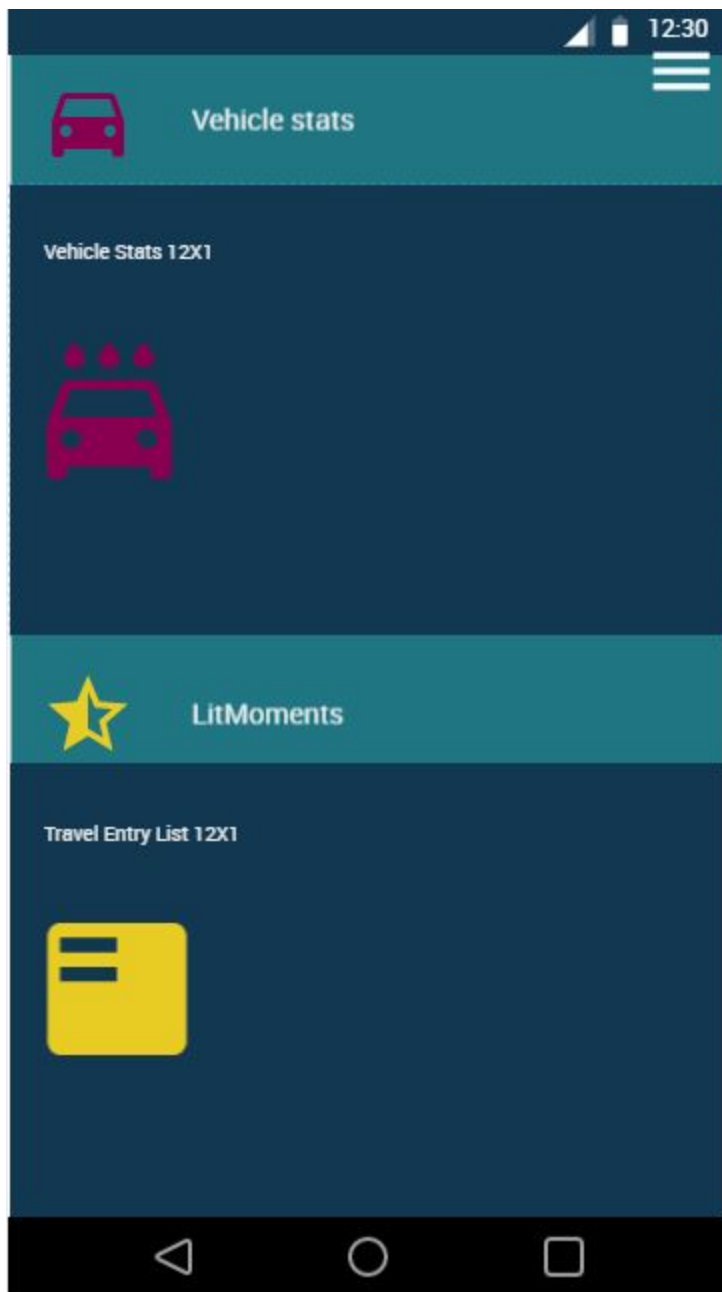
This screen displays LitMoments widget which contains a list of users travel entries which when clicked will take the user to the detailed screen for that particular entry..

Key Considerations

How will your app handle data persistence?

Litmoments will use firebase as it's database. Firebase provides the ability to persist data when you are offline and sync when you are online. With firebase, users are assured that there will be no loss of their travel entries even when they are offline.

Describe any edge or corner cases in the UX.

Litmoments will use Material Design toolbars, coordinator layout and Fabs to provide the user with unforgettable user experience while using the app. Incases where the user is not online, the application should continue working properly and save application data offline until when the user is back online.

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

Firebase for storing travel entries. This will be the app's database.
Glide to handle loading and caching of photos.
Butterknife for view injection.
Material Design library for providing a nice user interface to the user.
Google location services to provide user's current location.

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

Location : This app will google's location services to retrieve user's current location which will be shown on the travel entry. The user's location will form part of the travel entry and will be saved together the travel entry.

Firebase authentication and database : This app will use the firebase authentication library to authenticate the user and also the firebase database library to store the user's travel entries.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

Task 1: Project Setup

Lit Moments will be developed using Java language. The app keeps all strings in a strings.xml file and enables RTL layout switching on all layouts.

The app includes supports for accessibility by providing content descriptions that are easy to understand to the user and also there are navigation icons to allow the user to move between activities with ease. Navigating using the D-Pad up and down options allows the user to view the travel entries on the Main activity while the left and right options allows them to view the entries fully if some content is not clearly visible.

The app will utilize stable versions of all libraries, gradle and android studio as shown in the table below:

Library	Version
Firebase	16.0.8
Glide	4.9.0
Material Design	28.0.0
ButterKnife	10.1.0
Google Location Services	16.0.0
Gradle	4.4.0
Android Studio	3.1.2

Task 2: Implement UI for Each Activity and Fragment

1. Build UI for MainActivity with recyclerView and Progress bar
   - Use recyclerView to display user's travel entries.
   - The will be an add fab Icon which when clicked will allow the user to create a new travel entry.
   - A search icon will be on the toolbar to provide for search functionality with the app.
   - There will be a menu which provide the user with an option to access the settings activity or logout from the app.

2. Build UI for the add travel entry activity

- User will be able to pen down thoughts in a textview.
- I will use DateTime Picker to allow user to enter the travel entry date.
- I will implement a textview to allow the user to enter weather and title of the travel entry.
- I will use a fab to allow the user to save the travel entry.
- There will be photos icon which will allow user to capture or upload photos to the travel entry.

2. Build UI for the settings activity

- Create a logout option.
- Provide the user with an option to personalize the User interface with different colors.

Task 3: Create Async Tasks

Create an async task that the app will use to query data from the firebase database and return results which will be displayed on the main activity. This async task can be used when the user wants to search for a particular travel entry.

Task 4: Handle edge or corner cases.

- Provide a swipe left or right option on a travel entry on the Main activity to allow the user to delete an entry.
- Additionally provide a delete menu option in the add travel entry activity to allow user to delete the travel entry.
- Add a share option on the menu in the add travel activity to allow the user to share their travel experiences.

Task 5: Implement a Widget.

Create a widget that will display a list of the user's travel entries. When the user selects a particular entry they will be directed to details screen of that particular entry.

Task 6: Write UI Tests.

Create UI tests to automatically test the application UI. This UI tests will help in the verification process to see whether the application is functioning as intended and whether the user can navigate easily within the application.

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