

Description

Intended User

Features

User Interface Mocks

Screen 1

Screen 2

Key Considerations

How will your app handle data persistence?

Describe any corner cases in the UX.

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

Describe how you will implement Google Play Services.

Next Steps: Required Tasks

Task 1: Implement UI for Main & Detail Activity

Task 2: Implement Google Play Services

Task 3: API Call

Task 4: Content Provider

Task 5: Widget

Task 6: Signed APK

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Card Diary

Description

Card Diary is a simple and fun way to keep a diary. It is easy to quickly enter your thoughts and memories.

Problem:

In today's fast paced world, it is a hassle to keep a diary. More often than not, it is not knowing what to write aka writer's block.

Solution:

Instead of starting with a blank page, Card Diary will provide a set of pre-defined cards for each day. In each card, there will be a question to assist you to trigger your thinking process.

Intended User

Students, Travellers and Young professionals

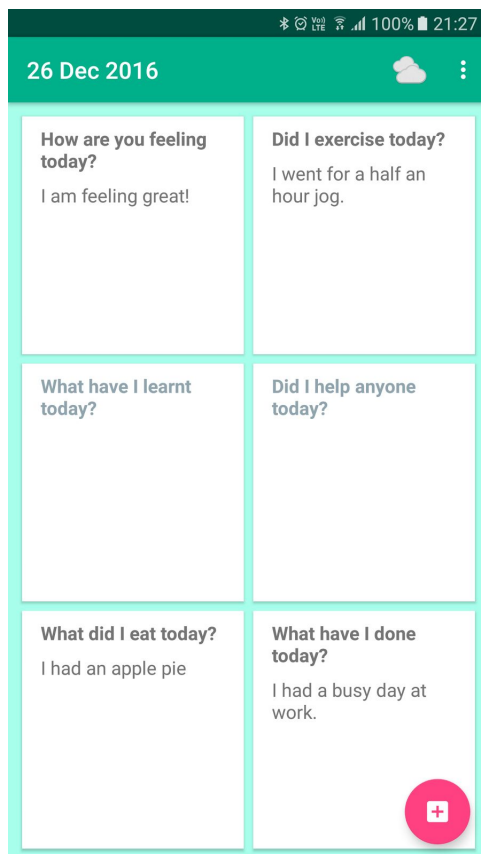
Features

- Cards displayed in a grid format
- Library of questions for writing inspiration
- Add/Remove cards
- Add/Remove questions
- Customise template of questions
- Display the weather for the day

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 Photoshop or Balsamiq.

Screen 1



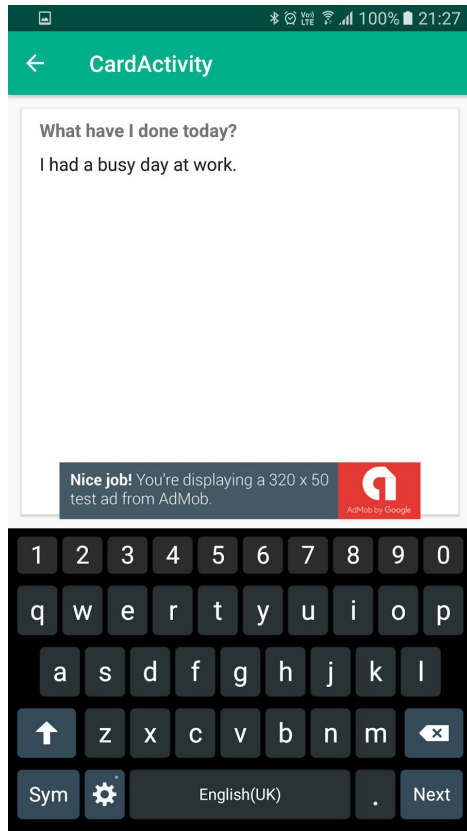
This is the launch activity which will display the list of questions for the day.

There will be a weather icon displayed at the option menu.

The floating action button allows user to add in more cards/questions.

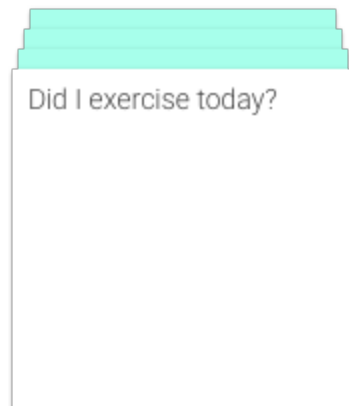
Upon clicking on any card, it will bring user to the detail activity where they can edit/add information.

Screen 2



This is the activity where user can add/edit their thoughts.

App Widget



Key Considerations

How will your app handle data persistence?

A SQLite Database with a Content Provider will be built to store the weather data. However, for the storage of daily diary entries, it will be done using Firebase.

Describe any corner cases in the UX.

A new card with a null or blank value is being added or saved by user.

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

OkHttp is a third-party library developed by Square for sending and receive HTTP-based network requests.

Describe how you will implement Google Play Services.

Google Mobile Ads - will be displayed at the detail activity
Google Locations - to get device's current location or last known location
Google Firebase - will be used to store the daily entries

Next Steps: Required Tasks

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

Task 1: Implement UI for Main & Detail Activity

- Build UI for Main Activity
 - RecyclerView
 - GridLayoutManager
- Build UI for Detail Activity
 - Create XML Layout
 - Start Intent on item tapped

Task 2: Implement Google Play Services

- Google Mobile Ads
 - Display in Detail Activity
- Google Firebase
 - Store diary's daily entries,
 - Connect to UI

Task 3: API Call

- Use AsyncTask to retrieve data from OpenWeatherMap API based on device's location
- Update UI to display the corresponding Weather Icon

Task 4: Content Provider

- Store weather data in SQLite database

Task 5: Widget

- Provide a stack view widget displaying today's cards

Task 6: Signed APK

- Generate a signed APK