

[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: Project Setup](#)

[Task 2: Implement Room Library](#)

[Task 3: Implement MPAndroidChart Library](#)

[Task 4: Allows user to add pictures](#)

[Task 5: Backup feature](#)

GitHub Username: [aldajo92](#)

NotesGraph

Description

This is an app designed to be able to save values, with notes and be able to graph it in a time series. Useful if you need to save values for your expenses or if you have a lost weight plan, this app can store your values and visualize it with graphs.

Intended User

This app is designed for people that want to save reports with specific values, could be money, weight, volume or any dimension that needs to store with a note, and visualize in general with a graph.

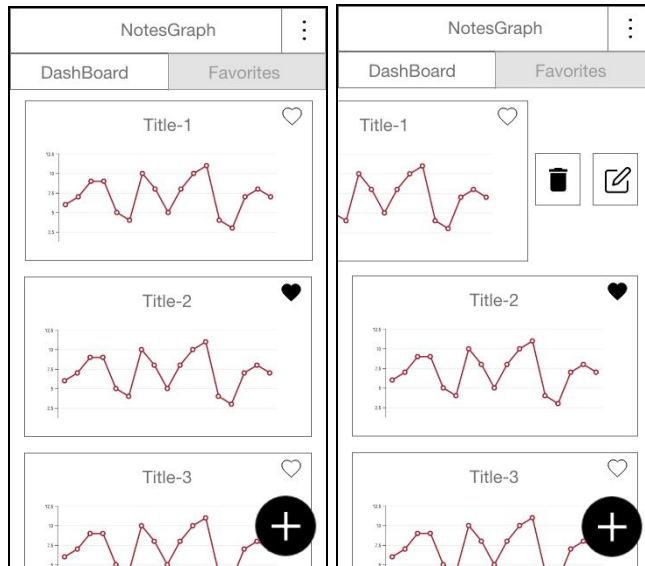
Features

- Save notes with values.
- Edit and delete information.

- Take screenshots to complete information.
- Visualize all values in a simple dashboard.
- Share content on social media.

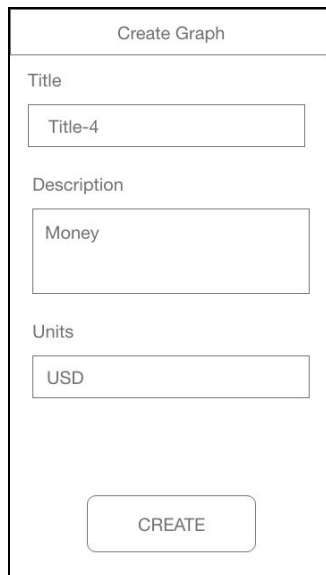
User Interface Mocks

Screen 1



This is the home screen to see all the dataset that the user has in the application represented by cards with the graph associated and the title. Users can mark as favorite each graph and can show it in the favorite section. The floating button allows for creating a new dataset. Swapping the card, shows hidden options to edit general information of the card and remove it.

Screen 2



A form titled "Create Graph" with three input fields and a "CREATE" button. The first field is labeled "Title" and contains "Title-4". The second field is labeled "Description" and contains "Money". The third field is labeled "Units" and contains "USD".

Field	Value
Title	Title-4
Description	Money
Units	USD

CREATE

This form shows what kind of information is required to create a new dataset.

Screen 3



This screen shows the detail information when the user selects a card, that allows interacting with the graph and lets to add and remove entries.

Screen 4

The image shows two side-by-side mobile app screens, both titled 'Title-1' with a three-dot menu icon in the top right corner.

Left Screen (View Mode):

- Date:** [23-06-2019]
- Position:** 2
- Value:** [23-06-2019]
- Note:** Gift to Mom
- Picture:** A square placeholder with the text 'Picture' inside.
- Bottom:** A 'REMOVE' button and a circular icon with a pencil and eraser.

Right Screen (Edit Mode):

- Date:** A text input field followed by a checkbox labeled 'Current Date'.
- Value:** A text input field.
- Note:** A large text area for input.
- Picture:** A square placeholder with a plus sign (+) inside.

Those screens show how to view, edit or create an entry.

Key Considerations

Data persistence:

Data persistence is implemented using Room Library, which stores each dataset with its corresponding id. Each dataset, have an array of each entry that has the date, note, and location of each image.

Corner case in the UX.

When a user creates a dataset or deletes all entries, a place holder should be placed to replace the missing data.

Libraries to include.

- MPAndroidChart (version 1.7.5): Library to manage each graph, including the option to interact with it with gestures and animations.
- Room (version 2.2.0): Library used to persist data in the application.

- Play Services Ads(version 10.0.1): Google play services library to have ads in application.

Google Play Services.

- Play Services Adds
- Google Drive for backup.

Required Tasks

Task 1: Project Setup

Setup the project, and include all the libraries.

- Create a splash screen
- Create the dashboard screen with mock data.
- Create cards and the detail screen to visualize the mock data.
- Include tests to validate functionality.

Task 2: Implement Room Library

Define each entry and data set as entities in Room.

- Create the Screen to include new datasets.
- Create the Screen to include new entries for each dataset.
- Add and remove behavior.

Task 3: Implement MPAndroidChart Library.

Create the Graphs based on each dataset.

- Add graphs to dashboard Screen and detail Screen.
- Edit feature for datasets and entries.

Task 4: Allows Users to add pictures.

Add the feature to allows Users to take pictures or upload images to complement information for each Entry in the dataset. This picture will show only in the detail Screen:

- Add or edit picture for each entry.

Task 5: Backup Feature.

Configure the app to allows backup.

- Create a backup and export to Drive.