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Personal Assistant

Description

This app helps the user to manage his life events and information into a single app without of need to remember everything. The app solves the problem of too much information and staff that the user will use in the future but needs to remember now. For example, who will pay next drink when you see you colleague every couple of months, important notes you would like to write or what is your trousers size number in each store as they intend to have different measurements.

Intended User

This app is intended for the regular everyday person

Features

List the main features of your app.

- Saves personal information
- Sync among multiple devices
- Protected by user credentials

Language

This project will be written in Java programming language.

Others

App keeps all strings in a **string.xml** file and enables **RTL** layout switching on all layouts.

App will include support for **accessibility** through content descriptions.

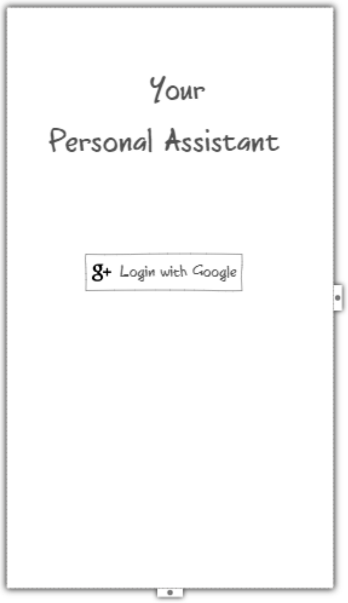
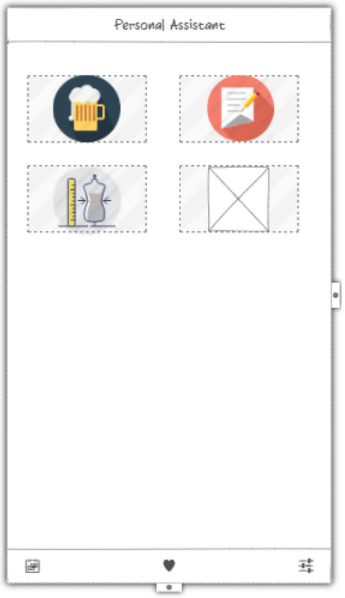
Intent service will be implemented for widget update.

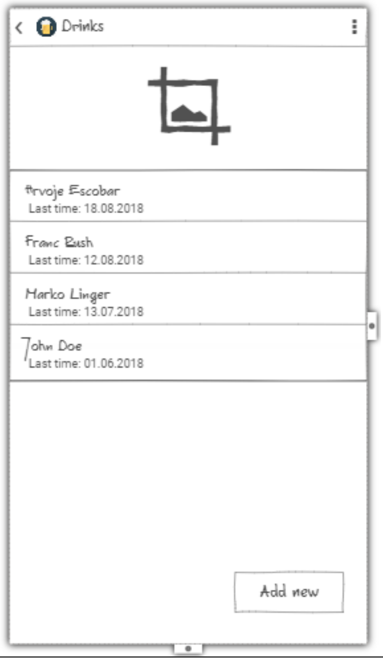
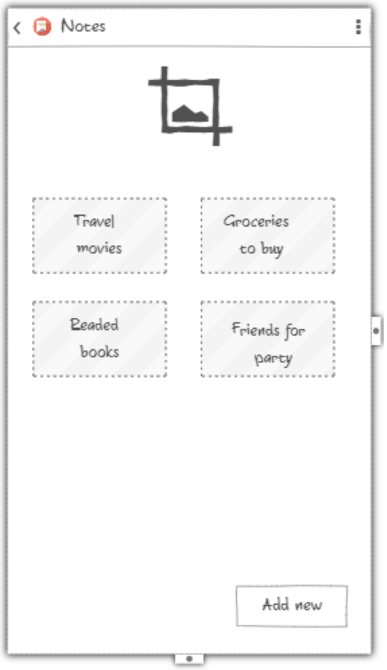
Versions

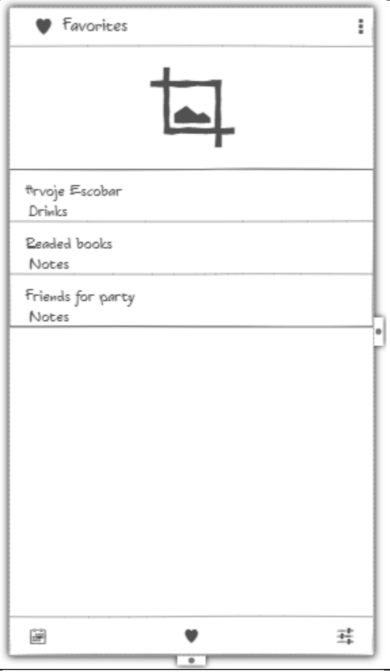
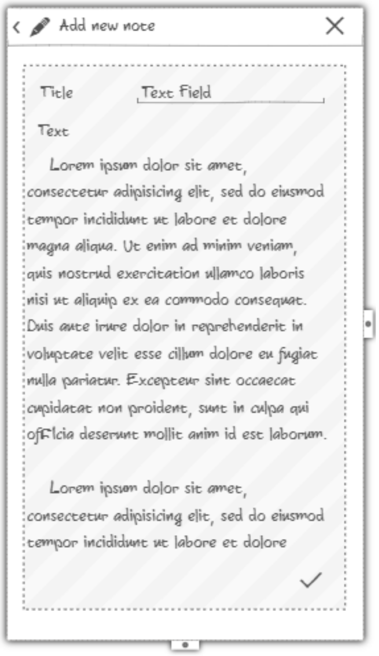
App will be developed using following versions:

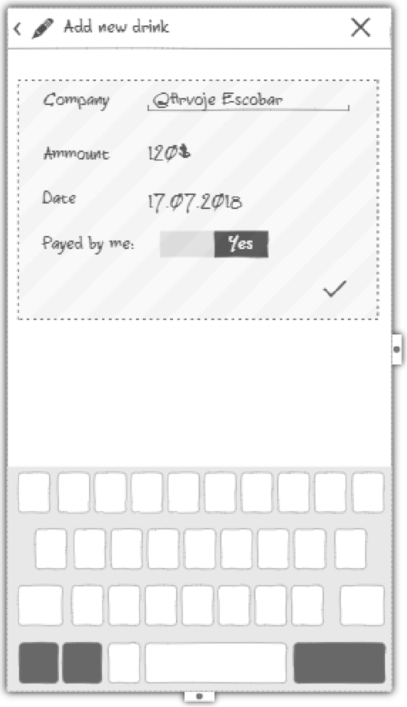
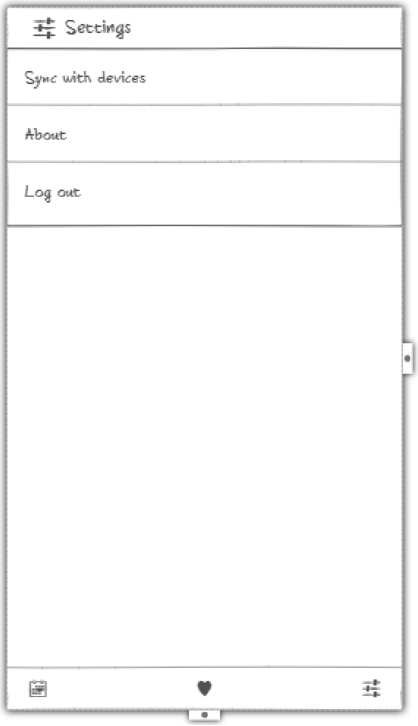
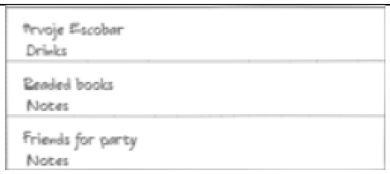
- Android Studio 3.1.3
- Support library versions: 27.1.1
- Gradle wrapper 4.5
- Gradle 3.1.4
- Constraint layout: 1.1.2
- Firebase Realtime Database: 16.0.1
- Firebase Auhentication: 16.0.3
- Firebase Crash Reporting: 16.0.1
- Glide: 4.8.0

User Interface Mocks

Screen name	UI	Description
Login screen		The user can log in into the app using Google credentials, so his data will remain saved. This enables syncing among different devices for the same user.
Home screen		The home screen shows the main categories for the user. Some of the categories are: • Drinks • Notes • Clothes

Drinks screen	 Drinks Hrvoje Escobar Last time: 18.08.2018 Franc Bush Last time: 12.08.2018 Marko Linger Last time: 13.07.2018 John Doe Last time: 01.06.2018 Add new	Drinks category show a list of people that user was with to the drink, He can see when was the last time they went together and click on a single item to see details
Notes screen	 Notes Travel movies Groceries to buy Readed books Friends for party Add new	Notes category shows card items of user-created notes. The user can write as many notes as he wants. Click on single card opens card details.

Favorites screen	 Favorites Hrvoje Escobar Drinks Readed books Notes Friends for party Notes	Favorite screen shows last viewed screens. App considered that user likes the most last viewed items and shows them in a list for easier access. App widget will also show the same data.
Add new note	 Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore	Note details enable the user to see details of the existing note and enable to change or delete the content. The user can also add new note through the details form.

Add new drink	 Add new drink Company Hrvoje Escobar Ammount 120$ Date 17.07.2018 Payed by me: Yes	Drink details enable the user to see details of the existing drink entry and enable to change or delete the content. The user can also add new drink entry through the details form.
Settings	 Settings Sync with devices About Log out	In settings the user can fetch fresh data from the server, see about of the application and log out. When a user logout all his app data are deleted from the device.
Widget	 Hrvoje Escobar Drinks Readed books Notes Friends for party Notes	Widget will show last opened items, so user can quickly open last viewed category with a click on an item.

Key Considerations

How will your app handle data persistence?

The app will save data in Firebase Realtime Database for easier synchronization with devices.

Describe any edge or corner cases in the UX.

The user will use bottom bar to navigate between major parts of the applications. On every major screen, he can perform some actions that will lead him to new activity window.

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

Firebase – for real-time database, authentication and crashes
Glide – for image loading and caching

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

I will use Firebase Realtime Database and Firebase Authentication

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

- Create an empty project.
- Configure librarires
- Enable signed build

Task 2: Implement UI for Each Activity and Fragment

- Build UI for LoginActivity
- Build UI for MainActivity
- Build UI for HomeFragment
- Build UI for FavoritesFragment
- Build UI for SettingsFragment
- Build UI for DrinksActivity category
- Build UI for DrinksActivity details
- Build UI for NotesActivity category
- Build UI for NotesActivity details

Task 3: Setup error handling

Setup Firebase Crash Reporting in the app so we can log user’s crashes and improve the app further.

Task 4: Setup Firebase Authentication

Setup login into the app using user credentials. Without user credentials, the user cannot enter the app.

Task 5: Setup Firebase Realtime Database

Enable saving the user data. When the user leaves the app, his data are persistent into Firebase database, so the user can continue on next login where he stops last time.

Task 6: Create Favorites widget

Create UI and functionality for the favorite widget.