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## My storage place

### Description

The application will store the data about items that we store in boxes in our storages like basements, wardrobes, garages etc

This app solve the problem of searching the whole basement and opening all the boxes to find one precious item.

### Intended User

For all people with basements, garages and attics. For everyone that want to keep order of their stuff

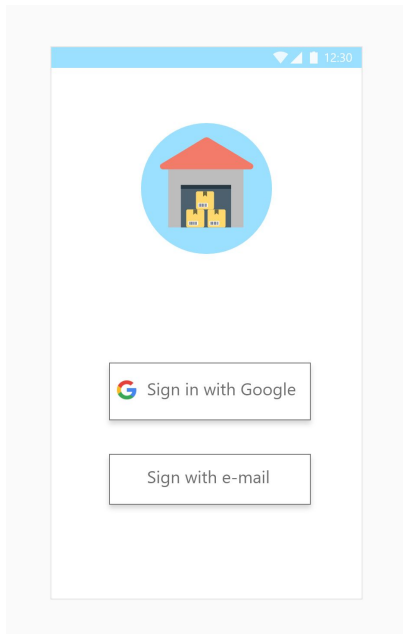
### Features

- Store the data in cloud
- Takes pictures

- Scan the QR code/number

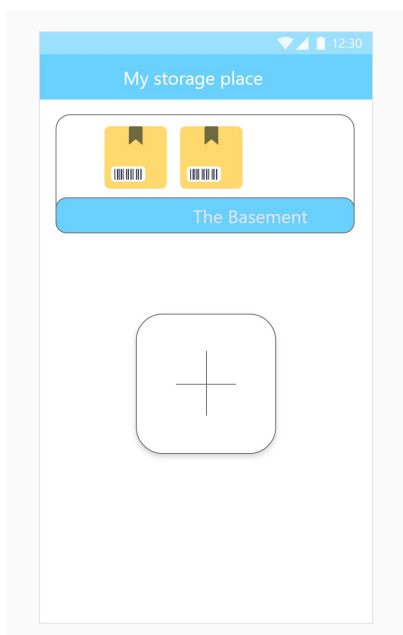
## User Interface Mocks

### Screen 1



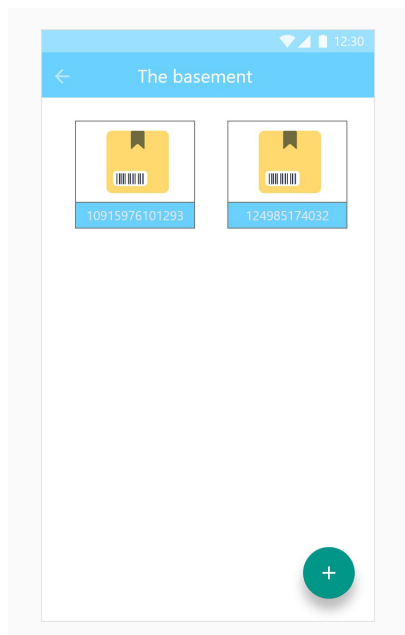
Sign-in screen with app logo and google sign-in button

### Screen 2



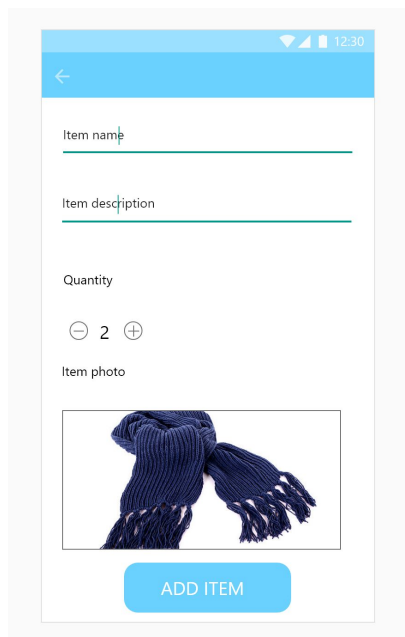
Main screen with list of places where user stores their boxes. Each listItem will have label and visual information about number of boxes included

## Screen 3



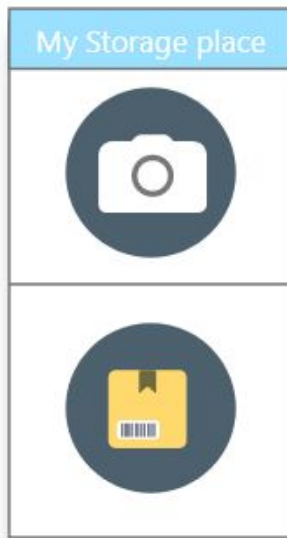
This detail view will present grid with all the boxes saved in user storage. There is a label with unique number on each box to identify it in the future. After clicking on the box the new screen will appear with list of items included in it.

## Screen 4



Add item screen that includes name label, description, quantity and image. After hitting the ADD button user will see the item in the list that includes every item in the box.

## Screen 5



App widget will contain 2 buttons. Camera and box. Camera will open the camera app to take photo of item and after acceptance user will be directed to Add item screen to put more details.

The package button will direct user to QR code scanner and after success the box view with items included will be presented

## Key Considerations

**How will your app handle data persistence?**

I plan to use Firebase Realtime Database

**Describe any edge or corner cases in the UX.**

User will have a possibility to add a new item to his predefined box using Floating Action Button. Additionally there will be possibility to take a picture of this item.

I would like to make a QR code/barcode scanner to make search of boxes easier in the real life.

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

- Picasso to handle to load the pictures and cache them
- Lifecycle to handle lifecycle-aware components
- DataBinding to bind xml data and ViewModel class
- RxJava to handle Asynchronous actions in application

- Google vision library to handle QR scan

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

Firestore analytics service to analyse the user experience

Google Play Services to integrate google sign-in

## 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

- App is written solely in the Java Programming Language
- App utilizes stable release versions of all libraries, Gradle, and Android Studio

### Task 2: Implement UI for Each Activity and Fragment

List the subtasks.

- Build UI for SplashScreen
- Build UI for sign-in screen
- Build UI for MainActivity
- Build UI for Add item screen
- Build UI for Add new box screen

### Task 3: Implement Firebase Database

- Implement firebase database to add/delete boxes/items
- make a service to retrieve informations after login

### Task 4: Implement logic for adding new item

- Make an adding new item/box possible in app
- Create layout for adding item
- handle all cases of no text input, no quantity input etc
- handle back button event, ask about saving item or close without saving

## Task 5: Introduce QR/barcode scanner

- Make scanning possible with use of google vision library
- check if scanned code is recognized
- make a qr code generator for each box in “my storage” app

## Task 6: create widget

- Create layout for widget
- Make intent to handle widget buttons clicks

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### Other informations:

- The app will be written solely in Java programming language
- It will use stable version of Android Studio(3.13) and gradle 3.1.3
- All used libraries will be used in stable versions
- Intent Service will be used and RxJava and LiveData Observers to handle Asynchronously
- The app supports accessibility by using material design guidelines
- App will support RTL layout switching
- All the strings will be putted in strings.xml file, themes in styles.xml, images in drawable resource package, icon in mipmap folder
- Back button will behave normally and wont be customized