

[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 UI for Each Activity and Fragment](#)

[Task 3: Your Next Task](#)

[Task 4: Your Next Task](#)

[Task 5: Your Next Task](#)

**GitHub Username:** Your GitHub username here

## Qr4All

### Description

Sometimes all of us have many things to sort it out. Where I is my favorite book? Whom I lend my game? When you are about to move to new flat you must keep in order plenty of boxes with valuables. Now everyone keep all thins things under control: print qrcode, stick it on a box and write any notes regards it.

### Intended User

It an application for all users, who have some chaos =).

### Features

- Saves information
- Scan QR code,
- Add location information to it
- Show description of selected item on main screen

- Sync data with a server

## User Interface Mocks

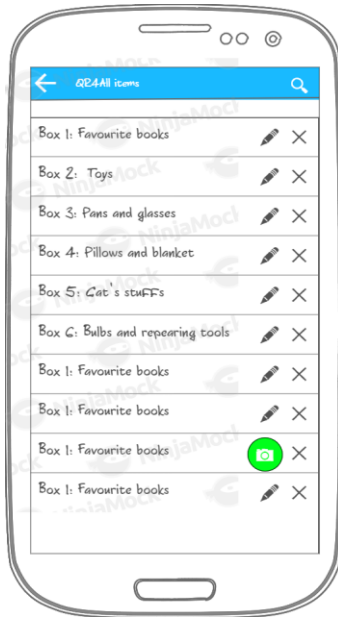
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Google Drawings, [www.ninjamock.com](http://www.ninjamock.com), Paper by 53, Photoshop or Balsamiq.

### Authorization



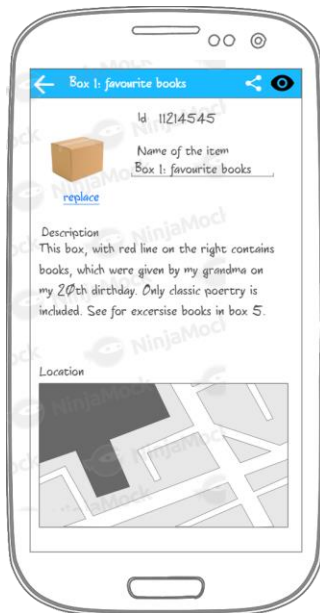
First screen of the app. You need sign in to be able to sync your data.

## List of items



This is a list of items with FAB “scan code” button. Buttons for search, edit and remove are also available.

## Item details



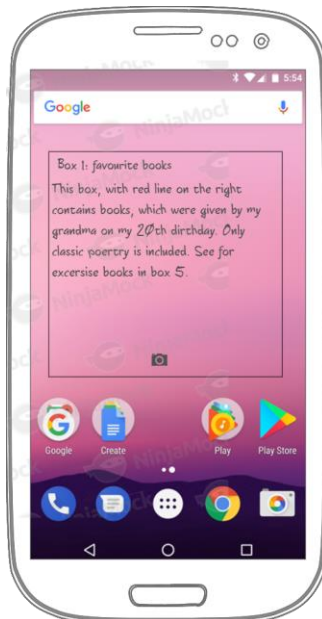
Item details view includes: fields to edit name and description of an item, you can upload photo, share a link on item with your friends, or show QR code.

## Show QR code



This is QR code of an item. I think background of this page should be black for better readability, but I have not found how to change background in ninjamock 😞/

## Widget



This is a widget with a button to scan QR code.

## Key Considerations

### How will your app handle data persistence?

I will implement Content Provider. All data will be stored on server, but a copy will be stored in local SQL database. Probable, I will use Room to access to this data.

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

The UX consider to be simple. I gave back button on all screen. There are two places, where user leave application though explicit intent: scan QR code and upload an image.

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

- Mobile Vision API for scan QR codes
- *Picasso* to show image of an item,
- *ButterKnife*

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

- Google analytics to collect data how people use an application
- Google maps to pick point and save location.

## 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 empty project. Configure gradle: install google and Picasso dependencies, create basic theme, colors, dimension

### Task 2: Implement Authorization

- Mark up and activity,
- Implement Saved Preferences(access token will be stored there),

- Create AsyncTask to authorization user,
- Add validation for incorrect email/password.
- Save token to shared preferences.

### Task 3: Implement List of items

- Mark up,
- Create RecyclerView and an adapter
- Implement Content provider to fetch items from the server,

### Task 4: Details activity and how QrCode

- Create basic layout
- Edit and store elements to the server through Content Provider,
- Fetch Qcode from the server and show it on separate activity.

### Task 5: Sync data with a server.

If there is no internet connection, data should be fetched from local DB.  
There I should add background sync with a server.

### Task 6: Widget

- Implement widget to show data on main screen.

### Task 5: Add analytics and maps library

Add location to Edit activity and analytics to the whole application.

Add as many tasks as you need to complete your app.

---