Shopping App

An app for online shopping

The Team

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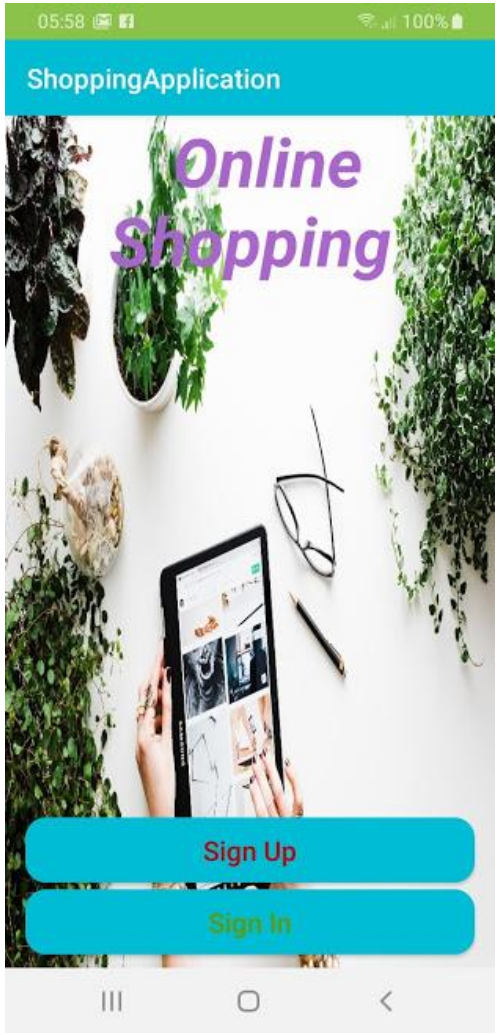
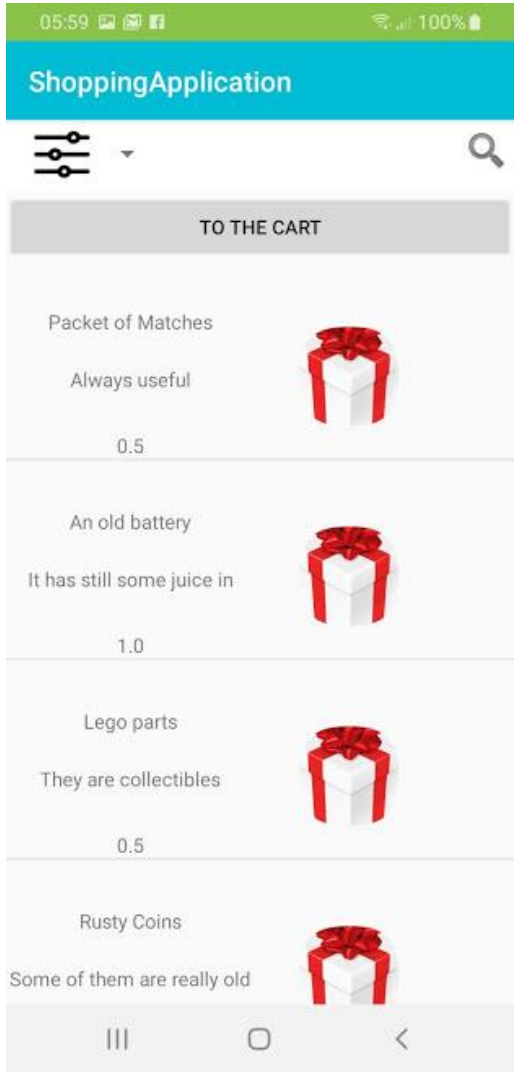
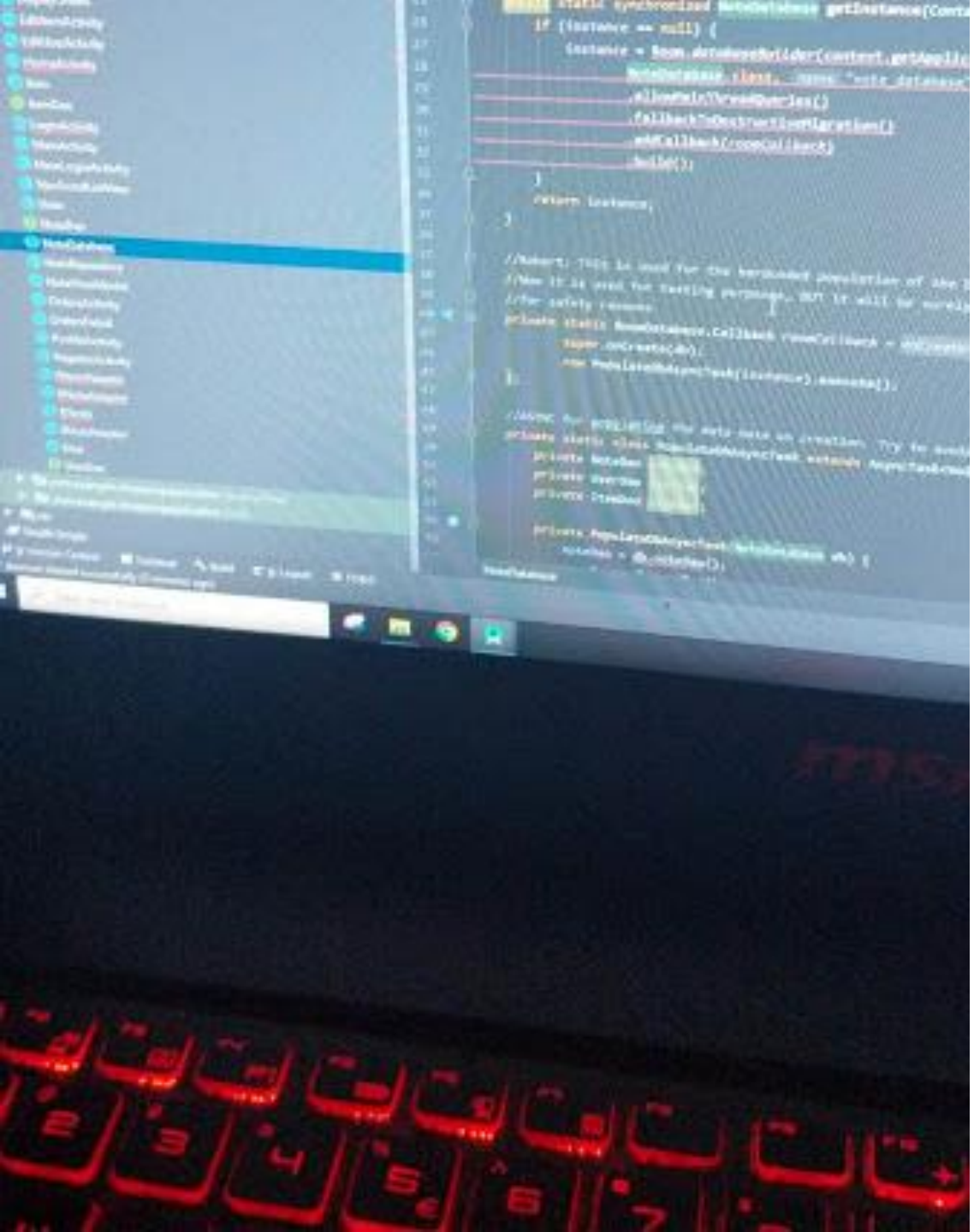




Shopping app

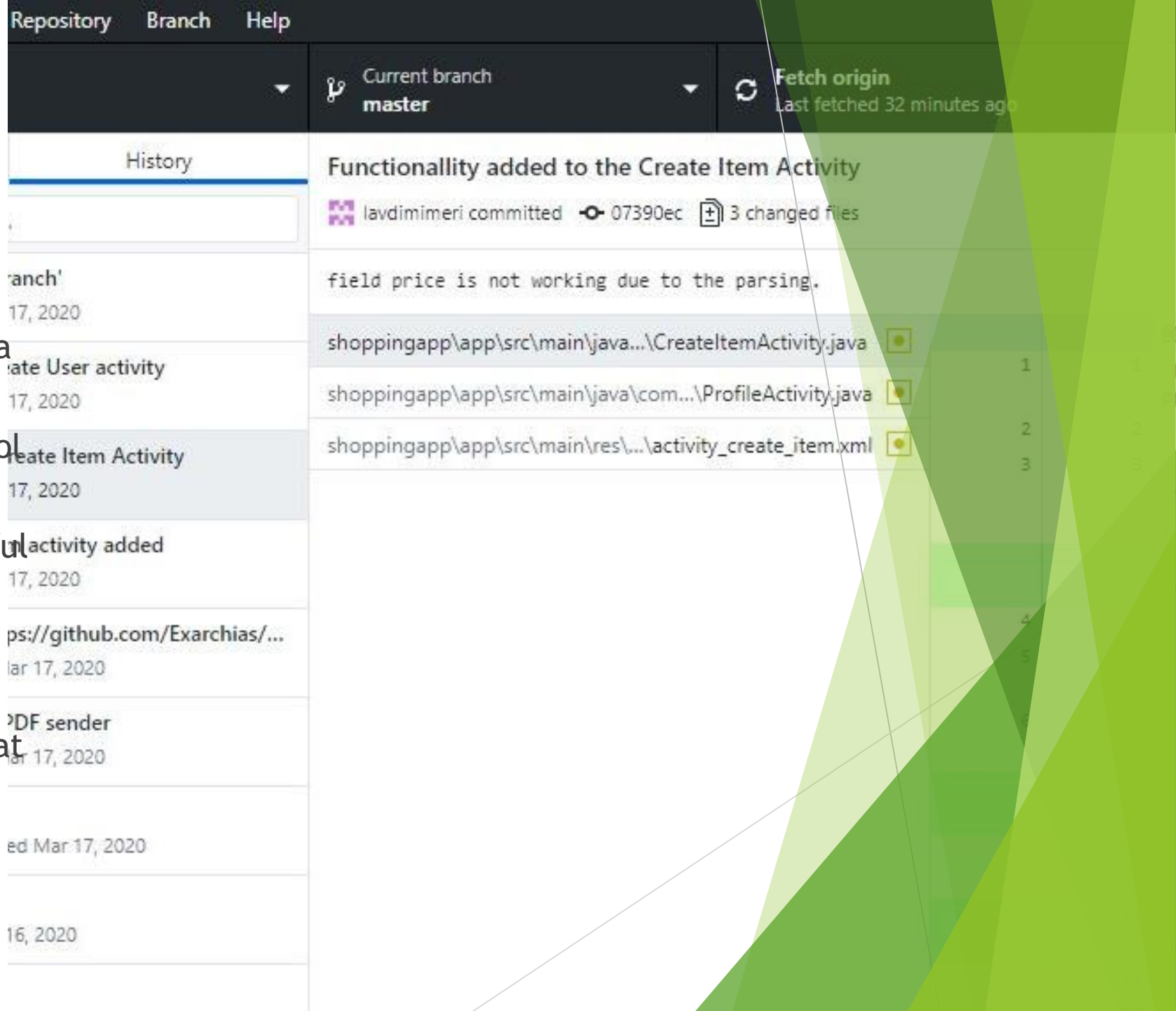
- As online shopping becomes more and more prominent, android developers around the world compete to create apps that can cover the needs of the buyer.
- Our focus was to create a simple and light app that will allow the user to make his purchases as quickly, easy and safely as possible



What could have been better?

Git and GitHub

- Avoiding conflicts it is always a struggle
- GitHub Desktop it is a good tool to use
- The use of branches was helpful to avoid conflicts
- Conflicts need patience to be solved correctly
- Git and GitHub are both a great fun!



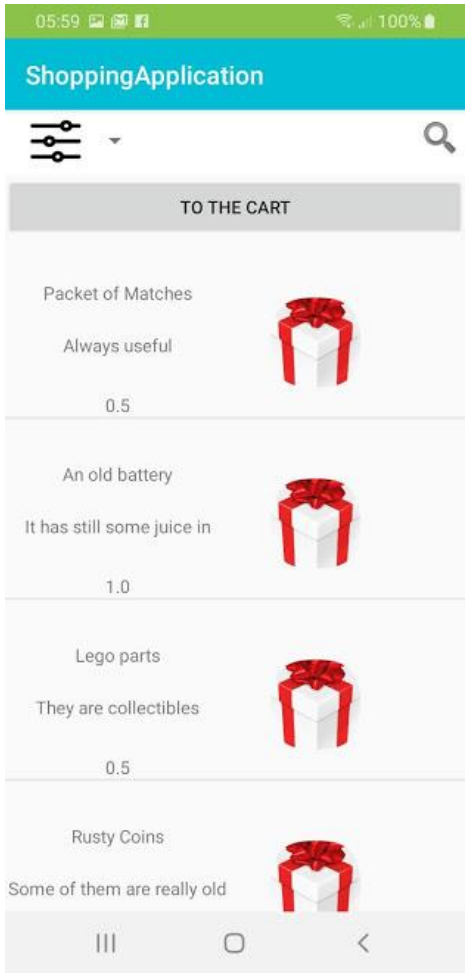
Future plans

- The Admin would be able to see everything from the user's perspective
- The Admin will be able to have an overview of the orders
- The app will be able to track the inventory and to inform users and admins about it
- Better Design
- More intuitive UX, (User Experience)
- Live Data
- Better Security

Meetings

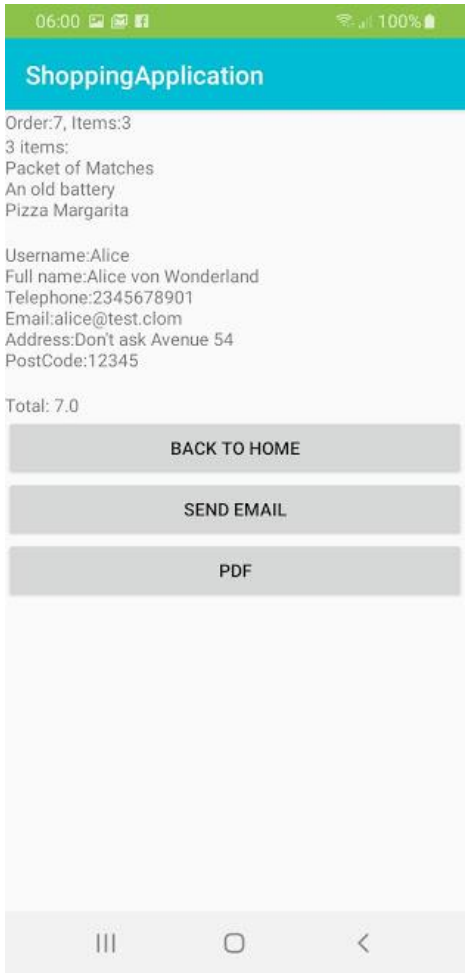
Login and Register

- The user can login, register, or reset their password
- Reset password verifies the user through SMS
- The passwords are stored encrypted in hash encryption
- For the login the telephone of the user is used and a password



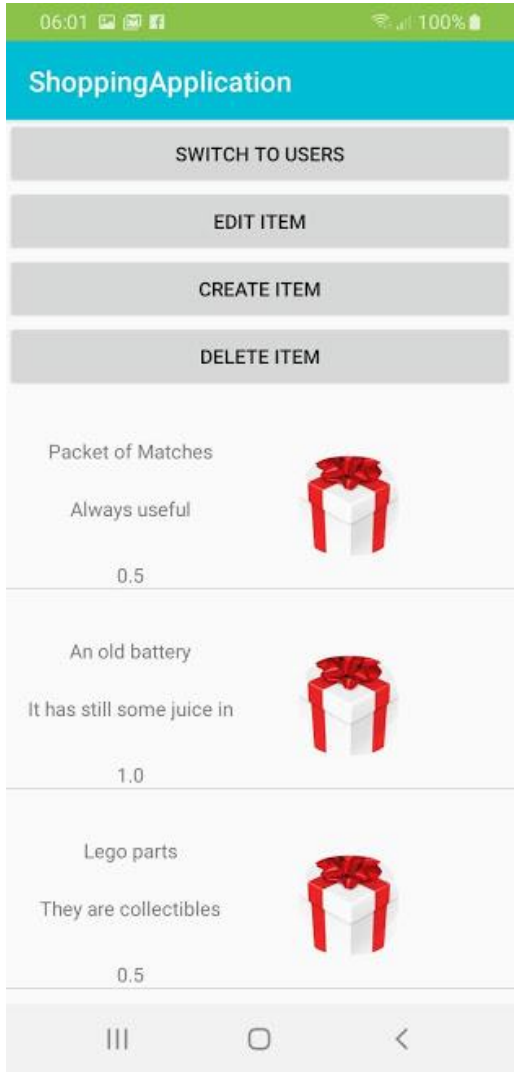
Dashboard

- Dashboard is the home page for the whole app
- A side bar offers access to the shopping card, to the purchase history, to settings and to logout button.
- All the items that the user can buy are displayed on the Dashboard. The user can select the easily and add them to the shopping cart
- When the user is admin, then she has access to the Admin panel



Shopping Cart and the Invoice

- The user can add any available item in his shopping cart where he can confirm the order
- If the user confirms a checkout, then the transaction is completed, and he gets to the display of the invoice of the order
- When in the invoice page, the user has the option to have an email with the invoice or a pdf

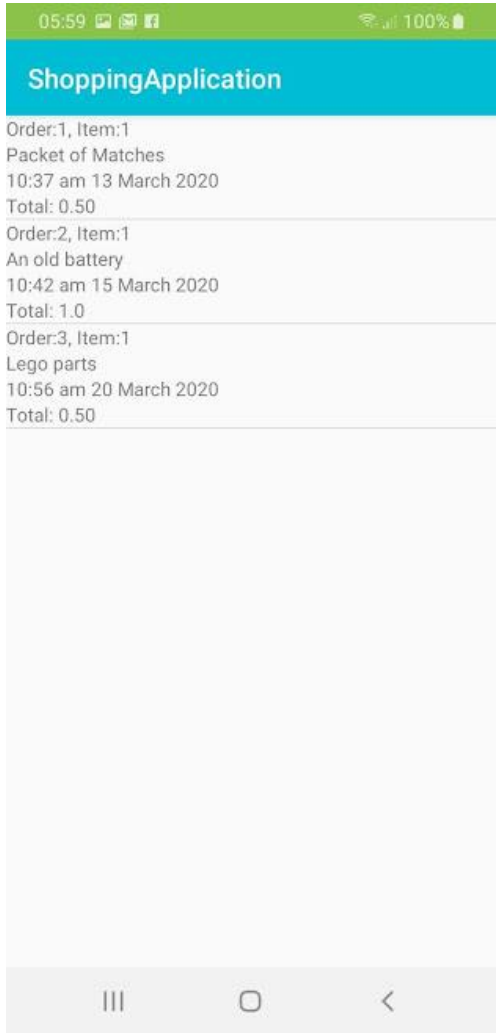


The Admin Panel

- The admin can easily overview the available items and the registered users
- The design is very intuitive and allows the admin to work easily
- The admin can create, edit and delete both items and users

Purchase History

- The user can see the history of his activity and his orders at any time through the “Display Orders” panel which displays the orders
- Each order has a title and a detailed description and displays the sum and the time of each order

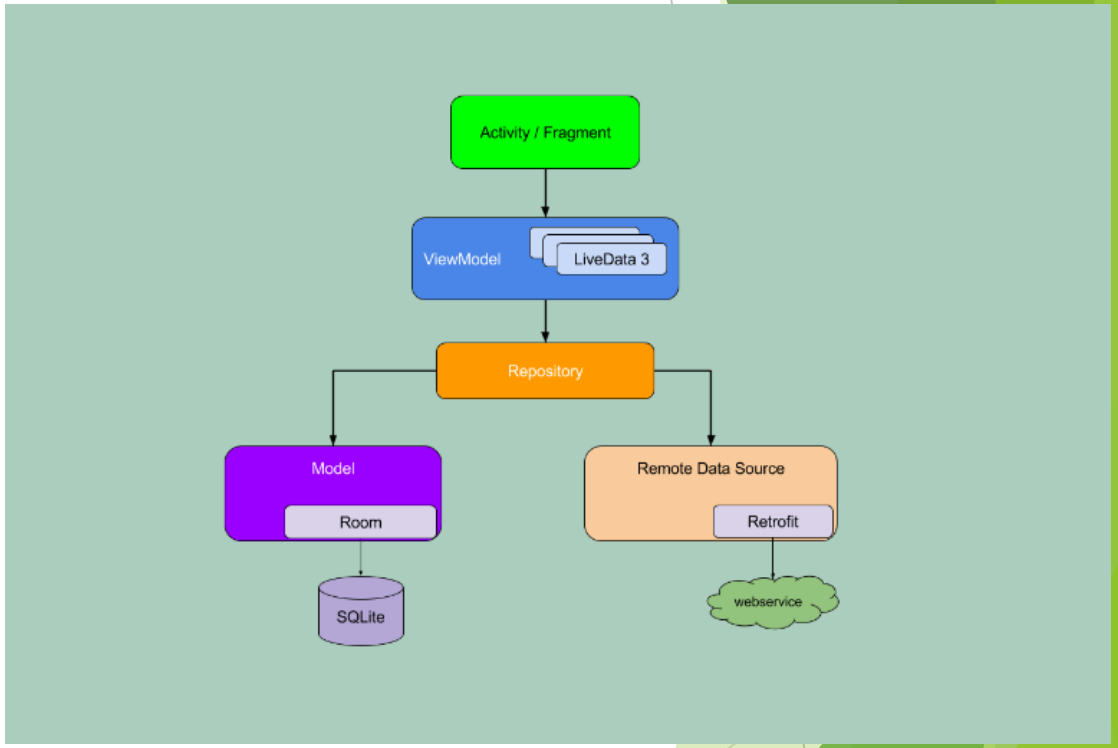


Architecture

- The main idea is that any input and output is taken cared in the same way
- We achieve that by having a translator in the middle which is translating the Data to OOP and the OOP to Data.
- A central IO management reduces bugs and redundancy
- The project supports both MVVM and MVC architectures
- We didn’t used Live Data to our displays, but it is supported, (probably for future use)

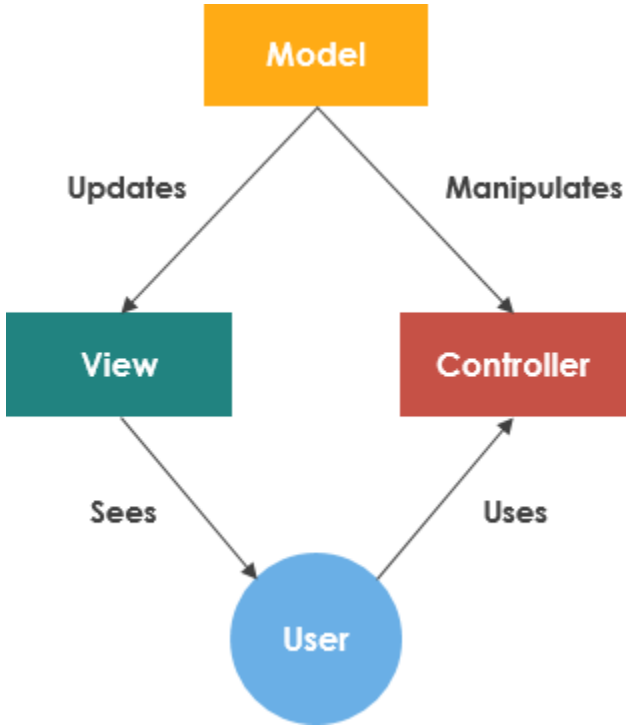
Model View ViewModel

- Part of the android architecture components
- The future of android development
- Great for the 90% of the Android applications out there
- It locks the developers inside the box, as it doesn't allow any creativity outside its narrow limits.
- It has few great tricks like Rooms and LiveData



Model View Controller

- It works well for us
- It becomes a legacy for Android systems
- More freedom
- Not good for Architecture Components
- More popular outside the Android community
- Reminds JavaFX

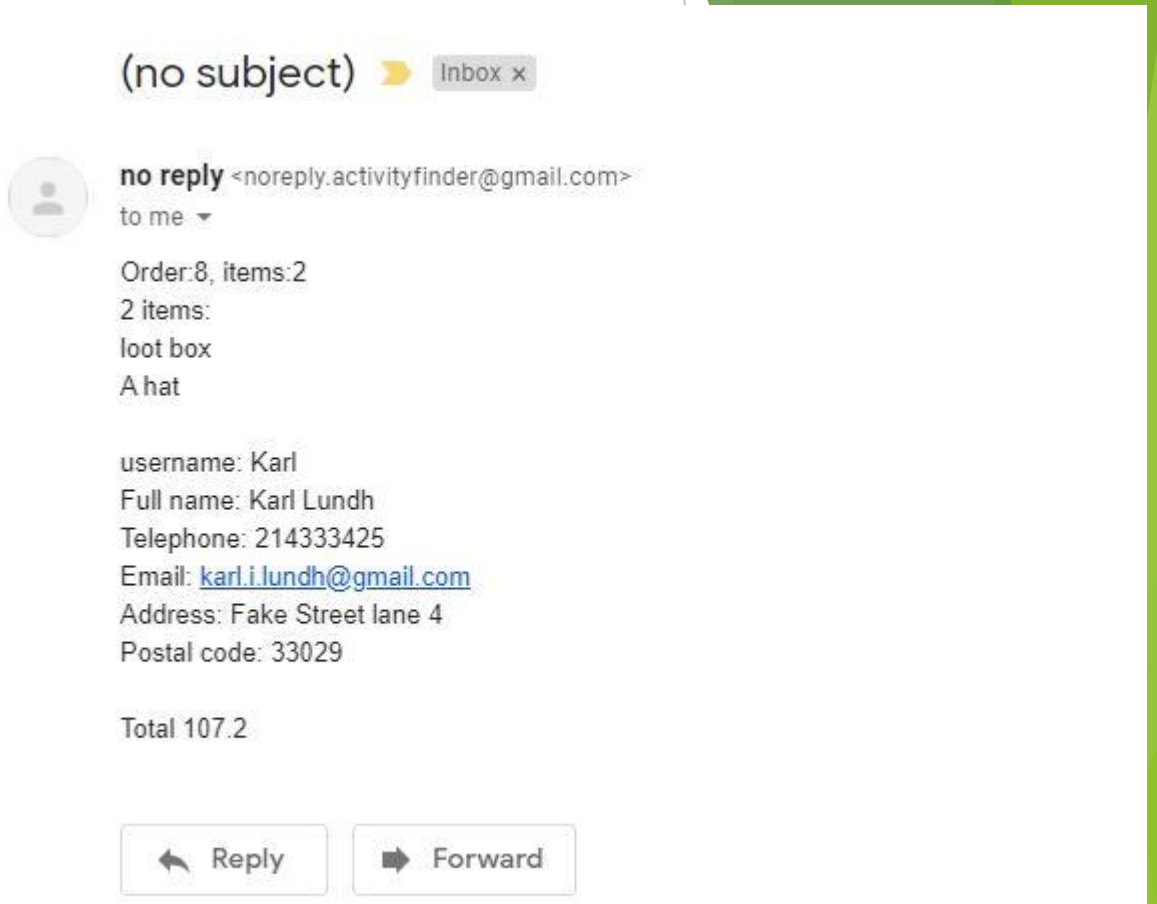


Data Bases

- A good reason for stress
- Having to access the Databases directly reduces flexibility and scalability
- We implemented a system that takes care any possible, (preferably relational), Data Base that might get connected to the app
- Right Now we are working with SQLite, (through Rooms), and MySQL There is a good possibility to use NoSQL Databases in the future.

Other Inputs/Outputs

- The app can send email through GmailSender
- The app can SMS messages
- The app can extract the invoice as PDF
- The app in the future will probably use Google maps and google calendars



We thank you for your time!

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