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StudyPad - Android Client

Introduction

- ▶ Mobile applications completely changed our way of living
- ▶ Educational applications are on the most popular on both mobile platforms (iOS and Android)



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StudyPad Service

- ▶ Note-taking service combined with social features
- ▶ Study, Share and Discover study materials
- ▶ Collaboration



Motivation

- ▶ Build a tool that will be useful for students
- ▶ Practice software development processes on the big and scalable project
- ▶ Apply advanced practices and techniques of Android Development.

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Goals

- ▶ Analyse the existing solutions
- ▶ Analyse the functional and non-functional requirements
- ▶ Design & Implementation
- ▶ Test the resulted solution

Existing solutions

- ▶ StudyBlue
- ▶ Quizlet
- ▶ Cram
- ▶ TinyCards

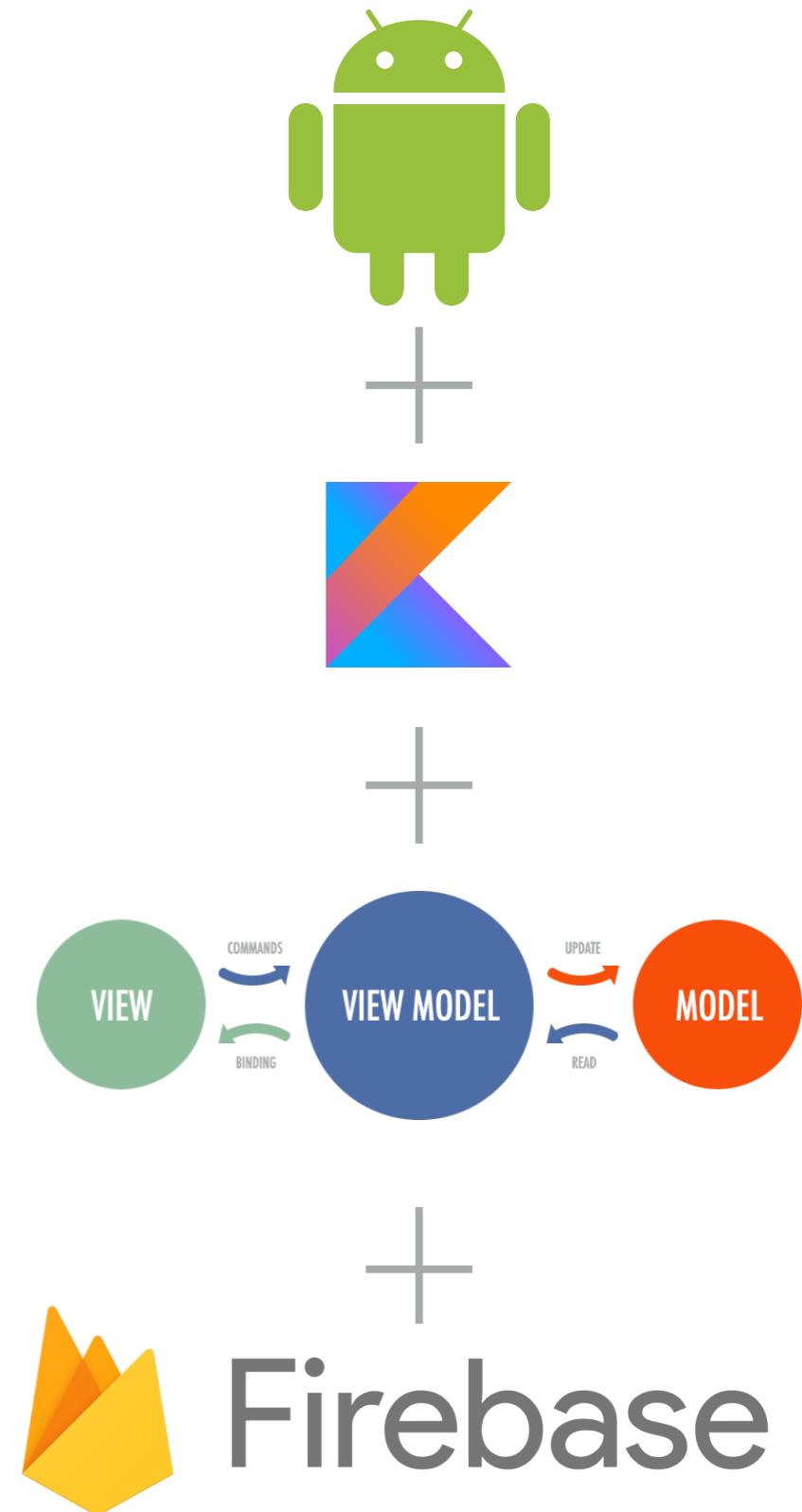
Service Overview

- ▶ Classic Client-Server Architecture
- ▶ Born in FIT, CTU
- ▶ StudyPad API
- ▶ Android Client



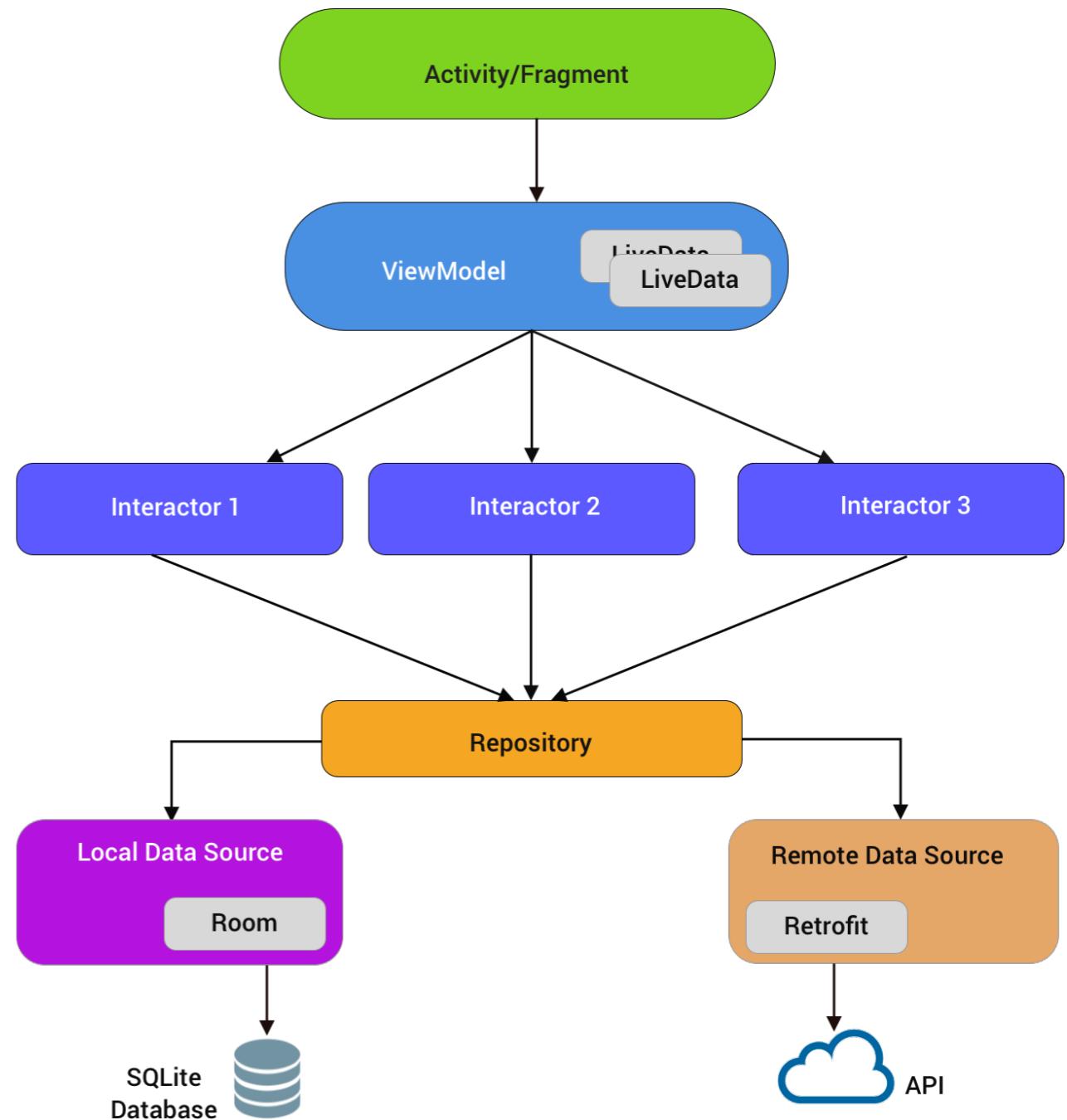
Core Technologies

- ▶ Native Android Application
- ▶ Kotlin as a primary programming language
- ▶ Clean Architecture using MVVM pattern
- ▶ Firebase Services



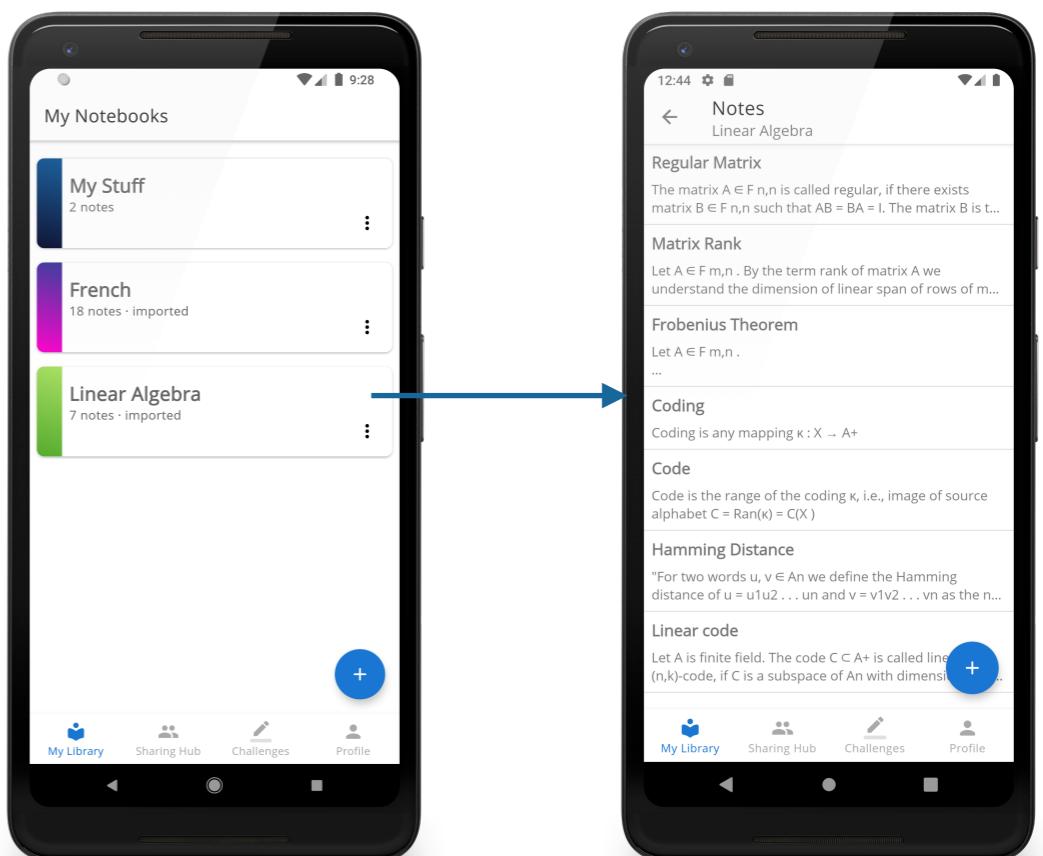
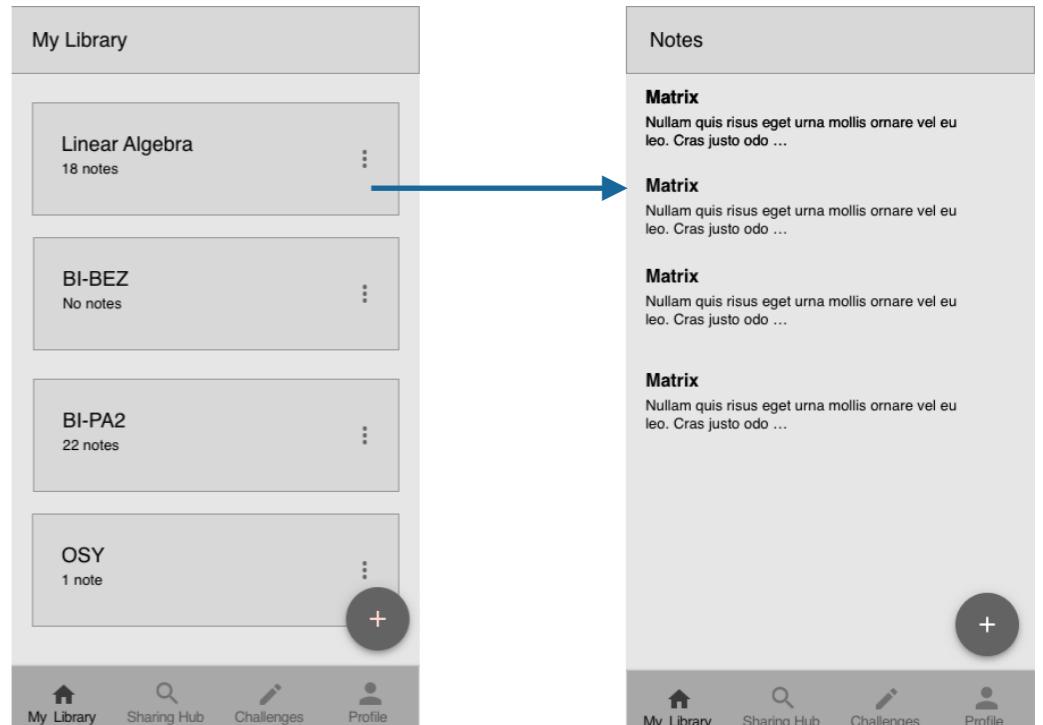
Design & Implementation

- ▶ ViewModel as ViewModel
- ▶ Activity/Fragments as View
- ▶ Repository Pattern as Model



Design & Implementation

- ▶ Mobile First approach
- ▶ Material Design V2
- ▶ Wireframes of the key screens and flows.



Testing

- ▶ Beta-test in Google Play Store
- ▶ Identifying and Resolving bugs using Crash reporting services
- ▶ Usability Testing

Conclusion

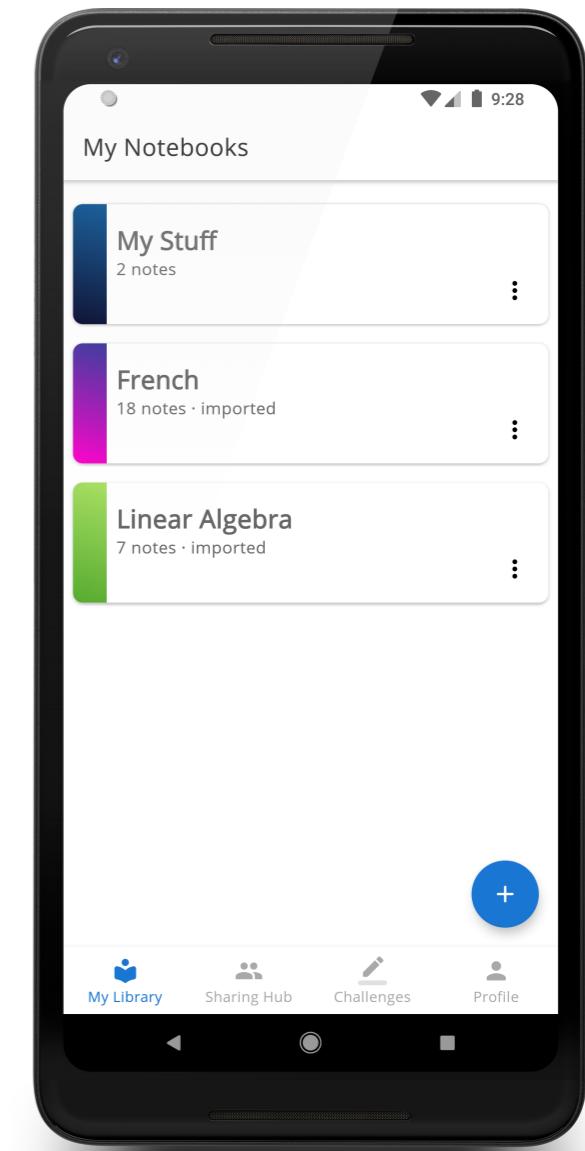
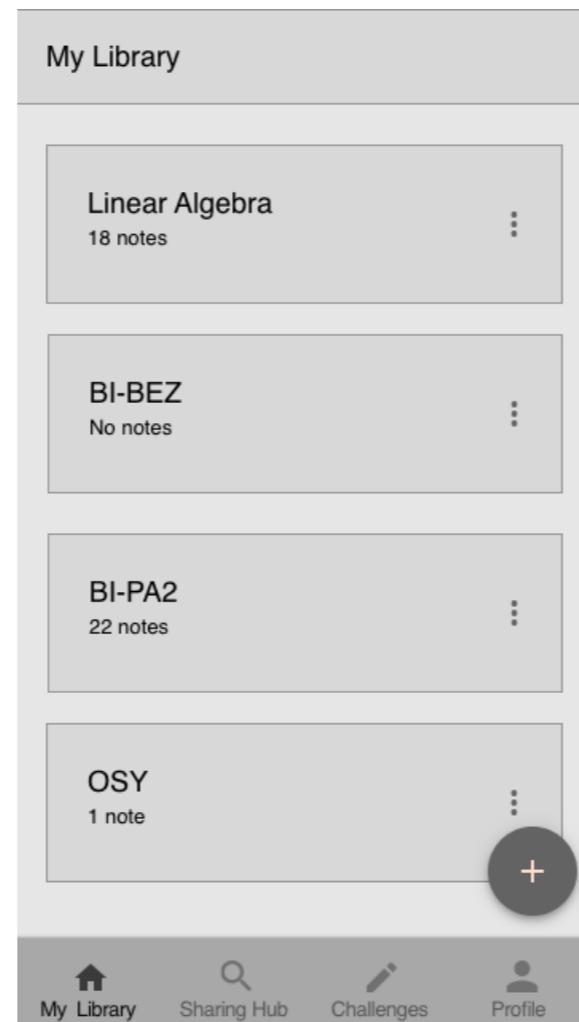
- ▶ All requirements established were implemented
- ▶ Release to the Google Play Store
- ▶ Test's results
- ▶ Future development



Jak jste zabezpečil kvalitu kódu oproti chybám?

- ▶ Manual use-case driven tests during the development
- ▶ Firebase Crashalytics

Jak vznikly wireframy aplikace?



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