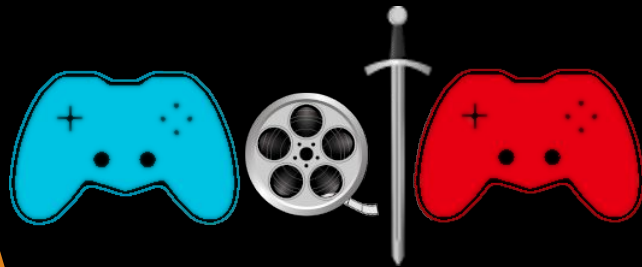


Media of The Millenium



MOTM



the office



Product Intro/How we came up with the idea

- Someone shared a review app they had specifically for movies
- Wanted to expand off of that

- Our app provides a much wider variety of content in terms of categories
- Wished to create a sense of community

Team Introduction

The Developers of the Millenium team

Adrian

Gurashish

Brandon

Hamza

Eric

Will

Geoffrey

Highlights

- GitHub and task branching
- Jira for sprints and tasks
- Discord for communication
- Team support; open to help



Difficulties

- Poor decision making
- Working with Android Studio
- HTTPS

What we did that helped us during the process

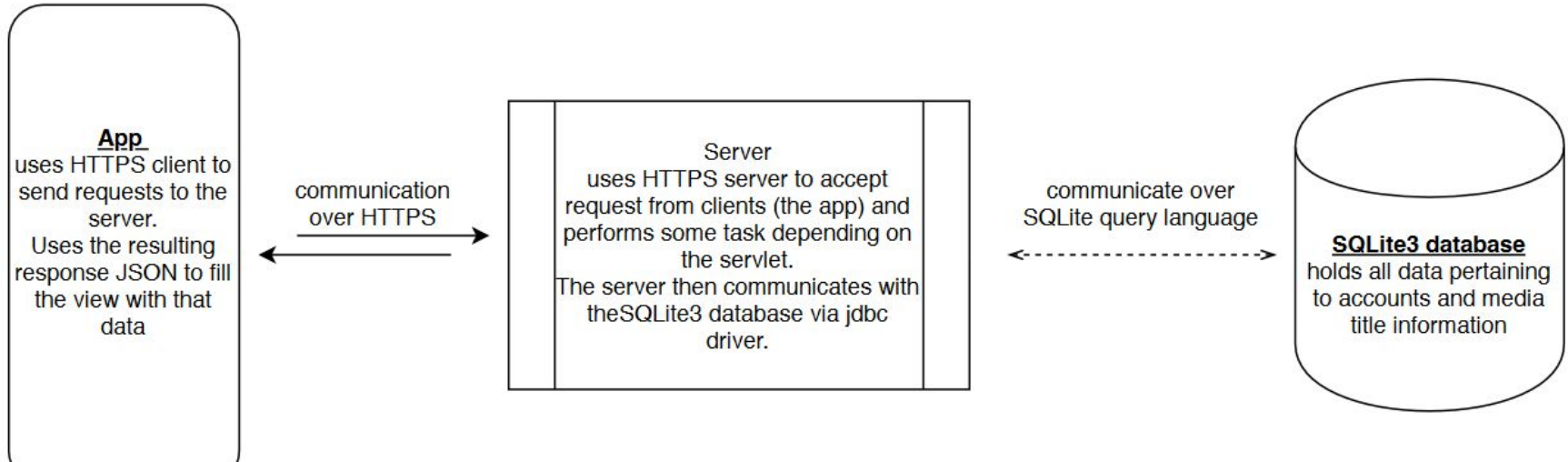
- Coding templates
- Database function organization
- Documentation

App, Server, Database

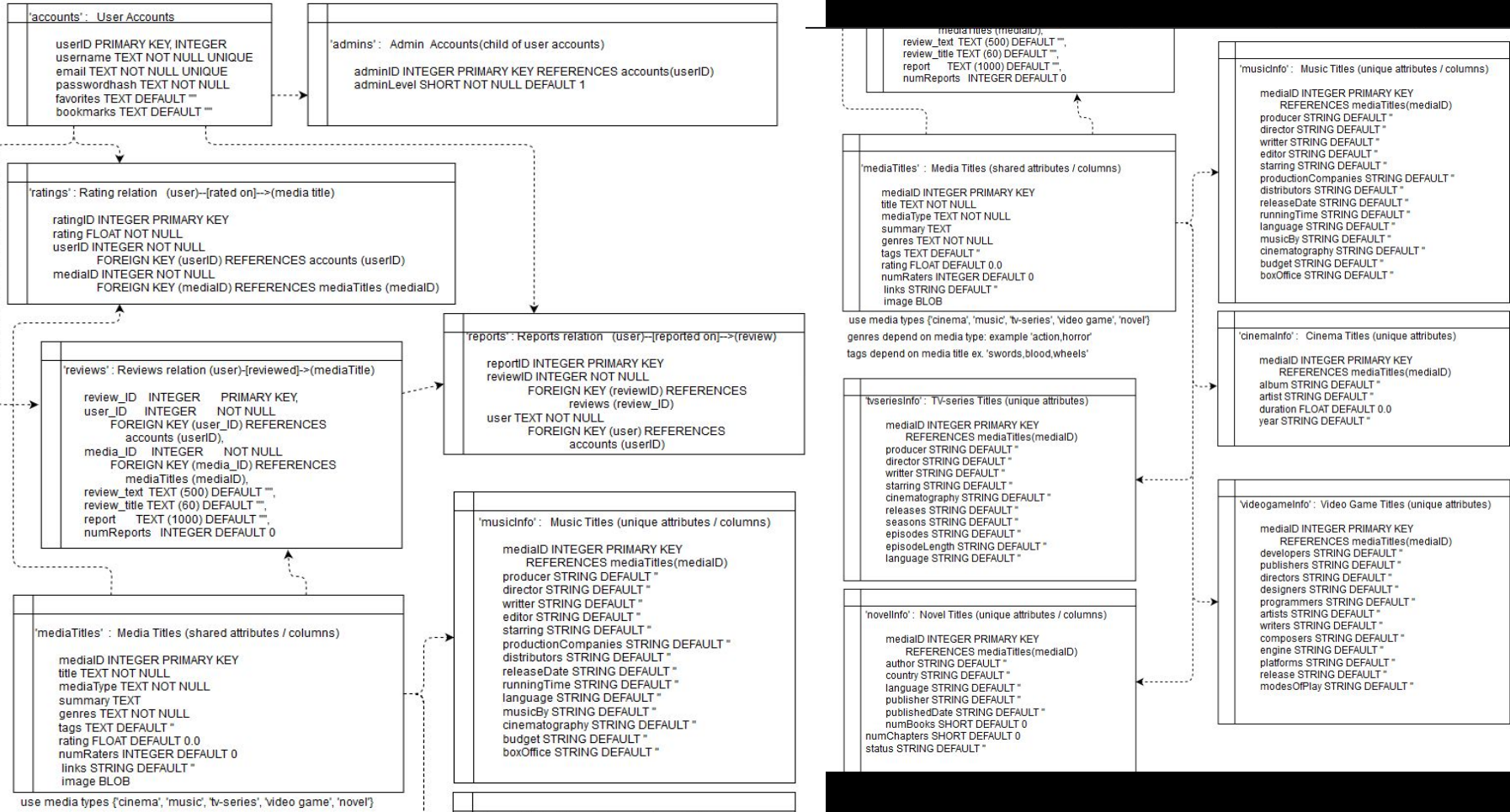
- Chose Android Studio to develop in because it wasn't as much as a hassle when compared to Apple app development
- Decided on SQLite to store our information because it was also fairly simple to use, however mySql would be better in terms of scalability if we were to expand our app
- HTTPS Server used for communication between our management and database system and the android app
- Session manager to keep track of active sessions of user activity

Architecture

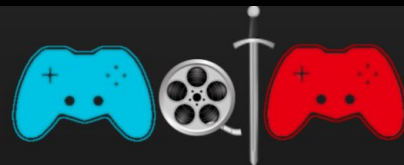
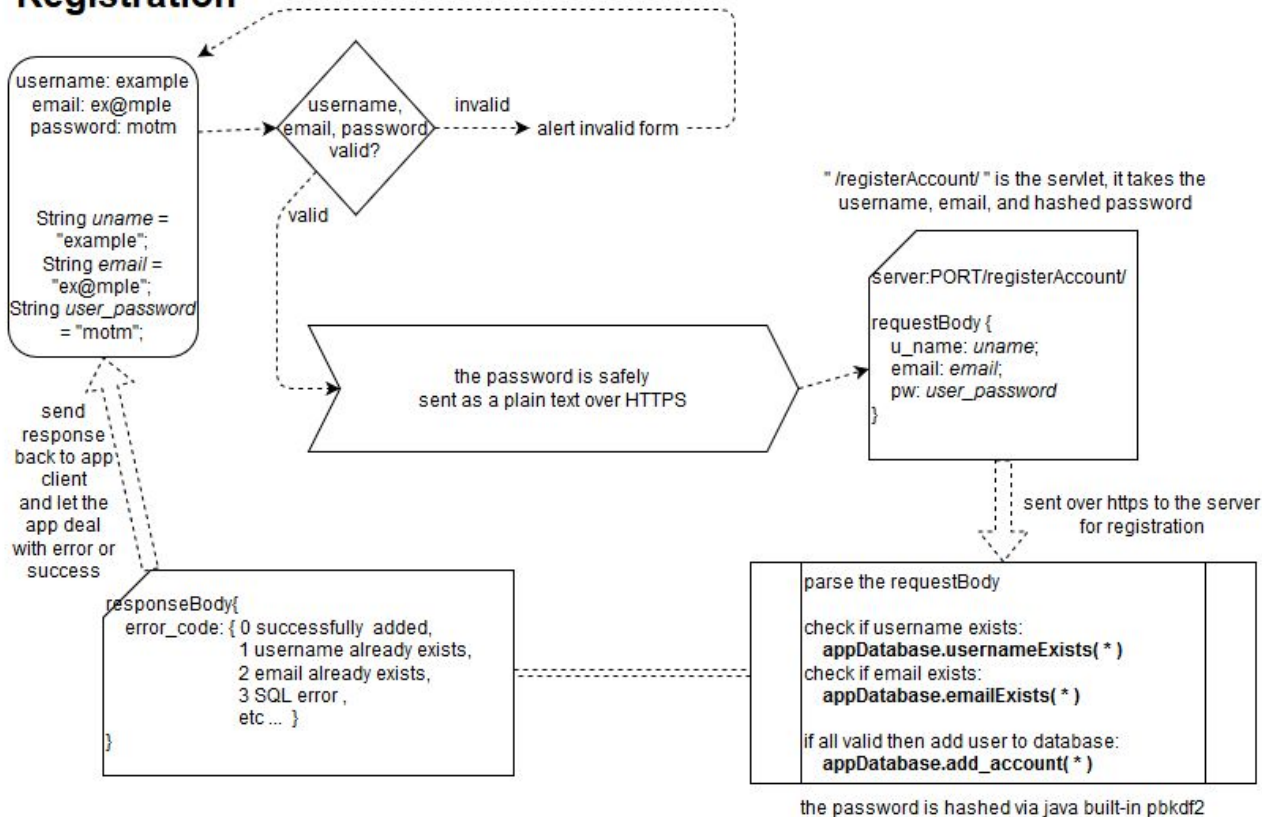
Basics



Database



Registration



Media of the Millenium

Username

Username

Email

someone@example.com

Password

Password

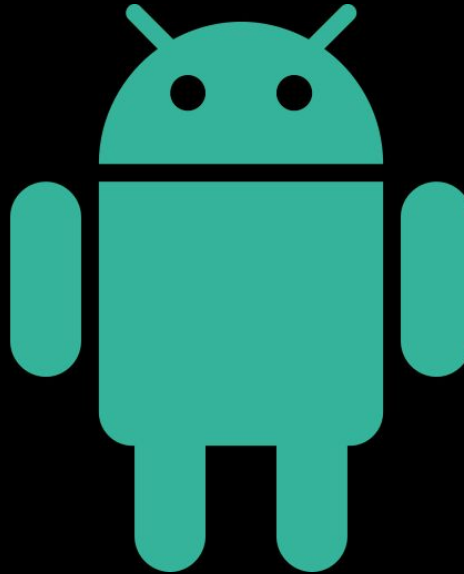
Confirm Password

Password

SIGNUP

Technologies Used

- Java Development Kit --version 8
- SQLite3
- PBKDF2 hashing
- Android -- version 4.4 KitKat
- Android Studio
- HTTPS server & client
 - Okhttp3
 - SSL / TLS
- Session Management



Technologies Used

Java Development Kit 8

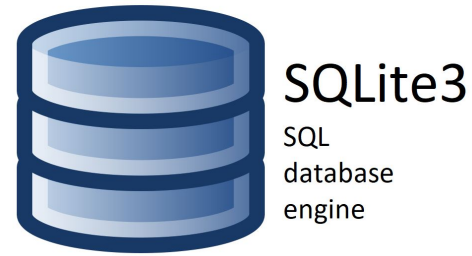
- Widely used and long term support
- Comfort and familiarity



Technologies Used

SQLite3

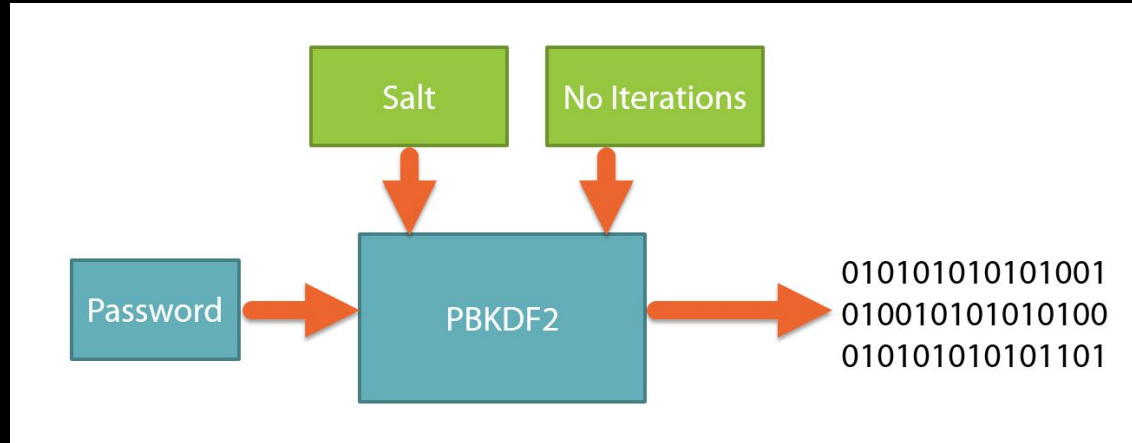
- Lightweight and easy to use
- Not scalable, lack of features
- Persistent image storage through BLOBs
- Xerial JDBC



Technologies Used

PBKDF2

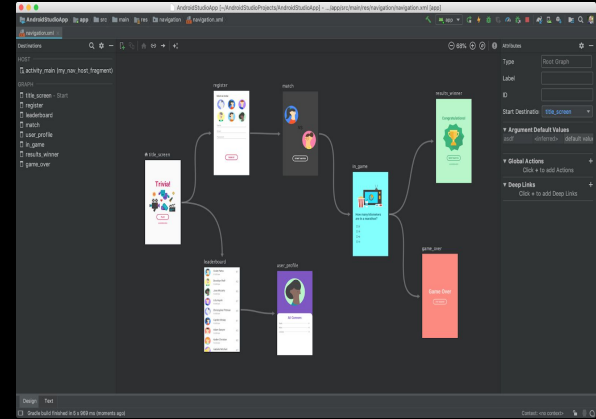
- Password-Based Key Derivation Function 2
- Why hash the password for the database?
- Password salting



Technologies Used

Android and Android Studio

- Android version 4.4 for compatibility and availability
- Android Studio for app development



Technical Challenges

- Issues with security
- Certificates and Keystore
- Async and sync processes
- Database locks Layouts on android studio were a hassle

Demo

Thanks for listening~

Any questions?