Developers of the Millenium

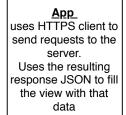
System Design

#### **Table of Contents**

Software Architecture Diagram

**CRC Cards** 

### **Basics**





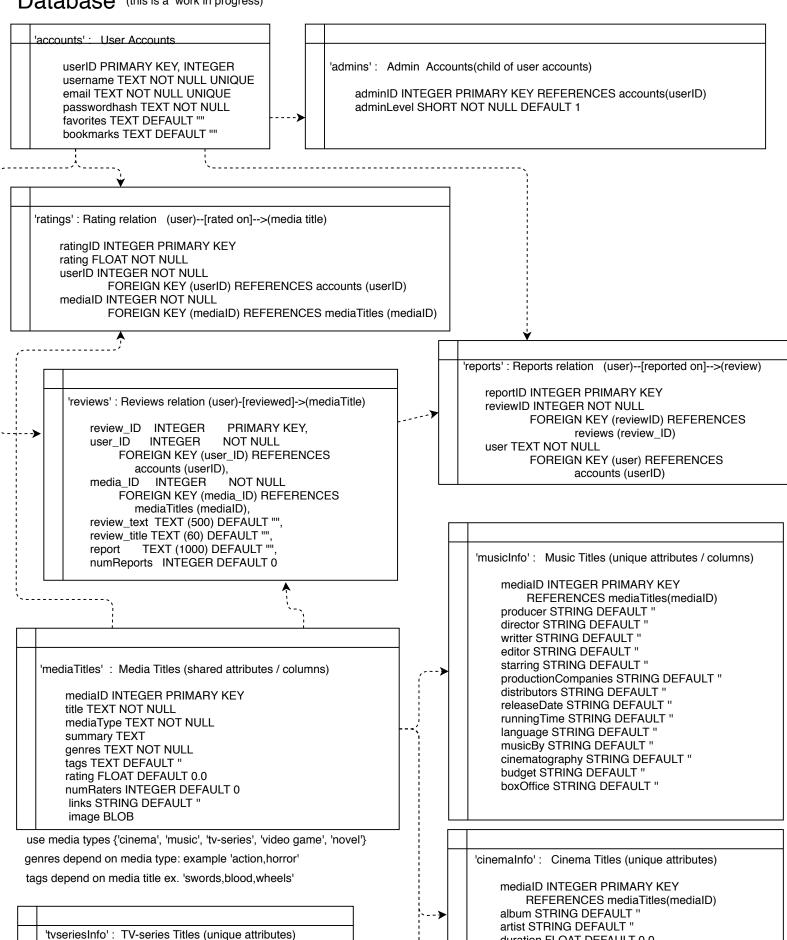
Server uses HTTPS server to accept request from clients (the app) and performs some task depending on the servlet.

The server then communicates with theSQLite3 database via jdbc driver.

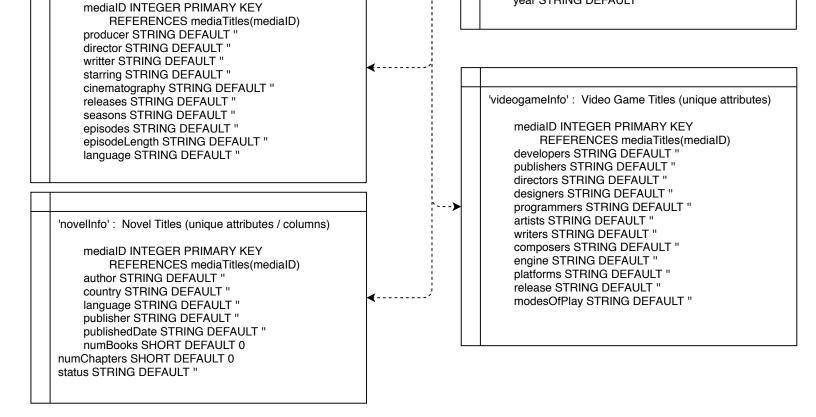
communicate over SQLite query language

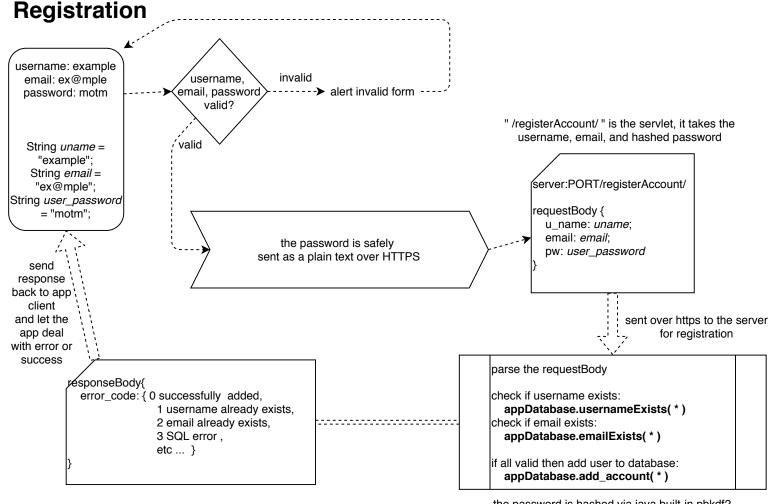
<u>SQLite3 database</u> holds all data pertaining to accounts and media title information

#### Database (this is a work in progress)



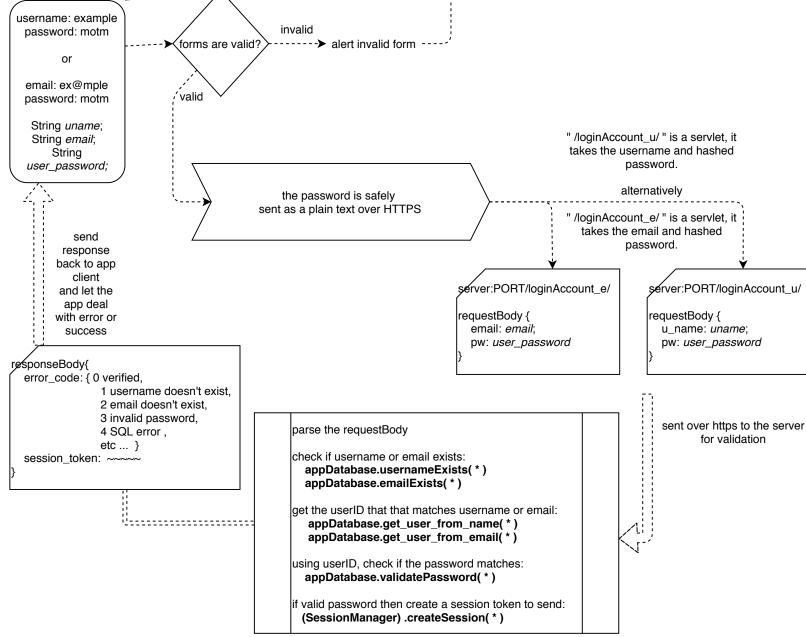
duration FLOAT DEFAULT 0.0





the password is hashed via java built-in pbkdf2

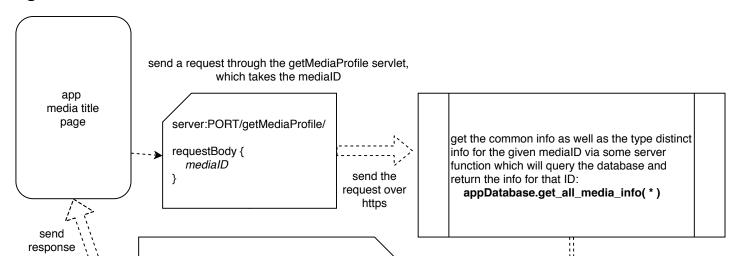




The given password is is verified by applying the hashing function and comparing the differences between the stored hash and the calculated hash.

The session manager will keep track of all active sessions and remove expired sessions after a set time

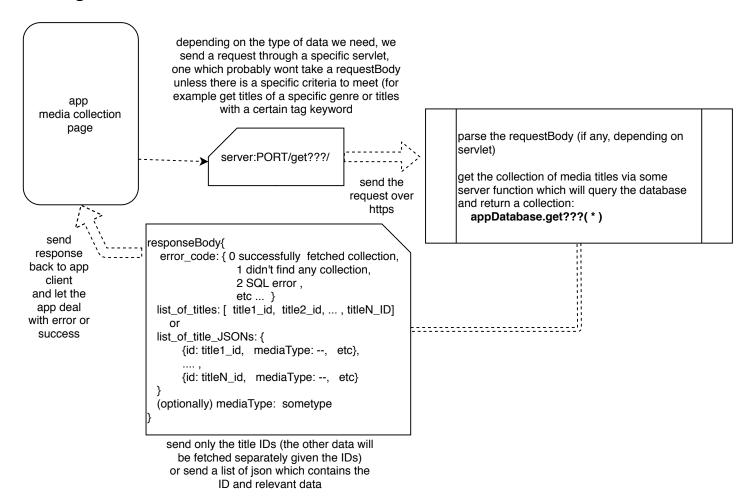
### get Media Profile



```
back to app
                       responseBody{
   client
                         error_code: { 0 successfully fetched collection,
and let the
                                        1 invalid mediaID,
                                                                          L------
 app deal
                                        2 critical server error,
with error or
                                        etc ... }
 success
                         common: {~:~, , , }
                        distinct: \{\sim:\sim, , , \}
                         cover_img (sent separately)
                             send all necessary data (image will
                           probably have to be sent separately due
```

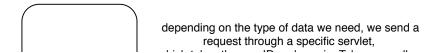
to http functionality)

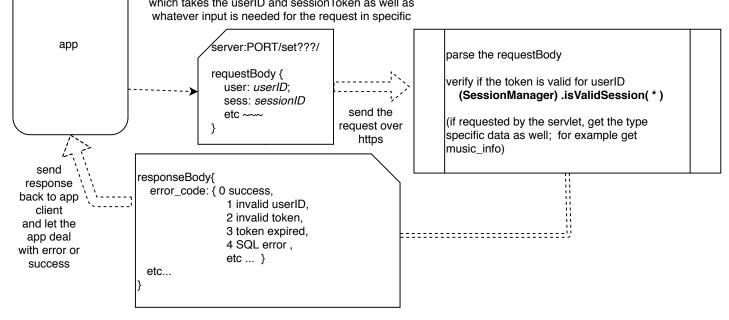
# example of a general endpoint ex: get collection of Media titles



### account sensitive request (example)

(post review, set rating, make changes to account page, etc)





send error and any thing else needed

3/27/2020 CRC Maker

### getReports (handles curl requests from client)

- taking a request from the client with a body containing a reviewID, username which it then add the info to the database (PUT)
- taking a request from the client with a body containing a reportID which it then remove the report from the database (DELETE)

AppDatabase, Server

#### **Abstract**

#### AddReport (sends curl requests to server)

- -allows the client to generate the curl request to the server for the PUT request (adding reviewID to reports table)
- AppDatabase
- Server
- getFavorites/getBookmarks

#### **Abstract**

#### GetUserMediaRating/GetMediaRating (send curl request to server)

- - sends curl request to retrieve user media rating/public media rating
- AppDatabase
- Server
- getMediaRating
- getUsersRating

#### Abstract

### UpdateRating (send curl request to server)

sends curl request to update a users rating information

- AppDatabase
- Server
- updateUsersRating

#### getSuggestionsFromFavorites

- get a suggestions list of media IDs via the users favorites
- select some genres from the titles in the favorites and find titles of the same genre
  excluding the ones in the favorites. If the favorites are empty then random titles
  will be used.
- AppDatabase
- Server
- SessionManager

https://echeung.me/crcmaker/

## 3/27/2020 **CRC Maker** mediaTitleSearch • searching the database for a media title that contains a sub-string and returning **AppDatabase** all matches Server getMediaRating (handles curl requests from client) • get the total rating and number of raters for a media title AppDatabase Server getUsersRating (handles curl requests from client) • get a user's rating on a media title AppDatabase Server updateUsersRating (handles curl requests from client) updating or adding a user's rating to a media title (update both the media rating **AppDatabas** Server and the user's rating) SessionManager mediaListFragment · add functionality to the mediaList view AppDatabase addImage

**AppDatabase** 

2/3

Adding an image binary via command line with the path to the image file as the

Data will be inserted to the last inserted row in the mediaTitles table.

argument.

https://echeung.me/crcmaker/

3/27/2020 CRC Maker

getReviews	
takes a request from the client with a body containing a reviewID,     username/eamail and session_token which is used to delete the review from the     database	<ul><li>AppDatabase</li><li>Server</li></ul>

getUserInfo		
gets the user info from the database		AppDatabase     server