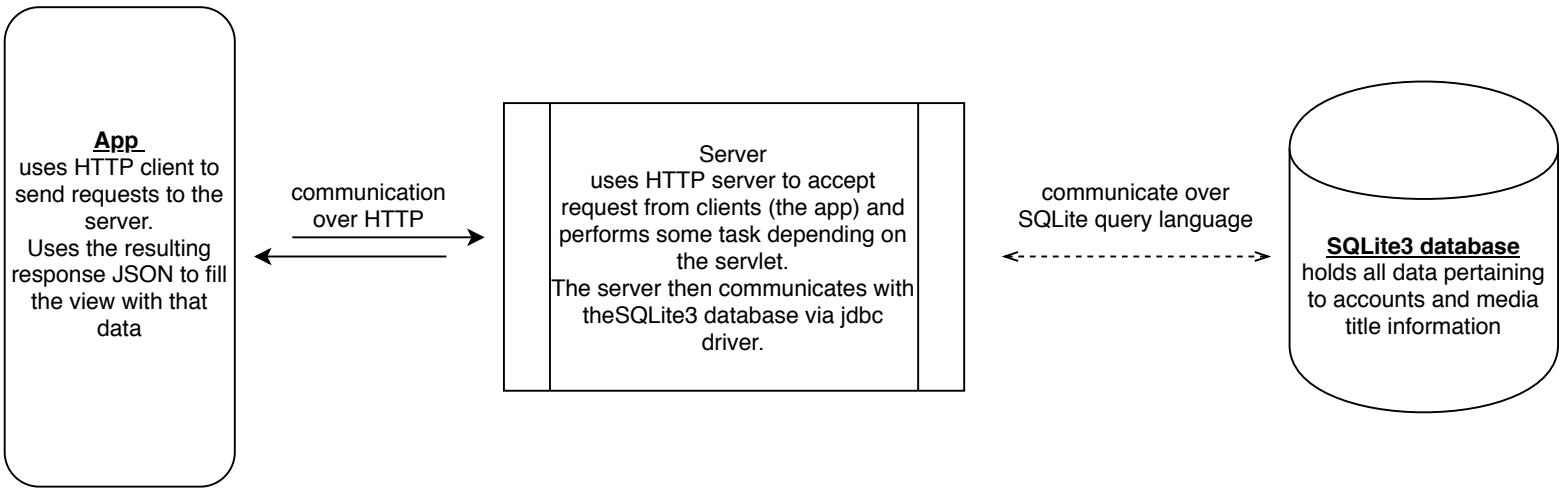
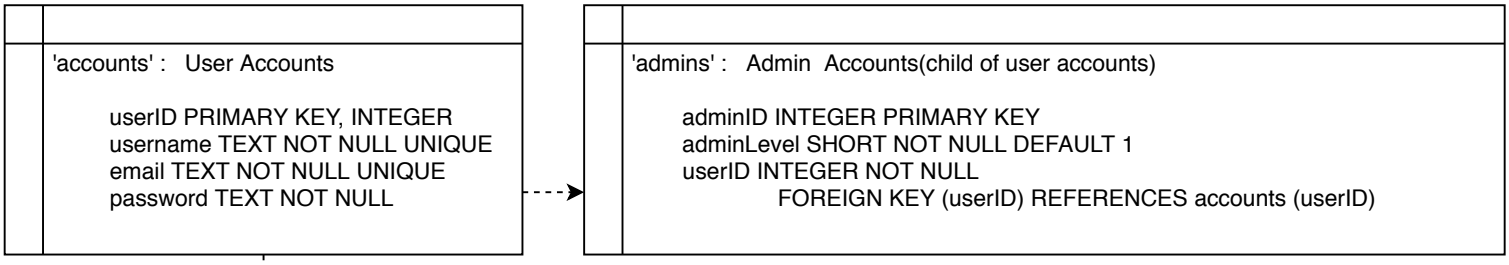
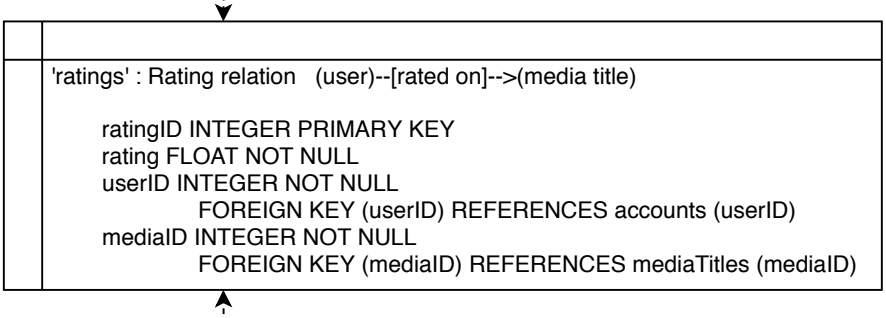
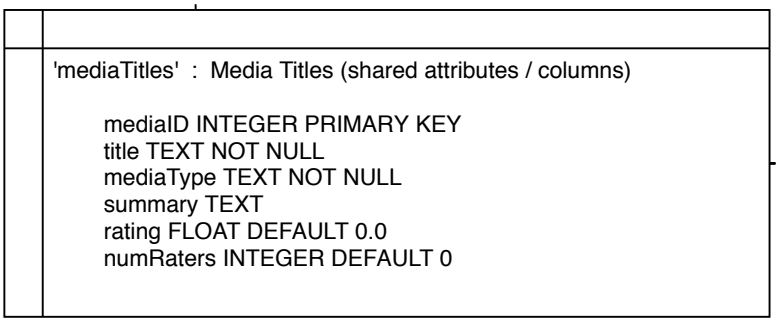
Basics



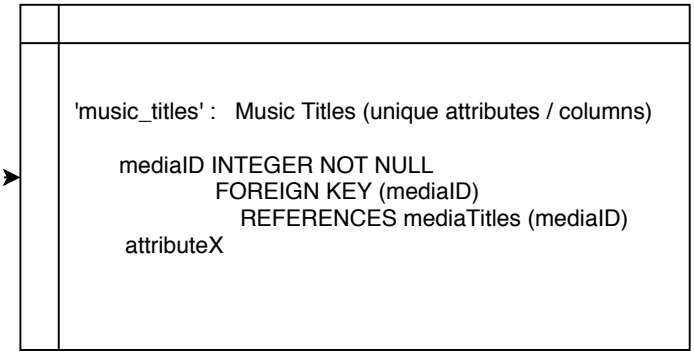
Database (this is a work in progress)

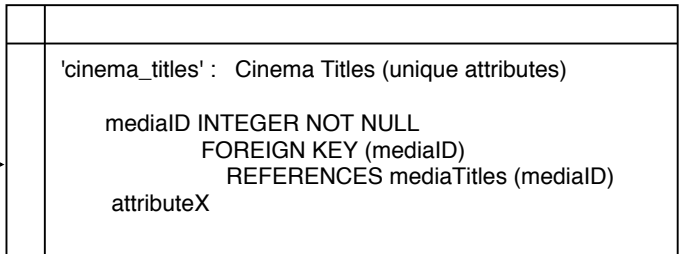


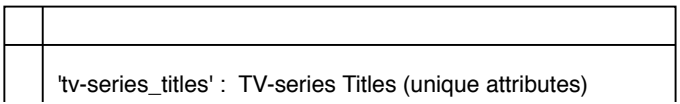




use media types {'cinema', 'music', 'tv-series', 'video game', 'novel'}







mediaID INTEGER NOT NULL
FOREIGN KEY (mediaID)
REFERENCES mediaTitles (mediaID)
attributeX

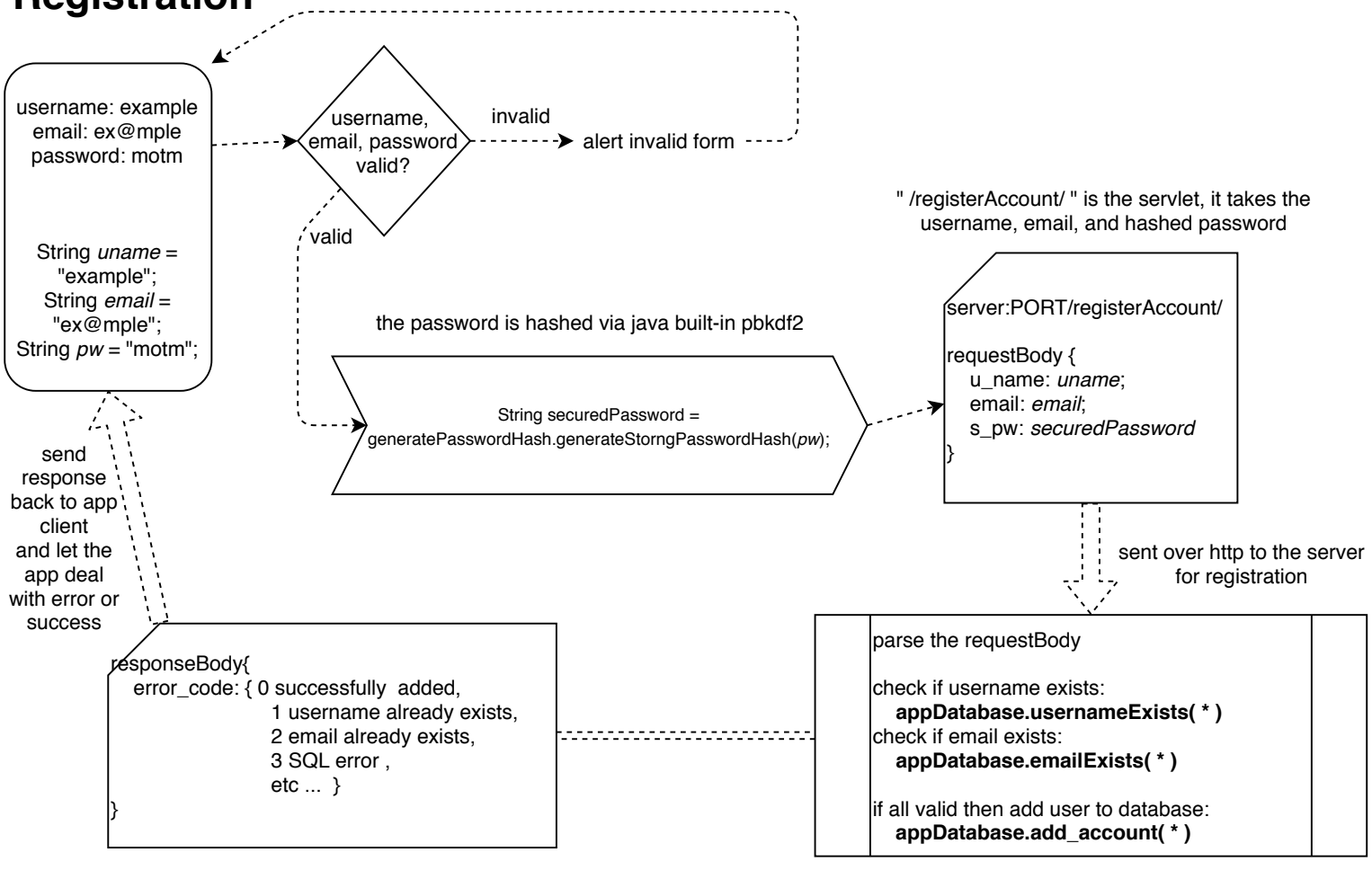
'videogame_titles' : Video Game Titles (unique attributes)

mediaID INTEGER NOT NULL
FOREIGN KEY (mediaID)
REFERENCES mediaTitles (mediaID)
attributeX

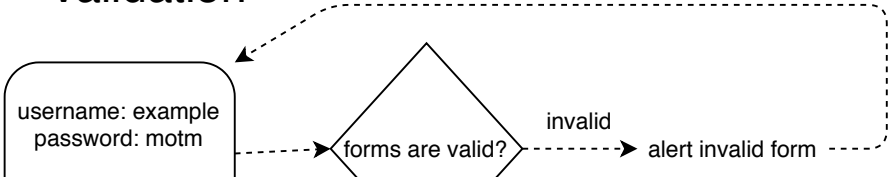
'novel_titles' : Novel Titles (unique attributes / columns)

mediaID INTEGER NOT NULL
FOREIGN KEY (mediaID)
REFERENCES mediaTitles (mediaID)
attributeX

Registration



Validation



or

email: ex@mple
password: motm

String *uname*;
String *email*;
String *pw*;

valid

the given password is hashed via java built-in pbkdf2

String *securedPassword* =
generatePasswordHash.generateStorngPasswordHash(*pw*);

alternatively use the wrapper function that achieves the same thing

" /loginAccount_u/ " is a servlet, it takes the username and hashed password.

alternatively

" /loginAccount_e/ " is a servlet, it takes the email and hashed password.

server:PORT/loginAccount_e/

requestBody {
email: *email*;
s_pw: *securedPassword*
}

server:PORT/loginAccount_u/

requestBody {
u_name: *uname*;
s_pw: *securedPassword*
}

sent over http to the server for validation

parse the requestBody

check if username or email exists:
appDatabase.usernameExists(*)
appDatabase.emailExists(*)

get the userID that that matches username or email:
appDatabase.get_user_from_name(*)
appDatabase.get_user_from_email(*)

using userID, check if the password matches:
appDatabase.validatePassword(*)

if valid password then create a session token to send:
function not defined

send response back to app client and let the app deal with error or success

responseBody{
error_code: { 0 verified,
1 username doesn't exist,
2 email doesn't exist,
3 invalid password,
4 SQL error ,
etc ... }
session_token: ~~~~~
(?) userID : ~~
}

get collection of Media titles (for example top 10)

app
media collection
page

depending on the type of data we need, we send a request through a specific servlet, one which probably wont take a requestBody unless there is a specific criteria to meet (for example get titles of a specific genre or titles with a certain tag keyword

server:PORT/get???/

send the request over http

parse the requestBody (if any, depending on servlet)

get the collection of media titles via some server function which will query the database and return a collection:
appDatabase.get???(*)

send response back to app

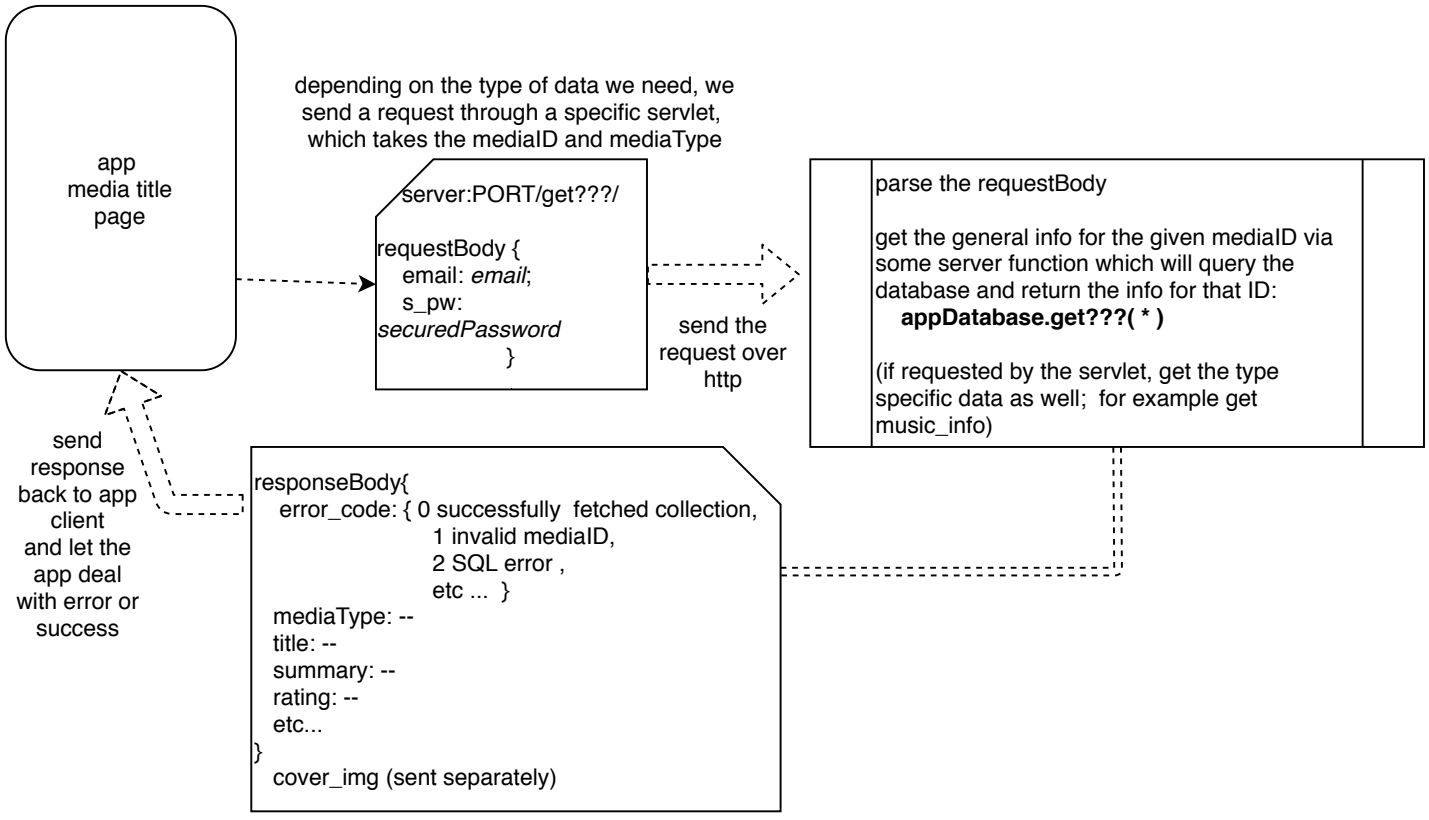
responseBody{
error_code: { 0 successfully fetched collection,
1 didn't find any collection

client
and let the
app deal
with error or
success

2 SQL error ,
etc ... }
list_of_titles: [title1_id, title2_id, ... , titleN_ID]
or
list_of_title_JSONs: {
{id: title1_id, mediaType: --, etc},
.... ,
{id: titleN_id, mediaType: --, etc}
}
(optionally) mediaType: sometype
}

send only the title IDs (the other data will
be fetched separately given the IDs)
or send a list of json which contains the
ID and relevant data

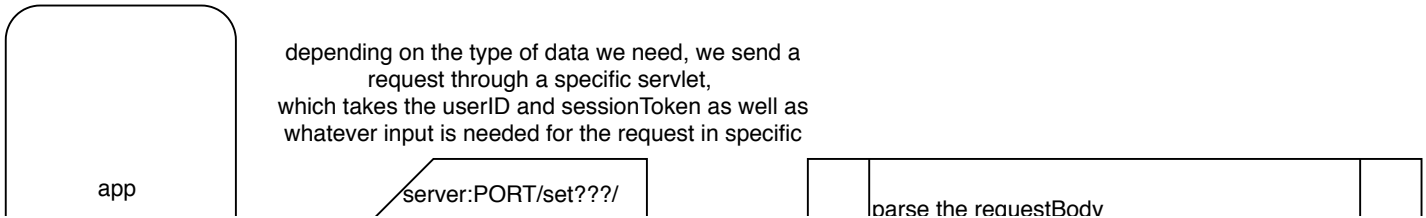
get Media title info

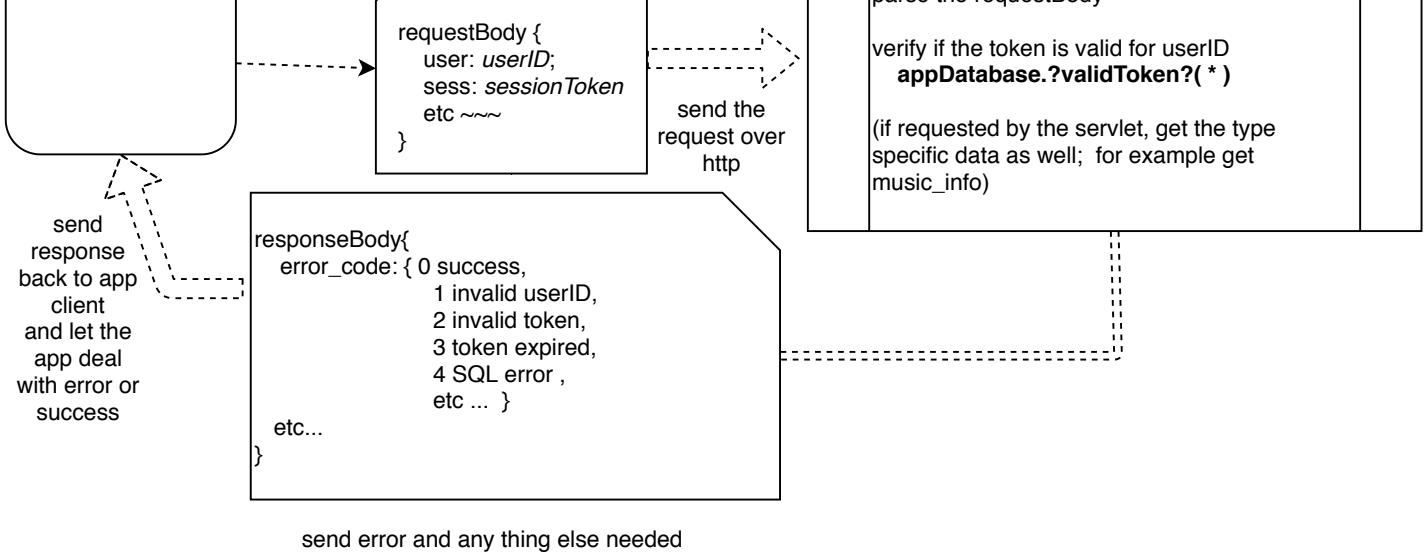


send all necessary data (image will
probably have to be sent separately due
to http functionality)

make account sensitive request (WIP)

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




requestBody {
user: *userID*;
sess: *sessionToken*
etc ~~~
}
send the request over http
verify if the token is valid for userID
appDatabase.?validToken?(*)
(if requested by the servlet, get the type specific data as well; for example get music_info)
send response back to app client and let the app deal with error or success
responseBody{
error_code: { 0 success,
1 invalid userID,
2 invalid token,
3 token expired,
4 SQL error ,
etc ... }
etc...
}
send error and any thing else needed