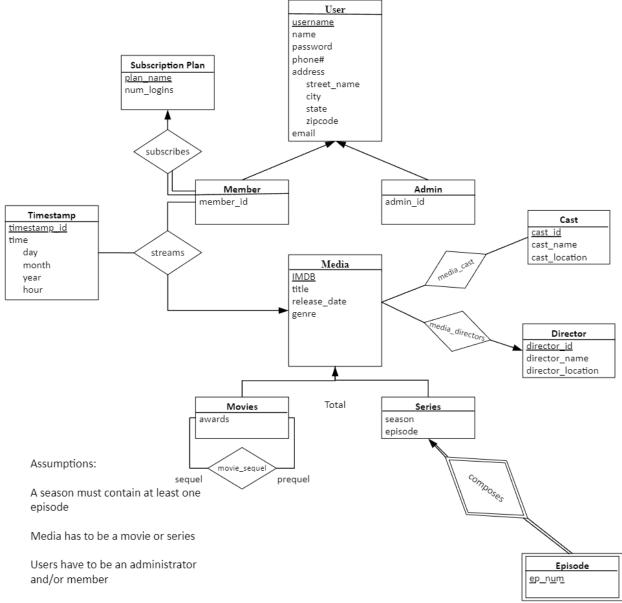
Our project aimed to create a mock streaming service with a correlating database. We utilized a Java front-end design connected to a MYSQL database to accomplish this. In our streaming service, everyone is considered a user and can either be an administrator or a member, or both. We give each user the option to have either a basic plan or an extra plan, which allows members to access the streaming service from one or three locations at a time.

Our front end allows for secure login and based upon your status as a user (administrator or member), it will greet you with the ability to search for different shows/movies by the director, actors, movie title, or genre. As a member, you can also see your streaming history and the media you've not yet streamed. It also offers a convenient checkbox system to where you can select and view multiple media items based on the awards, actors, director, etc.

As an administrator, our streaming service grants you access to several tools from the front end. You can add or remove shows or movies with the click of a button, view the streaming trend over the past 24 hours, view the streaming history of a particular movie/series, and view the ten most streamed media over the past month. You can also delete members; however, you cannot delete a user's data.

User login information for different levels of access
Admin:
(username), (password)
bill, password2
bob, password3
randy, password1
Member:
(username), (password)
nate, password6
isaac, password5
Admin & Member:
(username), (password)
cole, newpassword



Administrators can be members

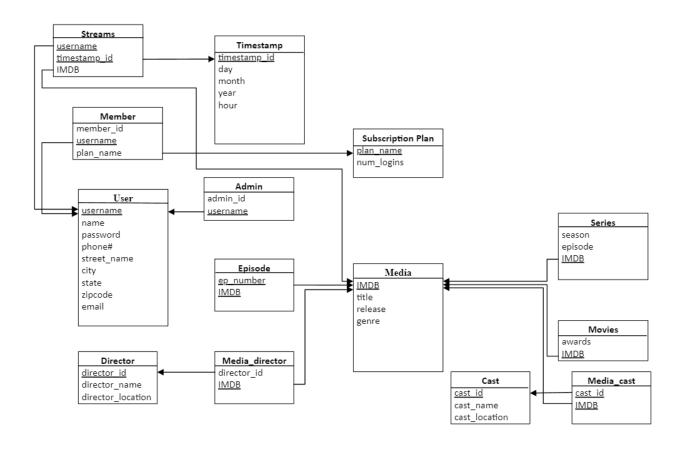
Every media must have at least one cast and director

Every time media is streamed, a timestamp is recorded

Each member must have a subscription plan but a subscription is not required to have members subscribed to it

Relation Schema

```
user(<u>username</u>, name, password, phone num, street name, city, state, zipcode, email)
member(username, member id, plan name)
       plan name is a FK that references subscription plan,
admin(username, admin id)
subscription plan(plan name, num logins)
timestamp(timestamp id, day, month, year, hour)
streams(username, timestamp id, IMDB)
       username is a FK that references member
       timestamp id is a FK that references timestamp
media(IMDB, title, release, genre)
movies(IMDB, awards)
series(IMDB, season, episode)
Episode(ep num, IMDB)
       IMDB is a FK that references series
media cast(IMDB, cast id)
       IMDB is a FK that references media
       cast id is a FK that references cast
cast(cast id, cast name, cast location)
media director(<u>IMDB</u>, director id)
       IMDB is a FK that references media
director (director id, director name, director location)
movie sequel(sequel, prequel)
       sequel is a FK that references movies
       prequel is a FK that references movies
```

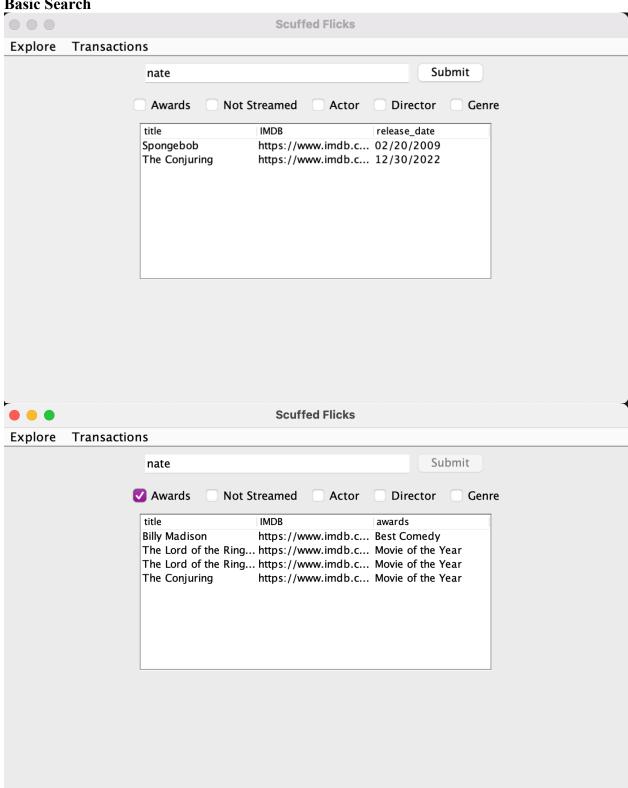


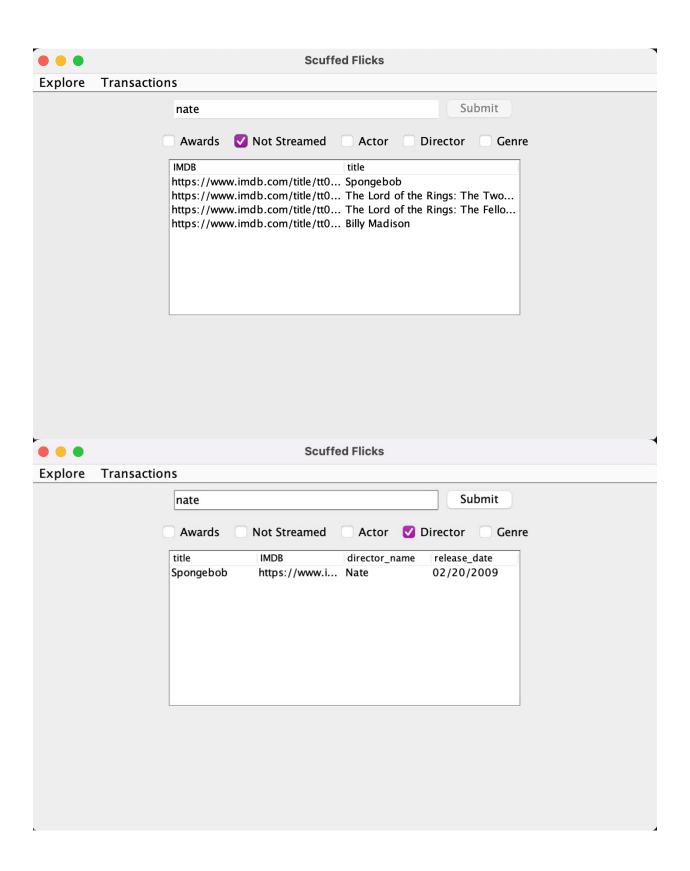
GUI/Program Capabilities: Login

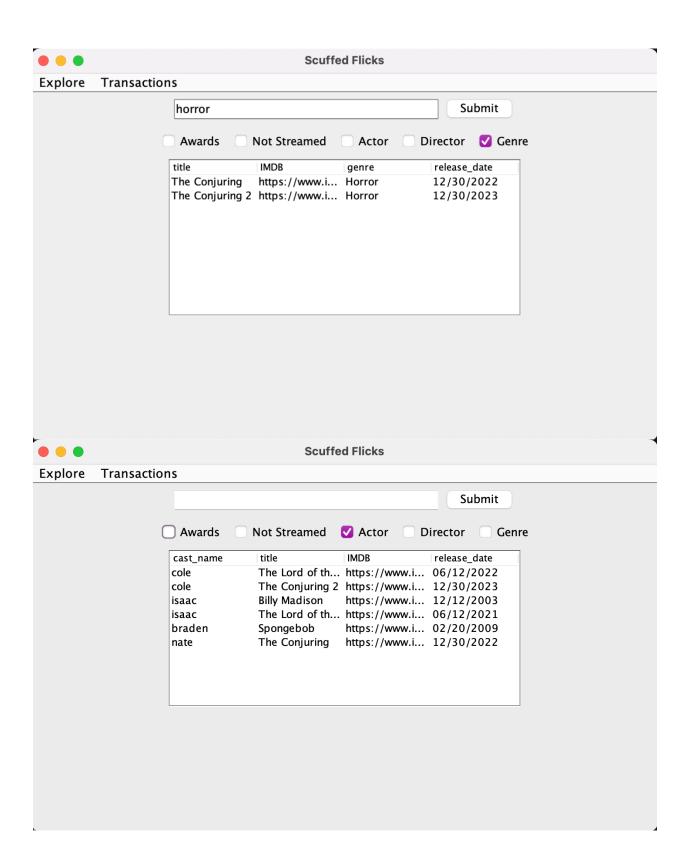
	Scuffed Flicks	
User ID Password		Login

Queries

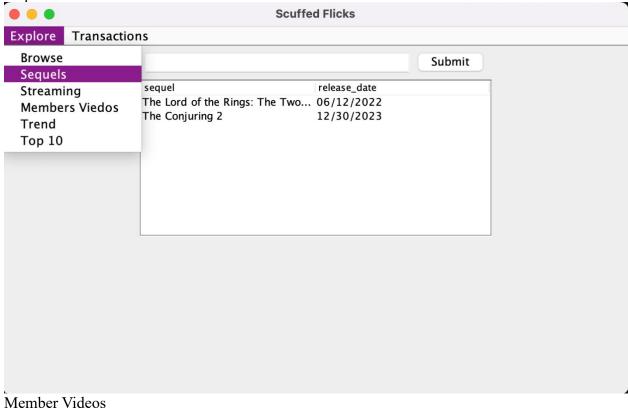
Basic Search

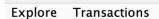






Sequels

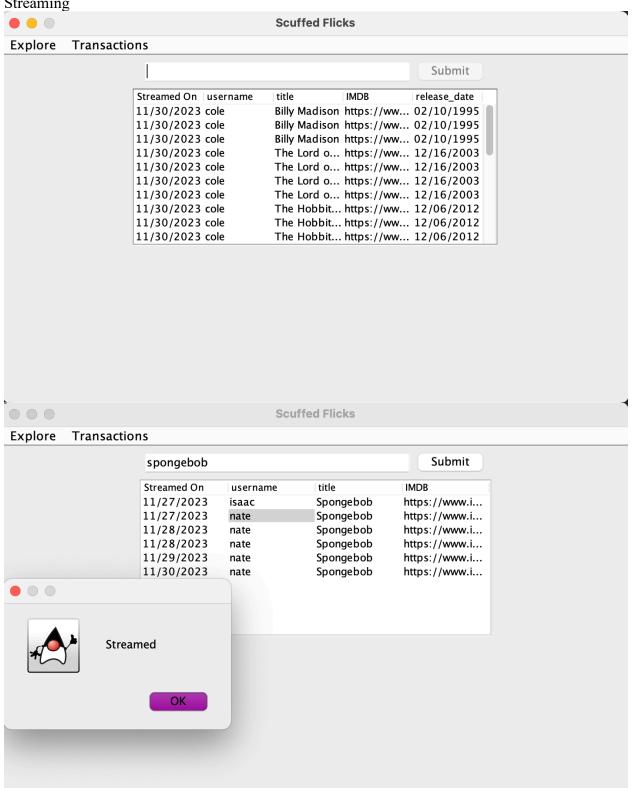




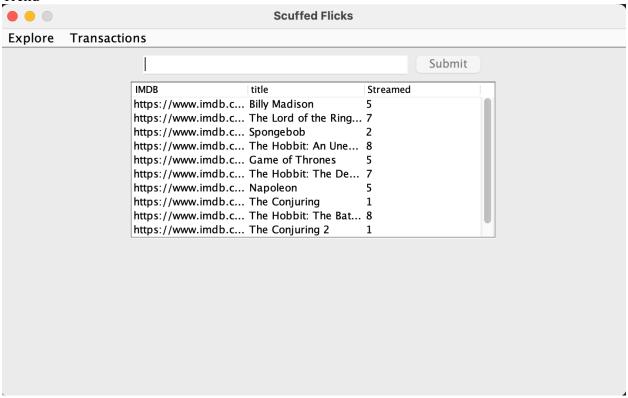
spongebob			Submit
Streamed On	username	title	IMDB
11/27/2023	isaac	Spongebob	https://www.i
11/27/2023	nate	Spongebob	https://www.i
11/28/2023	nate	Spongebob	https://www.i
11/28/2023	nate	Spongebob	https://www.i
11/29/2023	nate	Spongebob	https://www.i
11/30/2023	nate	Spongebob	https://www.i

Scuffed Flicks

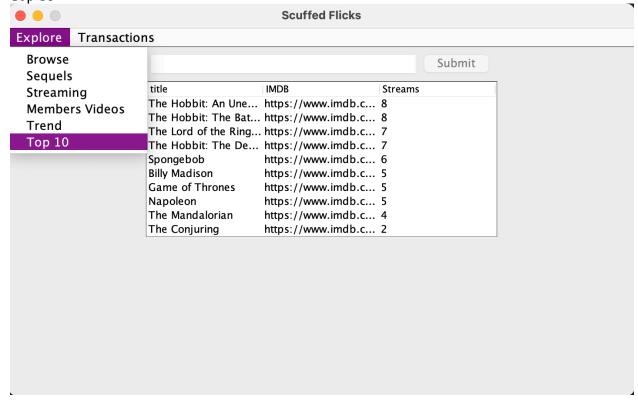




Trend

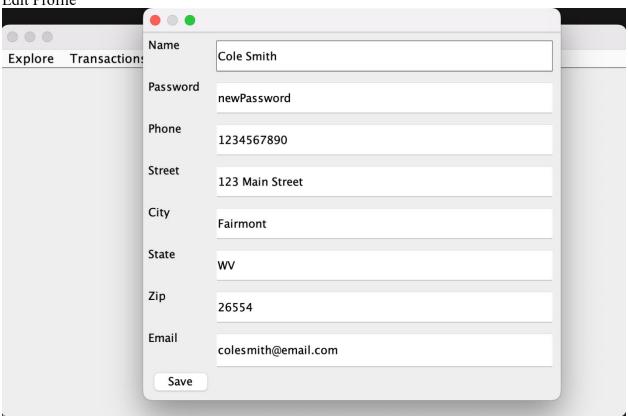


Top 10

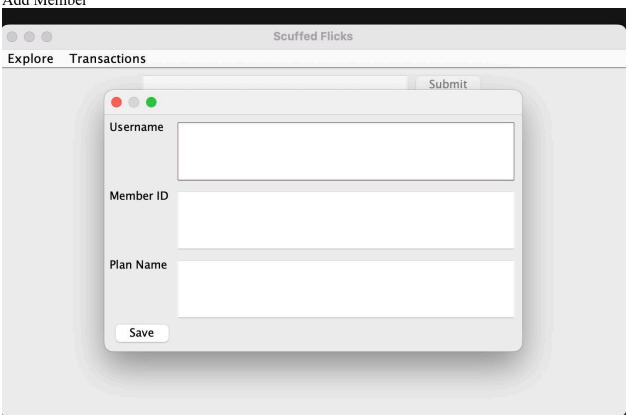


Transactions:

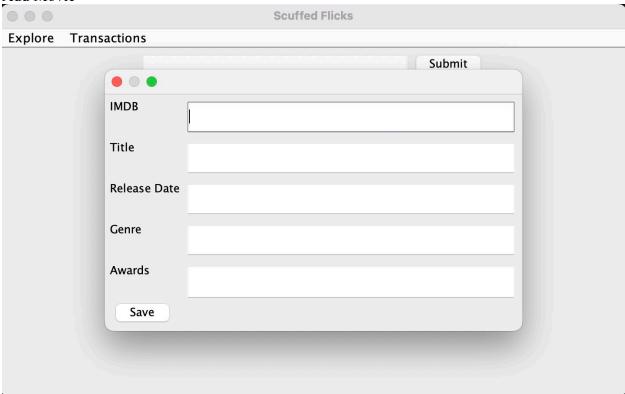
Edit Profile



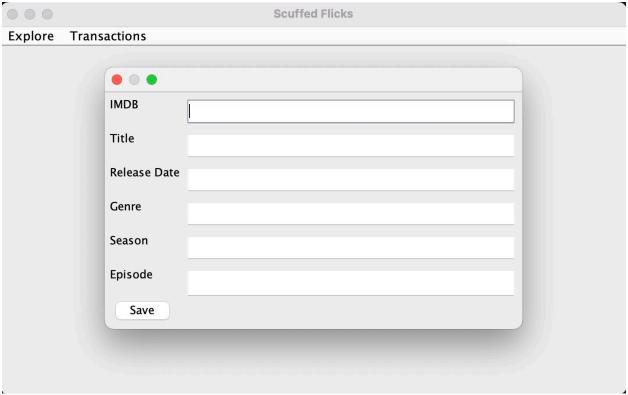
Add Member



Add Movie



Add Series



Trigger used in MYSQL

```
The series of th
```

Limitations of Program:

For the final version of our project the GUI works exactly as intended. All the queries and transactions function as they need to. However, that doesn't mean that there isn't room for improvement. The biggest improvement that can be made about our program would have to be the visuals of the GUI. The buttons could be more intuitive to pull the users to the queries and transaction they may need to use. When doing a transaction, we could add in a visual

representation that pops up to show that the transaction went through without needing to look at the database itself. And we could format the GUI so that the client can resize the window or customize the look of the GUI to their own personal preference. However, these changes wouldn't do anything to affect the way the program works.

If given more time we would also have loved to implement more functionality to the program. Specifically new users being able to create an account from the login screen if they don't already have one as well as being able to click on a part of the cell to open a new window that plays a tailer for the user from the piece of media. Finally, the program could be improved further if we were able to add in triggers for every type of specific transaction that can take place in the program however those would be too numerous to list them all.