

CSCE 315 Project 2

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Project Mission

Our team designed a crowd-sourced recommendation system housed on Amazon Web Services (AWS) for a content streaming company that includes a database management system (DBMS) and a corresponding graphical user interface (GUI), taking in existing watch history data to analyze trends and make personalized viewing recommendations.

Related Files

- database_design.pdf:

In this file, we illustrated how we design our database including high-level and low-level designs.

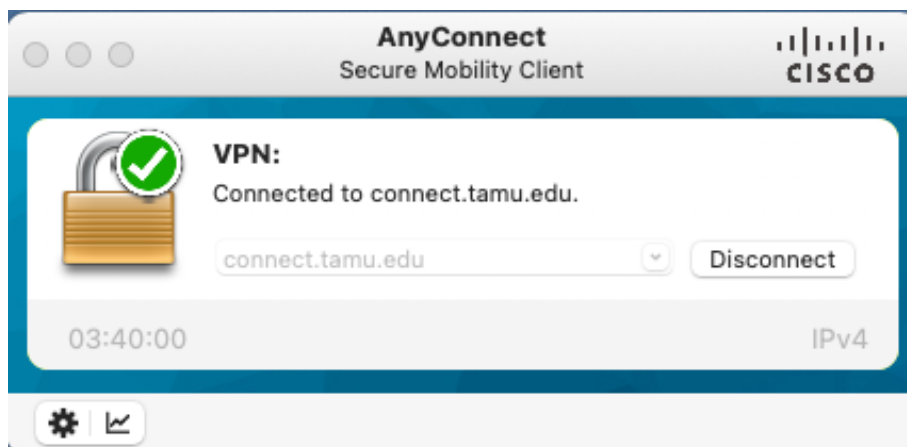
- GUI-sketch.pdf:

This is our first version of GUI sketch file.

Demo

Since connecting the AWS database need TAMU VPN request, in this case, here is a vitural demo of our project.

step 1: connect to TAMU VPN and make sure connect to database successfullly



```
psql -h csce-315-db.engr.tamu.edu -U csce315904_3user csce315904_3db
> psql -h csce-315-db.engr.tamu.edu -U csce315904_3user csce315904_3db
Password for user csce315904_3user:
psql (14.0, server 12.7)
SSL connection (protocol: TLSv1.2, cipher: ECDHE-RSA-AES256-GCM-SHA384, bits: 256, compression: off)
Type "help" for help.

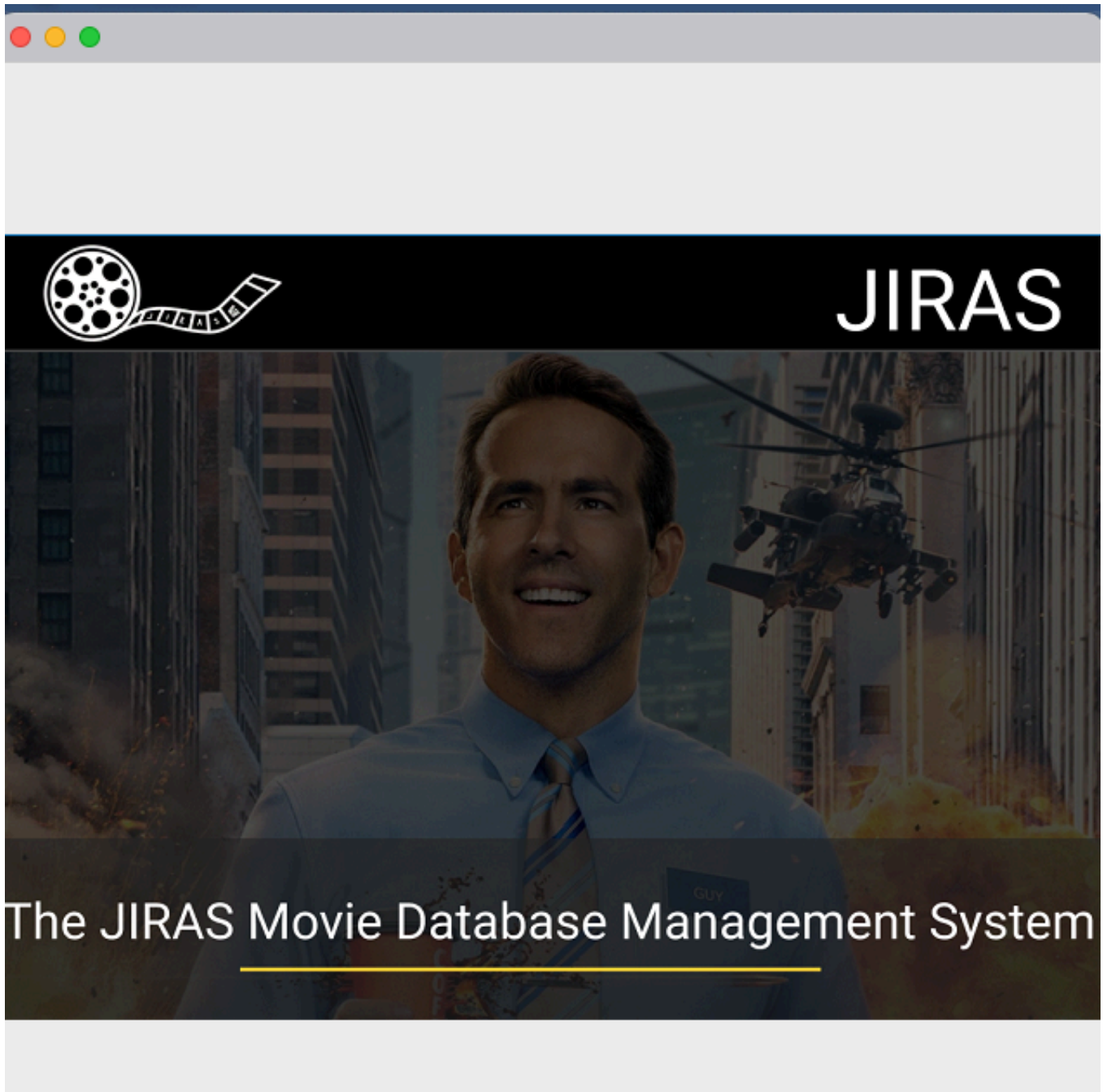
csce315904_3db=>
```

step 2: cd to the GUI_Files folder and compile the java files to start the program

```
1 | javac -cp ".:xchart-3.8.1.jar:postgresql-42.2.8.jar" Welcome.java
2 | java -cp ".:xchart-3.8.1.jar:postgresql-42.2.8.jar" Welcome
```


```
java -cp ".:xchart-3.8.1.jar:postgresql-42.2.8.jar" Welcome
> cd /Users/abby/Desktop/2021_fall/CSCE315_904/pop-video-recommender/GUI_Files
> javac -cp ".:xchart-3.8.1.jar:postgresql-42.2.8.jar" Welcome.java
> java -cp ".:xchart-3.8.1.jar:postgresql-42.2.8.jar" Welcome
```

Welcome page



Login page

We have two roles in this program: analyst and user. Analysts are able to have the access of users watch history and the statistics of popular trending videos. Users only have the access of their own watch history.



JIRAS

Mode

Username

Password

SELECT
ANALYST
USER

Login

Create

Analyst Page

(It takes a while since there is A LOT OF calculations....)

