# Project Step 6 Draft Portfolio Assignment: Movie Recs
## Group 40: Jonathan Lu and Andrew Haylett
### Website Url:[http://flip3.engr.oregonstate.edu:3002/](http://flip3.engr.oregonstate.edu:3002/)

## Executive Summary

For our database project we designed our database to serve as a one stop shop for movie fanatics looking to find movies they enjoyed and the actors, directors, and studios that played a role in those movies. During the process, our entities for the tables remained the same with some changes to our file configuration during the development of our database. Our process for this project was first to design the various tables/entities, implement the SQL, design our website interface, and then finally connect our website to the database.

## Summary of Feedback

- During our first draft we received feedback on our ERD diagram saying that it was in the wrong format and was more so a schema.
- Originally we had a M:M relationship between our movies and genres, but after meeting with TA Devin he recommended that we change our M:M relationship to movies and directors.
- When we first started the web design aspect of our project we were making static HTML files. TA Devin told us to reformat our entire file structure so we would have backend and frontend files.
- We got some peer-review feedback regarding how the style of our website could be improved as well as adding more dropdown options.
- Our last piece of feedback was changing our M:M relationship back to movies and genres as it was really difficult to implement the movies and directors M:M relationship.

## Summary of Changes

- Our first change was to change our ERD diagram so it was the correct format.
- We completely changed our file structure for our website which meant creating frontend and backend folders.
- We changed our M:M relationship from movies to directors to movies and genres at the end of our project.
- We added more drop down options on our Movies and Genres page.
- We created a new CSS style sheet in order to improve our website style for user enjoyment.

**Project Title:**

Movie Recs - A gateway to all your favorite movies.

**Project Outline:**

Movie Recs is a database that contains movies, their genres, directors, and the studios they belong to. We expect to have 10,000 members who can upload a max of 5 movies. The problem we are trying to solve with this database is to narrow down movies that users might enjoy. Since there are so many movies available it can become difficult to find some that you enjoy. Our database solves this by giving users the option to search based on limited data provided by other users. Users have the ability to add movies they enjoy to lists of new movies which allows others to find suggestions based on their likes and dislikes. Users can search for movies based on different categories so that they can narrow down their picks and learn about movies that interest them.

**Database Outline:**

**Genres: Records the genres of movies**
    Attributes
        - genre_id: int, auto_increment, unique, not Null, PK
        - genre_title: varchar(50), not NULL
        - genre_description: varchar(250), not NULL

    Relationship: M:M relationship with the Movies table implemented with an intersection table movies_genres

**Directors: Stores details regarding directors of movies**
    Attributes
        - director_id: int, auto_increment, unique, not NULL, PK
        - director_firstname: varchar(100), not NULL
        - director_lastname: varchar(100), not NULL
        - gender: varchar(1), not NULL
        - movies_directed: int, not NULL

    Relationship: 1:M relationship between Directors and Movies implemented with a foreign key

**Movies: Records details regarding movies**

Attributes
- movie_id: int, auto-increment, unique, Not Null, PK
- movie_title: varchar(200), Not Null
- studio_id: int, Not Null, FK
- genre_id: int, Not Null, FK
- release_date: Date

Relationships: M:M relationship between Movies and Genres
M:1 relationship between Movies and Studios
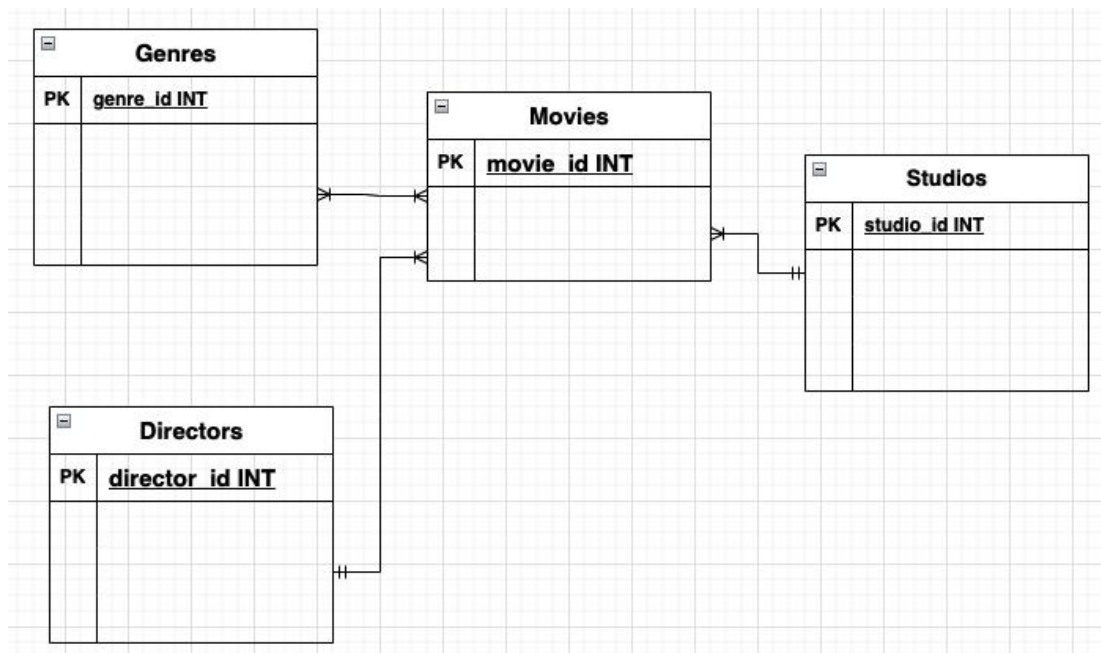M:1 relationship between Movies and Directors

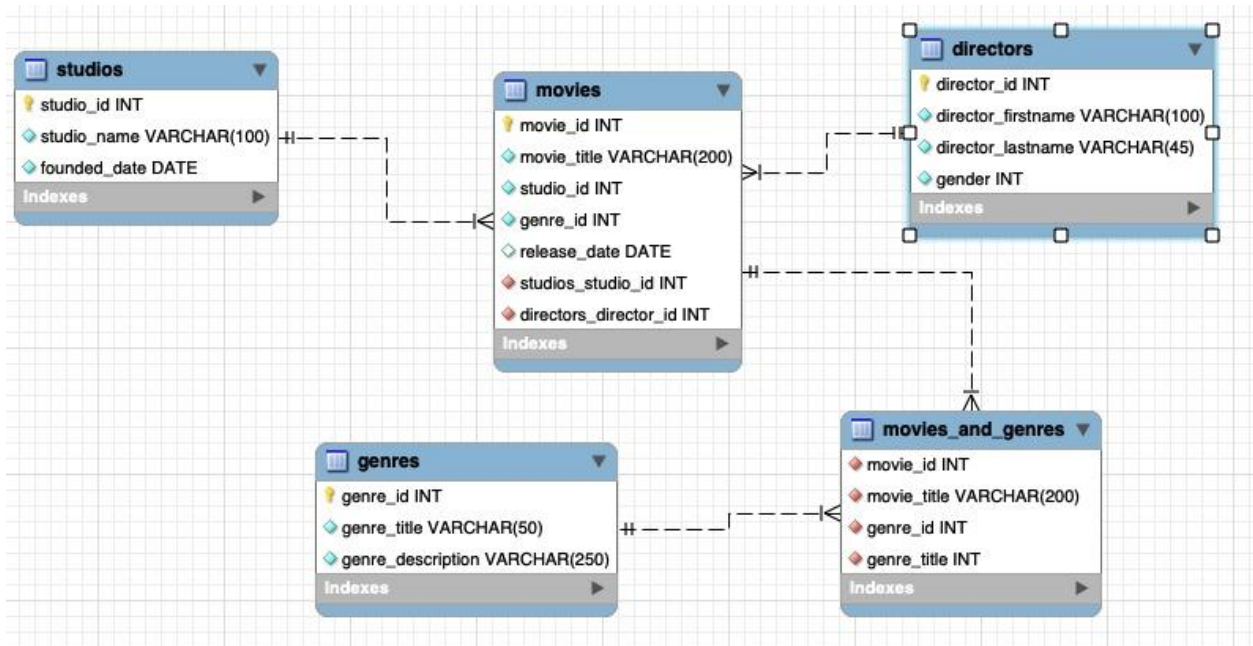**Studios: Records details regarding different movie studios**
Attributes
- studio_id:  int, auto-increment, unique, Not Null, PK
- studio_name: varchar(100), Not Null
- founded_date: Date

Relationship: 1:M Relationship between Studios And Movies implemented with a foreign key in the Movies table

**Entity-Relationship Diagram/Schema Diagram:**

**Example Data:**

| Genres | | |
|---|---|---|
| genre_id | genre_title | genre_description |
| 1 | comedy | This genre includes slapstick, romantic comedies, parodies, and satires |
| 2 | action | This genre often includes elements of adventure and suspense, and may also incorporate special effects and stunt work. |
| 3 | romance | This genre focus on relationships, love, and emotions and can include elements of drama, comedy, or fantasy. |
| 4 | horror | ...nre can include jump scares, gore, suspenseful music and sound effects and are designed to elicit fear and suspense in viewers. |

| directors | | | |
|---|---|---|---|
| director_id | director_firstname | director_lastname | gender |
| 1 | John | Doe | Male |
| 2 | Jane | Doe | Female |
| 3 | Peter | Jackson | Male |

| movies | | | | |
|---|---|---|---|---|
| movie_id | movie_title | studio_id | genre_id | release_date |
| 1 | John Doe Strikes Back | 1 | 1 | 01/01/1994 |
| 2 | Jane Doe's Revenge | 2 | 2 | 02/02/1996 |
| 3 | ...e Rings the Fellowship of | 3 | 2 | 12/19/2001 |

## studios

| studio_id | studio_name | founded_date | |
|---|---|---|---|
| 1 | Jon Doe Studios | 01/01/2005 | |
| 2 | Jane Doe Studios | 01/01/2006 | |
| 3 | New Line Cinema | 01/01/1967 | |

## movies_and_genres

| movie_id | movie_title | genre_id | genre_title |
|---|---|---|---|
| 1 | John Doe Stikes Back | 2 | Action |
| 2 | Jane Doe's Revenge | 2 | Action |
| 3 | Cars | 1 | Comedy |

## Screen Captures

Read/Browse/Display Genres Page

### Genres

| Genre ID | Genre Title | Genre Description | Edit | Delete |
|---|---|---|---|---|
| 1 | Comedy | | Edit | Delete |
| 2 | Action | | Edit | Delete |
| 4 | Horror | | Edit | Delete |
| 7 | Action | Big Explosions | Edit | Delete |
| 8 | Horror | Scary | Edit | Delete |

Add Genre    Return to Home

Add Genre Page

### Add Genre

Genre Name: Enter Genre Name...
Genre Description:

Update

Edit Genre Page

### Update Genre

Genre Title: Comedy
Genre Description:

Update

## Delete Genre Page



## Read/Browse/Display Movies Page



## Add Movie Page



## Edit Movie Page

Delete Movie Page

**Delete Movie**

Are you sure you want to delete this Movie?

Delete

Read/Browse/Display Directors Page

**Directors**

| Director ID | Director First Name | Director Last Name | Gender | Movies Directed | Edit | Delete |
|---|---|---|---|---|---|---|
| 5 | Napoleon | Naptime | M | 0 | Edit | Delete |
| 8 | James | Bond | M | 0 | Edit | Delete |
| 9 | Cool | Bill | M | 0 | Edit | Delete |

Add Director    Return to Home

Add Director Page

**Add Director**

Director First Name: Enter First Name...
Director Last Name: Enter Last Name...
Gender: Enter Gender...

Update

Edit Director Page

**Update Director**

Director First Name:
Director Last Name:
Gender:

Update

Delete Director Page

**Delete director**

Are you sure you want to delete this director?

[Delete]

Read/Browse/Display Studios Page

**Studios**

| Studio ID | Studio Name | Founded Date | Edit | Delete |
|-----------|-------------|--------------|------|--------|
| 2 | Jane Doe Studios | 2/2/2006 | [Edit] | [Delete] |
| 4 | IMAX Studios | 6/3/2023 | [Edit] | [Delete] |

[Add Studio] [Return to Home]

Add Studio Page

**Add Studio**

Studio Name: [Enter Studio Name...]
Founded Date: [mm/dd/yyyy]
[Update]

Edit Studio Page

**Update Studio**

Studio Name: [Jane Doe Studios]
Founded Date: [mm/dd/yyyy]
[Update]

Delete Studio Page

**Delete Studio**

Are you sure you want to delete this Studio?

Delete

Read/Browse/Display Movies and Genres Page

**Movies and Genres**

| Movie ID | Movie Title | Genre ID | Genre Title | Delete |
|----------|-------------|----------|-------------|--------|
| 11 | Cars | 1 | Comedy | Delete |

Add Movie-Genre Association  |  Return to Home

Add Movie and Genre Page

**Add Movie Genre**

Movie: Select a movie ▾
Genre: Select a genre ▾
Add Movie Genre

Delete Movie and Genre Page

**Delete Movie-Genre Association**

Are you sure you want to delete this movie-genre association?

Delete