CS340 Basil Noor James Walter

Project Step 6 Final Film Fans Critique

Group 120 - Sequel Select

December 5th, 2022

URL to Project:

http://flip2.engr.oregonstate.edu:11165/

Please utilize Google Chrome to view Project

- Summary of Feedback -

Our team made various adjustments throughout the production of this project, ranging from changes to our project outline in the beginning to changes to the UX and our implementation of the UI pages on our website. All of our adjustments were made possible by the fantastic peer feedback we got along the way. We'll go over some of the most significant changes here.

During the early stages of the project, the emphasis was on developing an organized database design that would not cause problems later on. Our initial design sought to establish a 1:M relationship between 'Movies' and 'Genres,' with 'Genres' holding the foreign key (FK) for 'movie id.' However, this would cause issues in the future because we want various genres to be available for each movie, not vice versa. So we established a 'genre id' primary key instead and used it as a FK in the 'Movies' entity. We also chose to make the 'Genres' table nullable, so the attribute is no longer required and can be removed without affecting the 'Movies' entity. Finally, we changed the attribute names to make them more distinct and easier to deal with.

We made a few adjustments to the project's schema while developing it as well. We opted to include primary keys in our intersection tables since they would simplify deletion queries in the UI and allow for better organization. We also introduced a unique property to various characteristics, such as 'reviewer_email,' to prevent multiple reviewers from using the same email address. In addition, we changed the constraint values for several attributes, such as comments, from varchar (50) to varchar (250) to allow for more flexibility.

Similar to the design process, various changes were made to our initial plan as we proceeded to implement the database in our website. We had originally intended for the search functions to use the id values, such as movie id to find a movie. However, we adjusted this to search using the movie name attribute instead, with the movie id used in the backend to differentiate between them. This made the UI easier to use. We also changed our search from a textbox to a dropdown menu that collects all of the accessible ids in the database for the specific entity, making it much easier to sift through the database. Furthermore, to be more accurate, we split our ERD diagram and schema and eliminated the crow feet notation from the schema. Moreover, while constructing the DDL.sql file, we discovered that our original queries did not make use of renaming attributes, so we updated them to make it easier to work with later.

Additionally, we made various improvements during the UI implementation to improve clarity and make the website more pleasant to use. We updated the formatting to put the database table at the top of the page, so that the values of the entity are displayed first on each page. We also changed the delete text indicator to a button to make it stand out. Finally, for update queries, we removed the edit icon from each row in the entity and added a separate form at the bottom of each page.

- Project Outline -

Overview

We have been enthralled by what is possible on the big screen ever since the first moving picture 'Roundhay Garden Scene' by Le Prince. Since 1888, movies have been a mainstay of popular entertainment. Although a precise count is challenging, it has been estimated that 500,000 movies have been made since 1888. In addition, ~200 movies are released annually, with about 80 of those coming from major studios like Hollywood. With all of this in mind, choosing the best movie for a person's particular tastes from all of these options can be difficult. Not to mention that it's frequently quite subjective to evaluate works of art. It also doesn't help that when reading reviews on well-known websites like rotten tomatoes, the critic score frequently deviates from what viewers actually experience.

In light of this, our team Sequel Select, consisting of Basil Noor and James Walter, plan to engineer a database-driven website that will enable users to contribute reviews of various movies using a 5-star rating system. Users of this website can browse the list of films that have received reviews, read all of the comments, and look up the reviewers' backgrounds to determine whether or not their critique is well-founded. User's can also participate in reviewing any film of their choice by making an account. The end user can then read these reviews on the website and decide for themselves whether a specific movie is worthwhile to watch. Additionally, using our database, we will be able to suggest related films so that, in the event that a user enjoys one, we can suggest another of the same genre.

- Database Outline -

Movies - This entity represents the master database. A catalog containing all the movies that have been reviewed.

- movie_id: int, auto_increment, NOT NULL, PK
- name: varchar(250), NOT NULL
- genre_id: int, FK
- date_released: date, DEFAULT NULL
- box_office: bigint, DEFAULT NULL

Relationships:

- A 1:M relationship between Movies and Genres
 - Although technically a movie can have multiple genres we decided to simplify things and only allow one genre per movie. Thus, a movie can only have one genre, but each genre can be present in multiple movies.
- A M:M relationship between Movies and Reviewers through an intersection table
 Movie Reviews.
 - Multiple movies can be reviewed by the same reviewer and multiple reviewers can review the same movie. The intersection table facilitates this relationship and stores data for a specific movie review.
 - Movies has a **1:M** relationship with Movie_Reviews.
- A M:M relationship between Movies and Directors through an intersection table Movies_Directors
 - Movies can be directed by multiple people and each director can make multiple movies.

Directors - This entity holds all the information about the movie's directors.

- director_id: int, auto_increment, NOT NULL, PK
- director_fname: varchar(25), NOT NULL
- director_Iname: varchar(25), NOT NULL

Relationships:

- An M:M relationship between Movies and Directors through an intersection table Movies_Directors
 - Movies can be directed by multiple people and each director can make multiple movies.

Genres - This entity holds the different movie genres available.

- genre_id: int, PK
- genre: varchar(25), DEFAULT NULL

Relationships:

- An M:1 relationship between Genres and Movies
 - As stated previously in the Movies entity. We believe this is the best way to store the genres for a movie even if a movie can have multiple genres.

Reviewers - This entity represents a specific reviewer and their information.

- reviewer_id: int, auto_increment, NOT NULL, PK
- reviewer_fname: varchar(25), NOT NULL
- reviewer_Iname: varchar(25), NOT NULL
- reviewer_email: varchar(250), NOT NULL

Relationships:

- A M:M relationship between Reviewers and Movies through an intersection table Movie_Reviews.
 - Multiple movies can be reviewed by the same reviewer and multiple reviewers can review the same movie. The intersection table facilitates this relationship and also stores data for a specific movie review.
 - Reviewers has a **1:M** relationship with Movie_Reviews

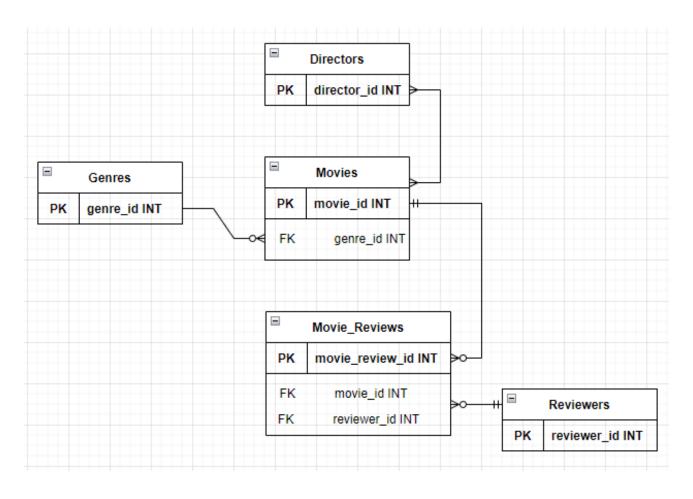
Movie_Reviews - This entity represents the transactional database that holds information on a specific movie review. It is the intersection table that facilitates the M:M relationship between Movies and Reviewers. Since it holds its own attributes it is also an entity.

- movie_review_id: int, auto_increment, NOT NULL, PK
- movie_id: int, NOT NULL, FK
- reviewer_id: int, NOT NULL, FK
- date_of_review: date, NOT NULL
- rating: int, NOT NULL,
- comment: varchar(2500), DEFAULT NULL

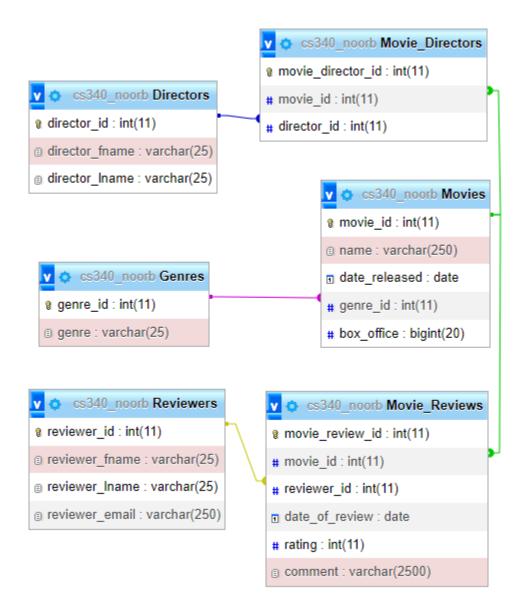
Relationships:

- A M:1 relationship between Movie_Reviews and Reviewers
 - Each review can have only one reviewer, but each reviewer can do multiple reviews.
- A M:1 relationship with Movie_Reviews and Movies
 - Each review can only link to one movie, but each movie can have multiple reviews.

- Entity-Relationship Diagram (ERD) -



- Normalized Schema -



- Sample Data -

Genres				
genre_id	genre			
1	Action			
2	Adventure			
3	Thriller			
4	Drama			
5	Sci-fi			

Directors						
director_id	director_fname	director_Iname				
1	Christopher	Nolan				
2	Bong	Joon-Ho				
3	Frank	Darabont				
4	Lana	Wachowski				
5	Lilly	Wachowski				

Movie_Directors				
movie_id	director_id			
1	1			
2	1			
3	2			
4	3			
5	4			
5	5			

Reviewers			
reviewer_id	reviewer_fname	reviewer_Iname	reviewer_email
1	John	Blank	jblank@gmail.com
2	Eren	Yeger	eyeger@gmail.com
3	Ben	Dover	bdover@gmail.com
4	Lily	Smith	Ismith@gmail.com

Movies				
movie_id	name	date_released	genre_id	box_office
1	The Dark Knight	2008-07-18	NULL	1,006,000,000
2	The Shawshank Redemption	1994-09-22	3	73,300,000
3	The Matrix	1999-03-24	2	467,200,01
3	Parasite	2019-10-05	NULL	NULL
3	Inception	2010-07-13	1	836800000

Movie_Reviews					
movie_review_id	movie_id	reviewer_id	date_of_review	rating	comment
1	1	1	2020-10-10	5	Absolutely loved this movie, 5/5 must watch'.
2	1	4	2021-05-05	4	Great film, but where's superman?'
3	4	2	2022-12-12	5	An classic movie that never dissappoints.'
4	3	2	2022-12-13	3	Great film, but the pacing could be improved.'

- Screen Captures -

Notice we removed the navbar from some screen captures for it to better fit the page

Homepage



By Sequel Select

Home | Movies | Genres | Movie Reviews | Movie Directors | Reviewers | Directors

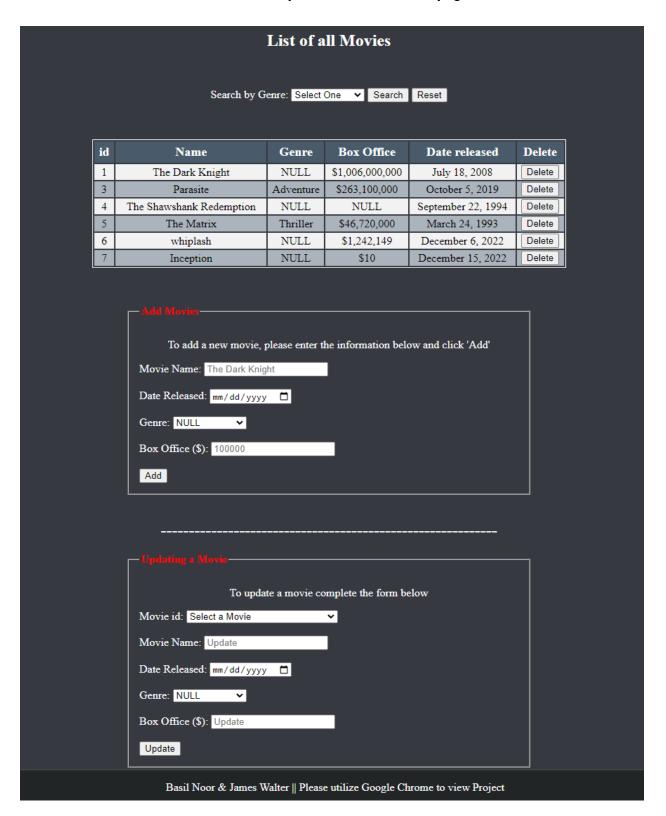
Welcome to the ultimate film review website

Our mission statement is to allows users to provide authentic film critiques so that it is easier to find films that we can all enjoy on our movie nights.



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Create/Read/Update/Delete - Movies page



Create/Read/Delete - Genres page

Film Fans Critique

By Sequel Select

Home | Movies | Genres | Movie Reviews | Movie Directors | Reviewers | Directors

List of Genres

id	Genre	Delete	
1	Action	Delete	
2	Adventure	Delete	
3	Thriller	Delete	
4	Drama	Delete	
5	Sci-fi	Delete	

To add a genre, enter the information below

Genre: Action

Add

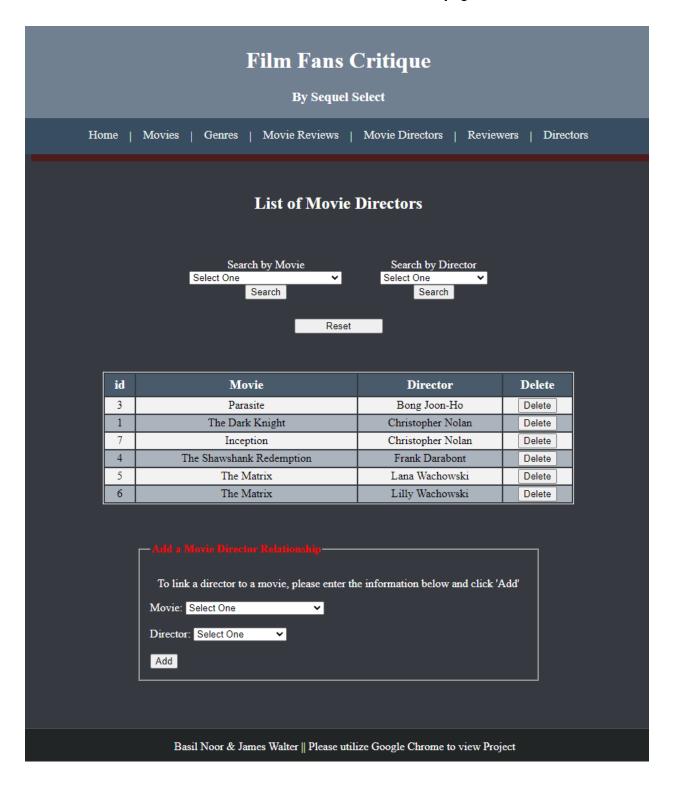
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Create/Read/Update/Delete - Movie Reviews page

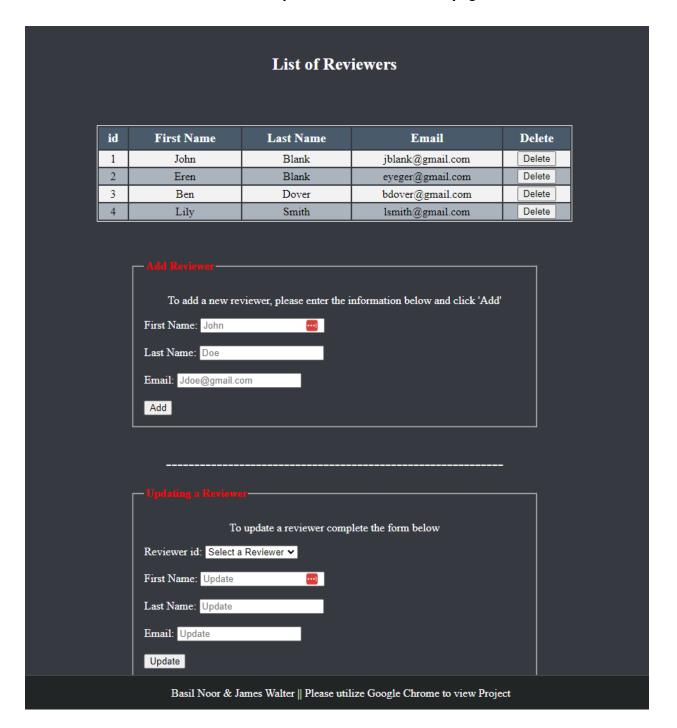
List of Movie Reviews Search by Movie Search by Reviewer Search by Rating (1-5) Select One Select One Search Search Search Reset Date id Movie Reviewer Rating Comment Delete Reviewed Absolutely loved this October 10, 1 The Dark Knight John Blank 5 Delete movie, 5/5 must watch 2020 Great film, but where is 2 The Dark Knight May 5, 2021 Delete Lily Smith superman? The Shawshank A Classic movie that never December 12, 3 5 Delete Eren Blank Redemption dissapoints 2022 Great film, but pacing December 13, Delete Parasite Eren Blank could be improved 2022 Want to add a movie review! Fill out your review for one of the movies in the database below. Before leaving a review please add yourself into our database in the 'Reviewers' page. If you do not see the movie you would liek to review, feel free to add it in the 'Movies' page. Movie id: Reviewer id: Date Reviewed: mm/dd/yyyy Rating: Comment: Add

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Create/Read/Delete - Movie Directors page



Create/Read/Update/Delete - Reviewers page



Create/Read/Update/Delete - Directors page

Film Fans Critique					
	В	y Sequel Select			
Home	Movies Genres Movie R	eviews Movie Directors Ro	eviewers Directors		
	Lis	t of Directors			
	Search by Last Name:	Search Re	set		
id	First Name	Last Name	Delete		
1	Christopher	Nolan	Delete		
2	Bong	Joon-Ho	Delete		
3	Frank	Darabont	Delete		
4	Lana	Wachowski	Delete		
5	Lilly	Wachowski	Delete		
To add a new director, please enter the information below and click 'Add' First Name: Christopher Last Name: Nolan Add Liphting a Brocker To update a director complete the form below Director id: Select a Director First Name: Update Last Name: Update Update					
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