VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi: 590 018

A Database Management Systems Mini Project report on

"MOVIE DATABASE MANAGEMENT SYSTEM"

Submitted in partial fulfillment of the requirement for the award of Degree of

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING

By

SOUMY JAIN 1AY21CS185

VIBHA RAVINDRA HEGDE 1AY21CS205

Under the guidance of

Prof. Kamala K

Assistant Professor

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACHARYA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi)

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ACHARYA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi) Soladevanahalli, Bangalore – 560090

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

Certified that the Database Management Systems mini project entitled **"MOVIE DATABASE MANAGEMENT SYSTEM"** is a bonafide work carried out by **SOUMY JAIN(1AY21CS185), VIBHA RAVINDRA HEGDE(1AY21CS205)** of 5th semester in partial fulfillment for the award of degree of **Bachelor of Engineering in Computer Science & Engineering of the Visvesvaraya Technological University**, **Belagavi**, during the year **2023-2024.** It is certified that all corrections suggestions indicated for internal assessments have been incorporated in the Report deposited in the departmental library. The Mini Project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the **Bachelor of Engineering Degree**.

…….

Signature of Guide:

Prof. Kamala K**,**
Assistant Professor,
Dept of Computer Science,
Acharya Institute of
Technology

…….

Signature of HOD:

Dr. Ajith Padyana,
Head of the department,
Dept of Computer Science,
Acharya Institute of
Technology

Name of the examiners **Signature with date**

1.

2.

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ABSTRACT

The Movie Database Management System mini-project aims to design and develop a comprehensive platform for managing and accessing movie-related information efficiently. This system addresses the need for a centralized repository that facilitates seamless storage, retrieval, and organization of diverse data related to movies. Through a user-friendly interface, users can explore extensive collections of movies, including details such as titles, genres, release dates, cast information, director name and ratings. Utilizing advanced search and filtering functionalities, users can easily locate specific movies based on various criteria. It supports collaborative contributions, allowing users to submit reviews, ratings, and corrections to enrich the database. The Movie Database System is designed to be scalable, accommodating an ever-expanding catalog of movies and evolving user requirements. Implementation involves leveraging modern technologies and frameworks for robustness, reliability, and performance optimization. Through this project, the aim is to streamline movie-related information management, enhance user engagement, and foster a vibrant community around cinema appreciation and exploration.

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SOUMY JAIN 1AY21CS185

VIBHA RAVINDRA HEGDE 1AY21CS205

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CHAPTER 1

INTRODUCTION

1.1 Introduction to database management system

Databases are integral to the widespread use of computers, impacting various fields such as business, e-commerce, engineering, medicine, genetics, law, education, and library science. When discussing databases, it's essential to first define the term. While one could argue that any collection of related data constitutes a database, the term is typically used more narrowly.

A database, in essence, represents a slice of the real world, often referred to as the “mini world” or the “universe of discourse”. It reflects changes occurring in the real world and contains a logically organized collection of data with inherent meaning. Unlike a random assortment of data, a true database is purposefully designed, constructed, and populated for specific uses, with intended users and applications in mind.

In today's movie world, there's a big need for a better way to manage and find information about movies. Whether you're someone who loves watching movies or you work in the industry, having all the details in one place is really important. That's where the Movie Database System comes in. It's like a giant library for movies that collects and organizes tons of information in an easy-to-use way.

The Movie Database is not merely a passive repository of information but a dynamic platform that fosters community engagement and collaboration. Users can contribute to the database by submitting corrections, thereby enriching the content and enhancing the overall user experience. This collaborative approach not only ensures the accuracy and relevance of the data but also cultivates a sense of community among movie enthusiasts, fostering discussions, and shared appreciation for cinema.

CHAPTER 2

SYSTEM REQUIREMENTS SPECIFICATION

2.1 Functional Requirements

The specific functional requirements of the Movie Details Page are stated as follows:

- Search and Browse: The system allows users to search for movies based on various criteria such as title, genre, release date, actor, director, etc.
- Movie Details: Users should be able to view detailed information about each movie including cast, runtime, ratings, movie poster and trailers.
- User Reviews and Ratings: Users has the ability to rate movies, and these reviews should be visible to other users.
- Data Import/Export: The system supports importing movie data from external sources and exporting data for backup or analysis purposes.
- Add/Edit/Delete Movies: Admins should be able to add, edit, and delete movie entries including all associated data.
- User Interaction: Users should be able to interact with the system through intuitive interfaces.

2.2 Non-Functional Requirements

The specific non-functional requirements of the Movie Details Page are stated as follows:

- Reliability: Database updating should follow transaction processing to avoid data inconsistency.
- Availability: The project will be deployed on a public shared server so it will be available all the time and will be accessible anywhere of the world using internet.
- Maintainability: It is very easy to maintain the system. The system has been developed on PHP so anyone who has the knowledge of PHP, can easily maintain the system.
- Portability: This system is portable and we can switch the servers very easily.
- Browser capability: The project being web based required compatibility with at least the popular web browsers. Microsoft windows XP and above, Linux and Macintosh being the current popular operating system and Microsoft Internet Explorer, Mozilla Firefox, Opera, Safari and Google Chrome being the currently popular web browser.

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SYSTEM REQUIREMENTS SPECIFICATION

2.2 Non-Functional Requirements

2.2.1 Hardware Requirement

Processor : Intel PentiumT4200/ Intel Core Duo 2.0 GHz / more RAM : Minimum 1GB RAM capacity

Hard disk : Minimum 40 GB ROM capacity Cache Memory : L2-1 MB

GPU : Intel HD Graphics/AMD RADEON Graphics

2.2.2 Software Requirement

Front End : PHP (Hypertext preprocessor), HTML, CSS, JavaScript Back End : XAMPP server, My SQL

Operation System : Windows 10

2.3 About Technologies used

- **HTML (Hypertext Markup Language):** HTML is the backbone of web pages. It's used to structure the content of a webpage, including text, images, and links. It provides the basic structure and layout for displaying information on the web. HTML uses tags to define different elements like headings, paragraphs, lists, and more.

- **CSS (Cascading Style Sheets):** CSS is used to style the appearance of web pages. It controls how HTML elements are displayed on the screen or other media. With CSS, you can change things like colors, fonts, spacing, and layout to make your webpage visually appealing and user-friendly.

- **MySQL:** MySQL is a database management system. It's used to store and manage data in a structured format. MySQL allows you to create, read, update, and delete data in a database. It's commonly used for web applications to store user information, product details, and other types of data.

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SYSTEM REQUIREMENTS SPECIFICATION

2.4 About Technologies used

- **XAMPP:** XAMPP is a software bundle that includes several components needed for web development. The name stands for Cross-platform (X), Apache (A), MySQL (M), PHP (P), and Perl (P). It's a convenient way to set up a local web server environment on your computer for testing and development purposes.

- **Apache:** Apache is a web server software that serves web pages to users who request them. It's the software that handles HTTP requests from web browsers and delivers web pages and other web content to the users' computers.

- **React:** . React is a free and open-source front-end JavaScript library for building user interfaces based on components. It is maintained by Meta and a community of individual developers and companies. React can be used to develop single-page, mobile, or server-rendered applications with frameworks like Next.js

CHAPTER 3

SYSTEM DESIGN

3.1 ER DIAGRAM

Fig 3.1 consists of entities Movies, Actors, MovieActors, and Reviews, and each entity has attributes of its own. For example, Movies table consists of attributes movie_id, title, release_year ,genre etc represented using an oval shape. Some of the attributes in the table are underlined because it is identified as primary key for that entity, and the relationship are represented using diamond shape, which describes the relation among the entities.

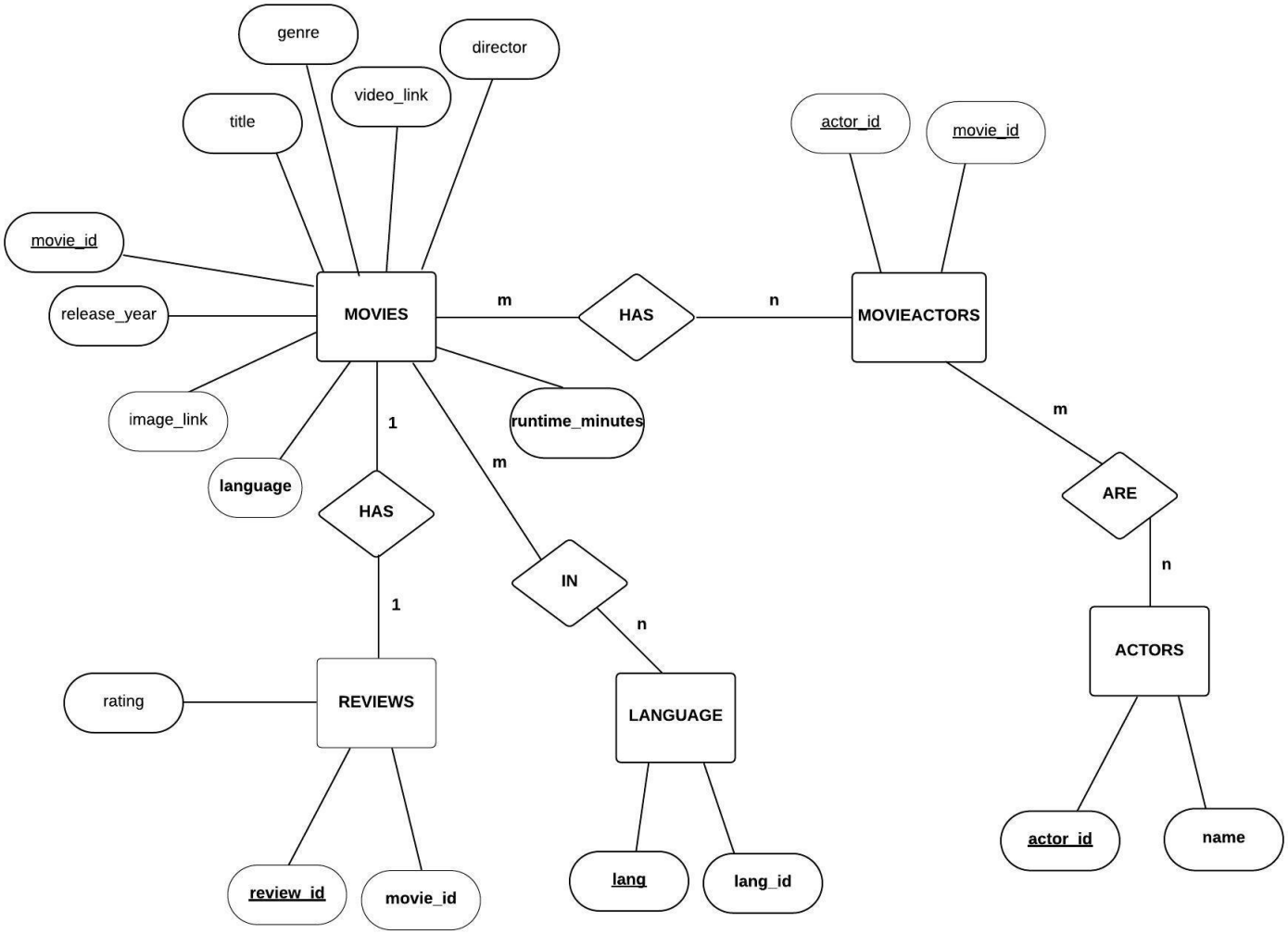


Fig 3.1 ER Diagram

3.2 SCHEMA DIAGRAM

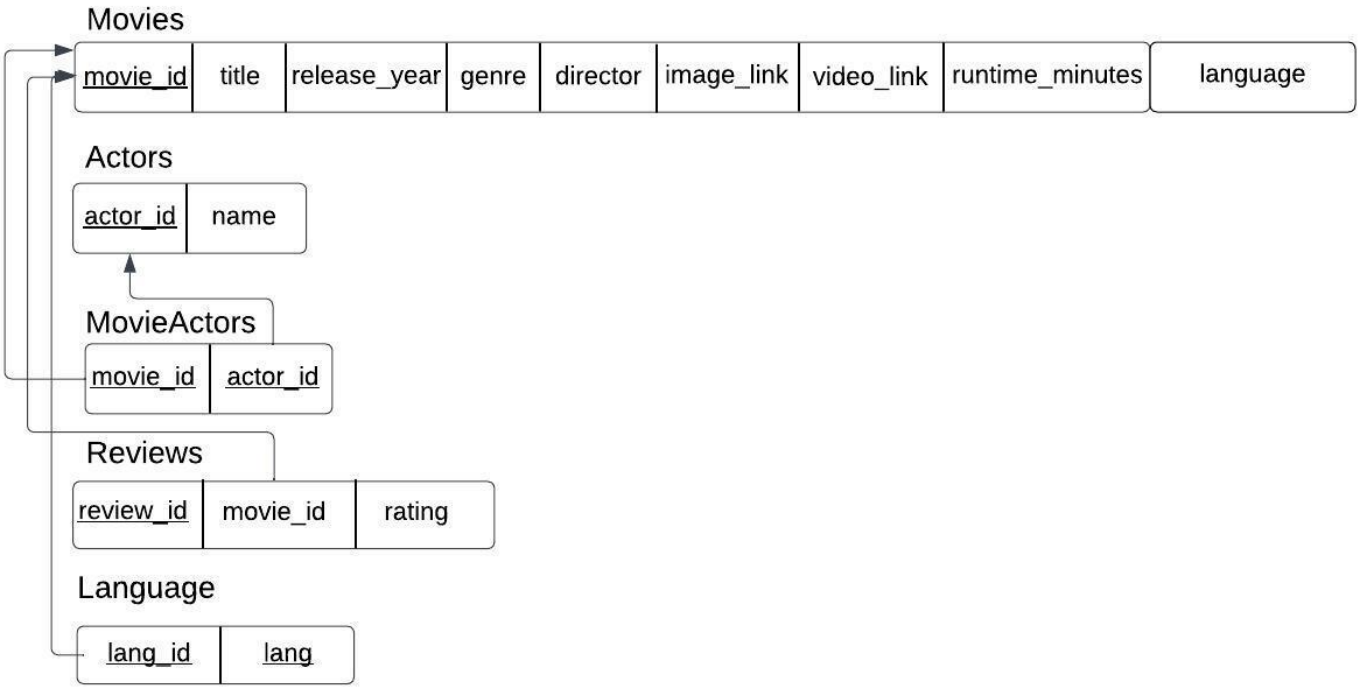


Fig 3.2: Schema Diagram

In Fig 3.2 the schema diagram of Movie Details Page database system where each table has attributes and some attributes are underlined, it is called primary key and this primary key is referred in another table as foreign key and this representation is done with the schema diagram as shown in figure. For example, for the entity movies movie_id is primary key and it is used as foreign key in tables MovieActors and Reviews.

CHAPTER 4

SYSTEM IMPLEMENTATION

4.1 Implementation

Implementation is the stage in the project where the theoretical design is turned into a working system and is giving confidence on the new system for the users that it will work efficiently and effectively. It involves careful planning, investigation of the current system and its constraints on implementation, design of methods to achieve the changeover, an evaluation of change over methods.

4.2 Creation of Tables

Tables created:

- Movies
- Actors
- MovieActors
- Reviews
- Language

4.2.1 Movies

```
CREATE TABLE Movies (
    movie_id INT AUTO_INCREMENT PRIMARY KEY,
    title VARCHAR(255) NOT NULL,
    release_year INT,
    genre VARCHAR(100),
    image_link VARCHAR(255),
    director VARCHAR(255),
    video_link VARCHAR(255),
    runtime_minutes INT,
    language varchar(10)
);
```

`

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	movie_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	title	varchar(255)	latin1_swedish_ci		No	None			Change Drop More
3	release_year	int(11)			Yes	NULL			Change Drop More
4	genre	varchar(100)	latin1_swedish_ci		Yes	NULL			Change Drop More
5	image_link	varchar(255)	latin1_swedish_ci		Yes	NULL			Change Drop More
6	director	varchar(255)	latin1_swedish_ci		Yes	NULL			Change Drop More
7	video_link	varchar(255)	latin1_swedish_ci		Yes	NULL			Change Drop More
8	runtime_minutes	int(11)			Yes	NULL			Change Drop More
9	language	varchar(15)	latin1_swedish_ci		No	None			Change Drop More

4.2.1: Creation of Movies Table

4.2.2 Actors

```
CREATE TABLE Actors (
   actor_id INT AUTO_INCREMENT PRIMARY KEY,
   name VARCHAR(255) NOT NULL
);
```

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	actor_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	name	varchar(255)	latin1_swedish_ci		No	None			Change Drop More

Figure 4.2.2: Creation of Actors Table

4.2.3 MovieActors

```
CREATE TABLE MovieActors (
    movie_id INT,
    actor_id INT,
    PRIMARY KEY (movie_id, actor_id),
    FOREIGN KEY (movie_id) REFERENCES Movies(movie_id),
    FOREIGN KEY (actor_id) REFERENCES Actors(actor_id)
);
```

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	movie_id	int(11)			No	None			Change Drop More
2	actor_id	int(11)			No	None			Change Drop More

Figure 4.2.3: Creation of MovieActors Table

4.2.4 Reviews

```
CREATE TABLE Reviews (
   review_id INT AUTO_INCREMENT PRIMARY KEY,
   movie_id INT,
   rating DECIMAL(3,1),
   FOREIGN KEY (movie_id) REFERENCES Movies(movie_id)
);
```

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	review_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	movie_id	int(11)			Yes	NULL			Change Drop More
3	rating	decimal(3,1)			Yes	NULL			Change Drop More

Figure 4.2.4: Creation of Reviews Table

4.2.5 Language

```
CREATE TABLE Language (
   lang varchar(10),
   lang_id INT,
   PRIMARY KEY (lang)
);
```

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	lang	varchar(10)	latin1_swedish_ci		No	None			Change Drop More
2	lang_id	int(10)			No	None			Change Drop More

Figure 4.2.5: Creation of Language Table

`

4.3. Insertion of Values:

4.3.1 Movies

	movie_id	title	release_year	genre	image_link	director	video_link	runtime_minutes
Edit Copy Delete	1	The Shawshank Redemption	1994	Drama	https://blogthegoodwill.files.wordpress.com/2023/0...	Frank Darabont	https://youtu.be/PLI99DIL6b4?feature=shared	142
Edit Copy Delete	2	Deadpool	2016	Comedy	https://upload.wikimedia.org/wikipedia/en/2/23/Dea...	Tim Miller	https://youtu.be/Xithigfg7dA?feature=shared	108
Edit Copy Delete	3	Forrest Gump	1994	Drama	https://th.bing.com/th/id/R.2df11803b12b750e504ff3...	Robert Zemeckis	https://youtu.be/bLvqoHBptjg?feature=shared	142
Edit Copy Delete	4	La La Land	2016	Romance	https://m.media-amazon.com/images/M/MV5BMzUzNDM2Nz...	Damien Chazelle	https://youtu.be/lu4RHvouJH8?feature=shared	128
Edit Copy Delete	5	The Godfather	1972	Drama	https://upload.wikimedia.org/wikipedia/en/a/af/The...	Francis Ford Coppola	https://youtu.be/UaVTIH8mujA?feature=shared	175

Fig 4.3.1 Movies

4.3.2 Actors

	actor_id	name
Edit Copy Delete	1	Tim Robbins
Edit Copy Delete	2	Ryan Renolds
Edit Copy Delete	3	Tom Hanks
Edit Copy Delete	4	Ryan Gosling

Fig 4.3.2 Actors

4.3.3 MovieActors

	movie_id	actor_id
Edit Copy Delete	1	1
Edit Copy Delete	2	2
Edit Copy Delete	3	3
Edit Copy Delete	4	4
Edit Copy Delete	4	5
Edit Copy Delete	5	6

Fig 4.3.3 MovieActors

4.3.4 Reviews

		review_id	movie_id	rating
Edit Copy Delete		1	1	9.3
Edit Copy Delete		2	3	9.4
Edit Copy Delete		3	5	9.2
Edit Copy Delete		4	17	8.4
Edit Copy Delete		5	28	8.1

Fig 4.3.4 Reviews

4.3.5 Language

Showing rows 0 - 3 (4 total, Query took 0.0005 seconds.) [lang_id: **4...** - **1...**]

```
SELECT * FROM `language` ORDER BY `lang_id` DESC
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

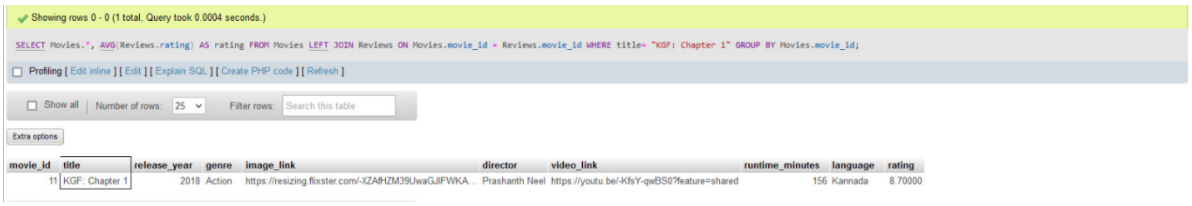
Extra options

lang	lang_id 1
Tamil	4
Kannada	3
Hindi	2
English	1

Fig 4.3.5 Language

4.4 Queries

4.41 To retrieve movie details by name



Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

```
SELECT Movies.*, AVG(Reviews.rating) AS rating FROM Movies LEFT JOIN Reviews ON Movies.movie_id = Reviews.movie_id WHERE title= "KGF: Chapter 1" GROUP BY Movies.movie_id;
```

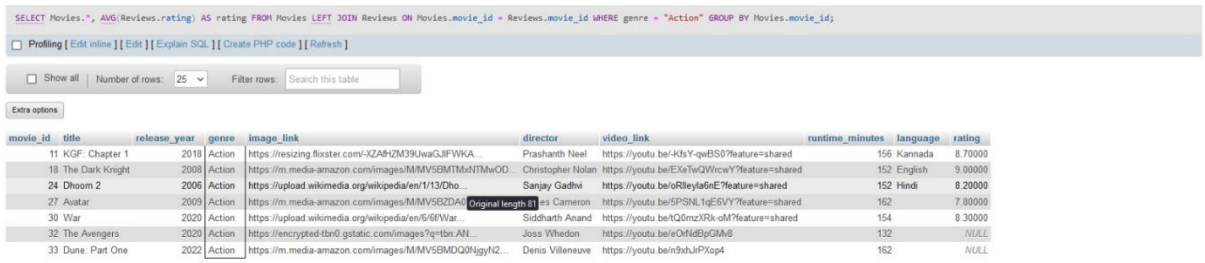
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

movie_id	title	release_year	genre	image_link	director	video_link	runtime_minutes	language	rating
11	KGF: Chapter 1	2018	Action	https://resizing.flixster.com/-XZAfHZM39UwaGJIFWKA...	Prashanth Neel	https://youtu.be/-KfsY-qwBS0?feature=shared	156	Kannada	8.70000

4.42 To retrieve movies by genre



```
SELECT Movies.*, AVG(Reviews.rating) AS rating FROM Movies LEFT JOIN Reviews ON Movies.movie_id = Reviews.movie_id WHERE genre = "Action" GROUP BY Movies.movie_id;
```

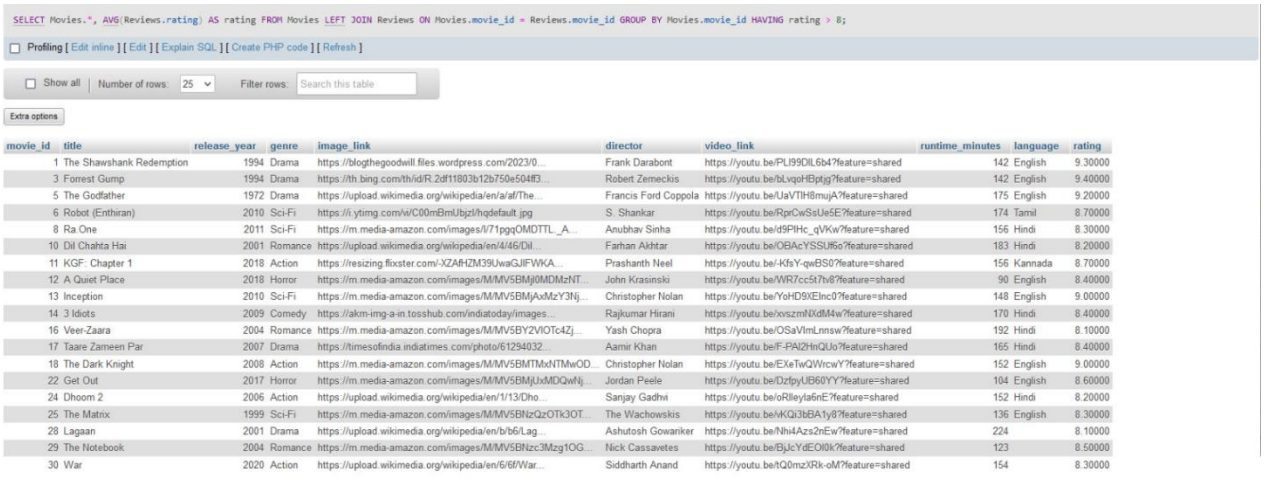
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

movie_id	title	release_year	genre	image_link	director	video_link	runtime_minutes	language	rating
11	KGF: Chapter 1	2018	Action	https://resizing.flixster.com/-XZAfHZM39UwaGJIFWKA...	Prashanth Neel	https://youtu.be/-KfsY-qwBS0?feature=shared	156	Kannada	8.70000
18	The Dark Knight	2008	Action	https://m.media-amazon.com/images/M/MV5BMTMxNTMwOD...	Christopher Nolan	https://youtu.be/EXeTwQWrcwY?feature=shared	152	English	9.00000
24	Dhoom 2	2006	Action	https://upload.wikimedia.org/wikipedia/en/1/13/Dho...	Sanjay Gadhvi	https://youtu.be/oRlleyla6nE?feature=shared	152	Hindi	8.20000
27	Avatar	2009	Action	https://m.media-amazon.com/images/M/MV5BZDA0 Original length 81	es Cameron	https://youtu.be/5PSNL1qE6VY?feature=shared	162		7.80000
30	War	2020	Action	https://upload.wikimedia.org/wikipedia/en/6/6f/War...	Siddharth Anand	https://youtu.be/tQ0mzXRk-oM?feature=shared	154		8.30000
32	The Avengers	2020	Action	https://encrypted-tbn0.gstatic.com/images?q=tbn:AN...	Joss Whedon	https://youtu.be/eOrNdBpGMv8	132		NULL
33	Dune: Part One	2022	Action	https://m.media-amazon.com/images/M/MV5BMDQ0NjgyN2...	Denis Villeneuve	https://youtu.be/n9xhJrPXop4	162		NULL

4.43 To retrieve movie Details based on rating



```
SELECT Movies.*, AVG(Reviews.rating) AS rating FROM Movies LEFT JOIN Reviews ON Movies.movie_id = Reviews.movie_id GROUP BY Movies.movie_id HAVING rating > 8;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

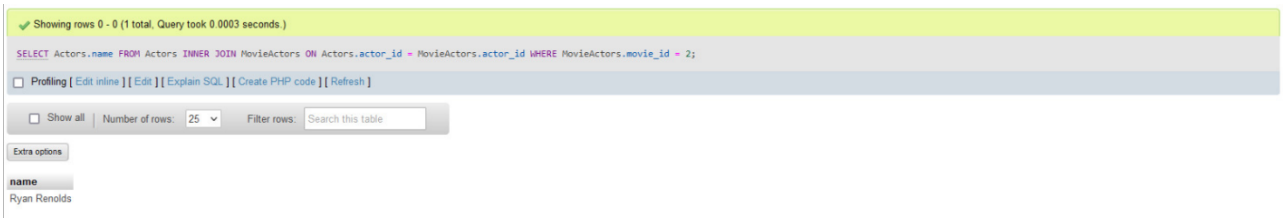
Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

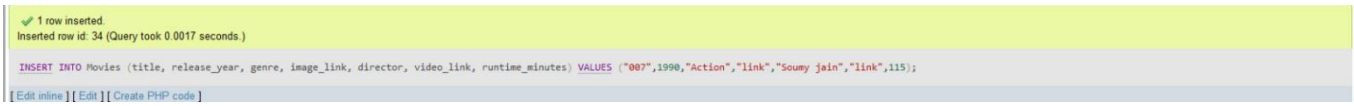
movie_id	title	release_year	genre	image_link	director	video_link	runtime_minutes	language	rating
1	The Shawshank Redemption	1994	Drama	https://blogthegoodwill.files.wordpress.com/2023/0...	Frank Darabont	https://youtu.be/PLI99OIL6b4?feature=shared	142	English	9.30000
3	Forrest Gump	1994	Drama	https://th.bing.com/th/id/R.2df11803b12b750e504ff3...	Robert Zemeckis	https://youtu.be/bLvqoHBptjg?feature=shared	142	English	9.40000
5	The Godfather	1972	Drama	https://upload.wikimedia.org/wikipedia/en/a/af/The...	Francis Ford Coppola	https://youtu.be/UaVTIH8mujA?feature=shared	175	English	9.20000
6	Robot (Enthiran)	2010	Sci-Fi	https://i.ytimg.com/vi/C00mBmUbjzI/hqdefault.jpg	S. Shankar	https://youtu.be/RprCwSsUe5E?feature=shared	174	Tamil	8.70000
8	Ra.One	2011	Sci-Fi	https://m.media-amazon.com/images/I/71pgqOMDTTL._A...	Anubhav Sinha	https://youtu.be/d9PIHc_qVKw?feature=shared	156	Hindi	8.30000
10	Dil Chahta Hai	2001	Romance	https://upload.wikimedia.org/wikipedia/en/4/46/Dil...	Farhan Akhtar	https://youtu.be/OBAcYSSUf6o?feature=shared	183	Hindi	8.20000
11	KGF: Chapter 1	2018	Action	https://resizing.flixster.com/-XZAfHZM39UwaGJIFWKA...	Prashanth Neel	https://youtu.be/-KfsY-qwBS0?feature=shared	156	Kannada	8.70000
12	A Quiet Place	2018	Horror	https://m.media-amazon.com/images/M/MV5BMjI0MDMzNT...	John Krasinski	https://youtu.be/WR7cc5t7tv8?feature=shared	90	English	8.40000
13	Inception	2010	Sci-Fi	https://m.media-amazon.com/images/M/MV5BMjAxMzY3Nj...	Christopher Nolan	https://youtu.be/YoHD9XEInc0?feature=shared	148	English	9.00000
14	3 Idiots	2009	Comedy	https://akm-img-a-in.tosshub.com/indiatoday/images...	Rajkumar Hirani	https://youtu.be/xvszmNXdM4w?feature=shared	170	Hindi	8.40000
16	Veer-Zaara	2004	Romance	https://m.media-amazon.com/images/M/MV5BY2VlOTc4Zj...	Yash Chopra	https://youtu.be/OSaVImLnnsw?feature=shared	192	Hindi	8.10000
17	Taare Zameen Par	2007	Drama	https://timesofindia.indiatimes.com/photo/61294032...	Aamir Khan	https://youtu.be/lF-PAI2HnQUo?feature=shared	165	Hindi	8.40000
18	The Dark Knight	2008	Action	https://m.media-amazon.com/images/M/MV5BMTMxNTMwOD...	Christopher Nolan	https://youtu.be/EXeTwQWrcwY?feature=shared	152	English	9.00000
22	Get Out	2017	Horror	https://m.media-amazon.com/images/M/MV5BMjUxMDQwNj...	Jordan Peele	https://youtu.be/DzfpyUB60YY?feature=shared	104	English	8.60000
24	Dhoom 2	2006	Action	https://upload.wikimedia.org/wikipedia/en/1/13/Dho...	Sanjay Gadhvi	https://youtu.be/oRlleyla6nE?feature=shared	152	Hindi	8.20000
25	The Matrix	1999	Sci-Fi	https://m.media-amazon.com/images/M/MV5BNzQzOTk3OT...	The Wachowskis	https://youtu.be/vKQi3bBA1y8?feature=shared	136	English	8.30000
28	Lagaan	2001	Drama	https://upload.wikimedia.org/wikipedia/en/b/b6/Lag...	Ashutosh Gowariker	https://youtu.be/INhi4Azs2nE?feature=shared	224		8.10000
29	The Notebook	2004	Romance	https://m.media-amazon.com/images/M/MV5BNzc3Mzg1OG...	Nick Cassavetes	https://youtu.be/BjJcYdEOI0k?feature=shared	123		8.50000
30	War	2020	Action	https://upload.wikimedia.org/wikipedia/en/6/6f/War...	Siddharth Anand	https://youtu.be/tQ0mzXRk-oM?feature=shared	154		8.30000

`

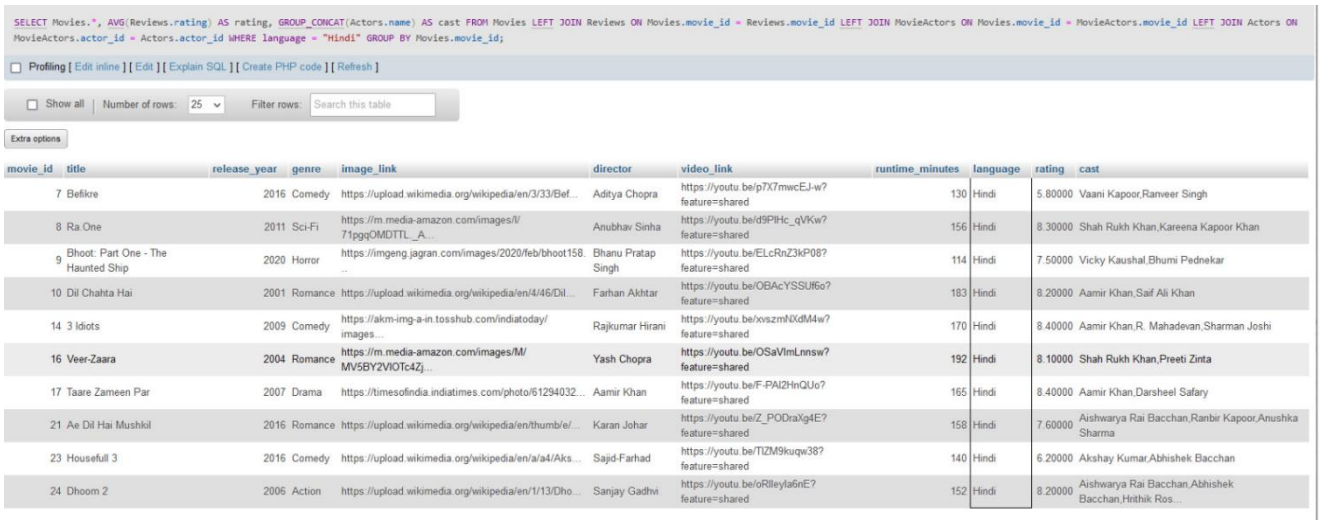
4.44 To retrieve cast of the movie



4.45 To insert new movie details to database



4.46 To Retrieve movie details from language



movie_id	title	release_year	genre	image_link	director	video_link	runtime_minutes	language	rating	cast
7	Befikre	2016	Comedy	https://upload.wikimedia.org/wikipedia/en/3/33/Bef...	Aditya Chopra	https://youtu.be/p7X7mwcEJ-w?feature=shared	130	Hindi	5.80000	Vaani Kapoor,Ranveer Singh
8	Ra.One	2011	Sci-Fi	https://m.media-amazon.com/images/I/71pgqOMDTTL._A...	Anubhav Sinha	https://youtu.be/d9PlHc_qVKw?feature=shared	156	Hindi	8.30000	Shah Rukh Khan,Kareena Kapoor Khan
9	Bhoot: Part One - The Haunted Ship	2020	Horror	https://imgeng.jagran.com/images/2020/feb/bhoot158...	Bhanu Pratap Singh	https://youtu.be/ELcRnZ3kP08?feature=shared	114	Hindi	7.50000	Vicky Kaushal,Bhumi Pednekar
10	Dil Chahta Hai	2001	Romance	https://upload.wikimedia.org/wikipedia/en/4/46/Dil...	Farhan Akhtar	https://youtu.be/OBAcYSSUf6o?feature=shared	183	Hindi	8.20000	Aamir Khan,Saif Ali Khan
14	3 Idiots	2009	Comedy	https://akm-img-a-in.tosshub.com/indiatoday/images...	Rajkumar Hirani	https://youtu.be/xvszmNXdM4w?feature=shared	170	Hindi	8.40000	Aamir Khan,R. Mahadevan,Sharman Joshi
16	Veer-Zaara	2004	Romance	https://m.media-amazon.com/images/M/MV5BY2VlOTc4Zj...	Yash Chopra	https://youtu.be/OSaVlmLnnsw?feature=shared	192	Hindi	8.10000	Shah Rukh Khan,Preeti Zinta
17	Taare Zameen Par	2007	Drama	https://timesofindia.indiatimes.com/photo/61294032...	Aamir Khan	https://youtu.be/F-PAI2HnQUo?feature=shared	165	Hindi	8.40000	Aamir Khan,Darsheel Safary
21	Ae Dil Hai Mushkil	2016	Romance	https://upload.wikimedia.org/wikipedia/en/thumb/e/...	Karan Johar	https://youtu.be/Z_PODraXg4E?feature=shared	158	Hindi	7.60000	Aishwarya Rai Bacchan,Ranbir Kapoor,Anushka Sharma
23	Housefull 3	2016	Comedy	https://upload.wikimedia.org/wikipedia/en/a/a4/Aks...	Sajid-Farhad	https://youtu.be/TlZM9kuqw38?feature=shared	140	Hindi	6.20000	Akshay Kumar,Abhishek Bacchan
24	Dhoom 2	2006	Action	https://upload.wikimedia.org/wikipedia/en/1/13/Dho...	Sanjay Gadhvi	https://youtu.be/oRIleyfa6nE?feature=shared	152	Hindi	8.20000	Aishwarya Rai Bacchan,Abhishek Bacchan,Hrithik Ros...

`

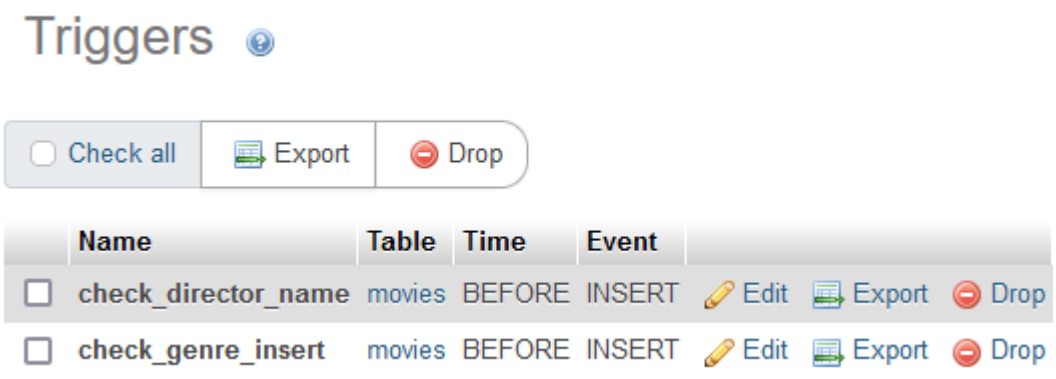
4.5 Trigger

This Trigger will check that the Director name is Alphabet or not before inserting new movie details

```
ELIMITER //
CREATE TRIGGER check_director_name
BEFORE INSERT ON Movies
FOR EACH ROW
BEGIN
   DECLARE director_name_valid BOOLEAN;
   SET director_name_valid = TRUE;

   -- Check if director name contains only alphabetic characters
   IF NOT NEW.director REGEXP '^[A-Za-z ]+$' THEN
      SET director_name_valid = FALSE;
   END IF;

   -- Raise an error if director name is not alphabetical
   IF NOT director_name_valid THEN
      SIGNAL SQLSTATE '45000'
      SET MESSAGE_TEXT = 'Director name must contain only alphabetical characters';
   END IF;
END;
//
DELIMITER ;
```



4.6 Front-End Details

REACT:

React is a free and open-source front-end JavaScript library for building user interfaces based on components. It is maintained by Meta and a community of individual developers and companies. React can be used to develop single-page, mobile, or server-rendered applications with frameworks like Next.js

HTML:

HTML or Hyper Text Markup Language is the standard markup language used to create web pages.HTML is written in the form of HTML elements consisting of tags enclosed in angle brackets (like <html>). HTML tags most commonly come in pairs like <h1> and </h1>, although some tags represent empty elements and so are unpaired, for example <img>. The first tag in a pair is the start tag, and the second tag is the end tag (they are also called opening tags and closing tags). The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page. HTML describes the structure of a website semantically along with cues for presentation, making it a markup language rather than a programming language.

CSS:

Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a markup language.

CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content.

JAVASCRIPT:

JavaScript (JS) is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed. It is also being used in server-side network programming (with Node.js), game development and the creation of desktop and mobile applications.

CHAPTER 5

RESULTS AND DISCUSSIONS

5.1 Home Page

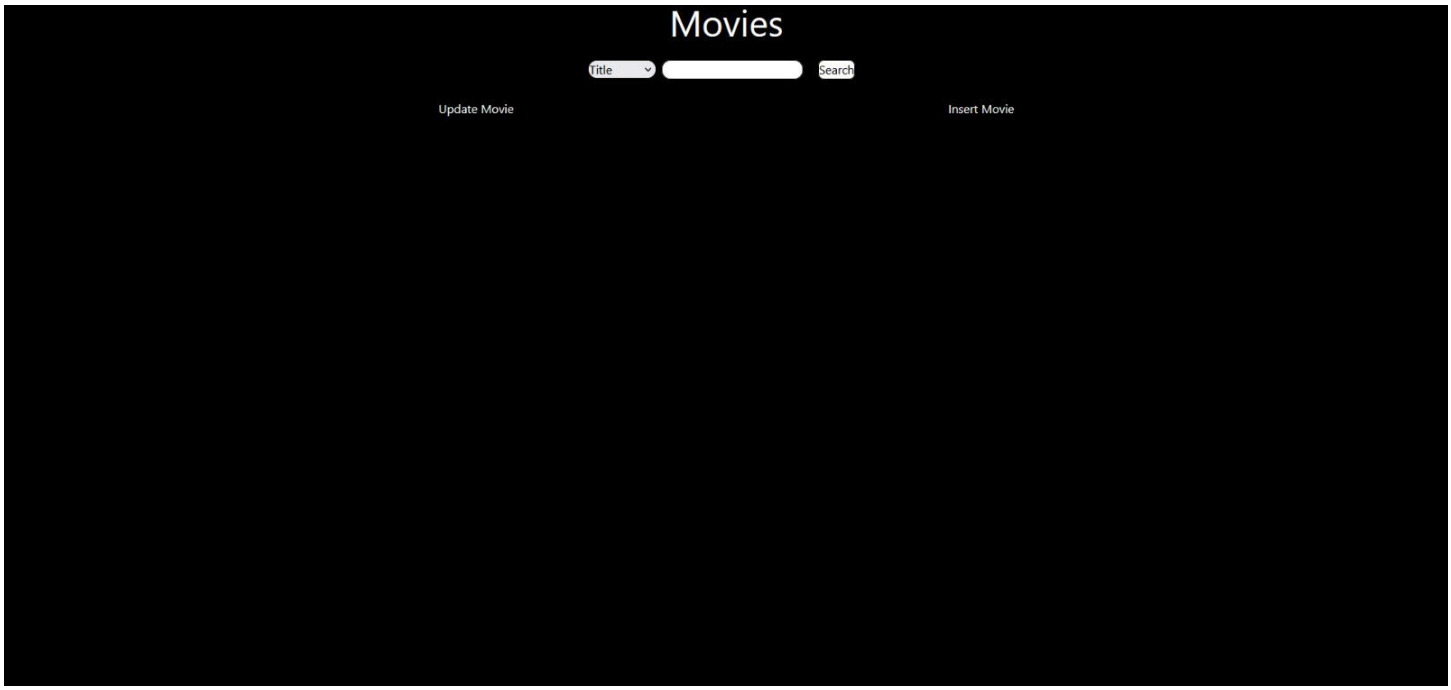


Fig 5.1 Home Page

5.2 Results of movie title search

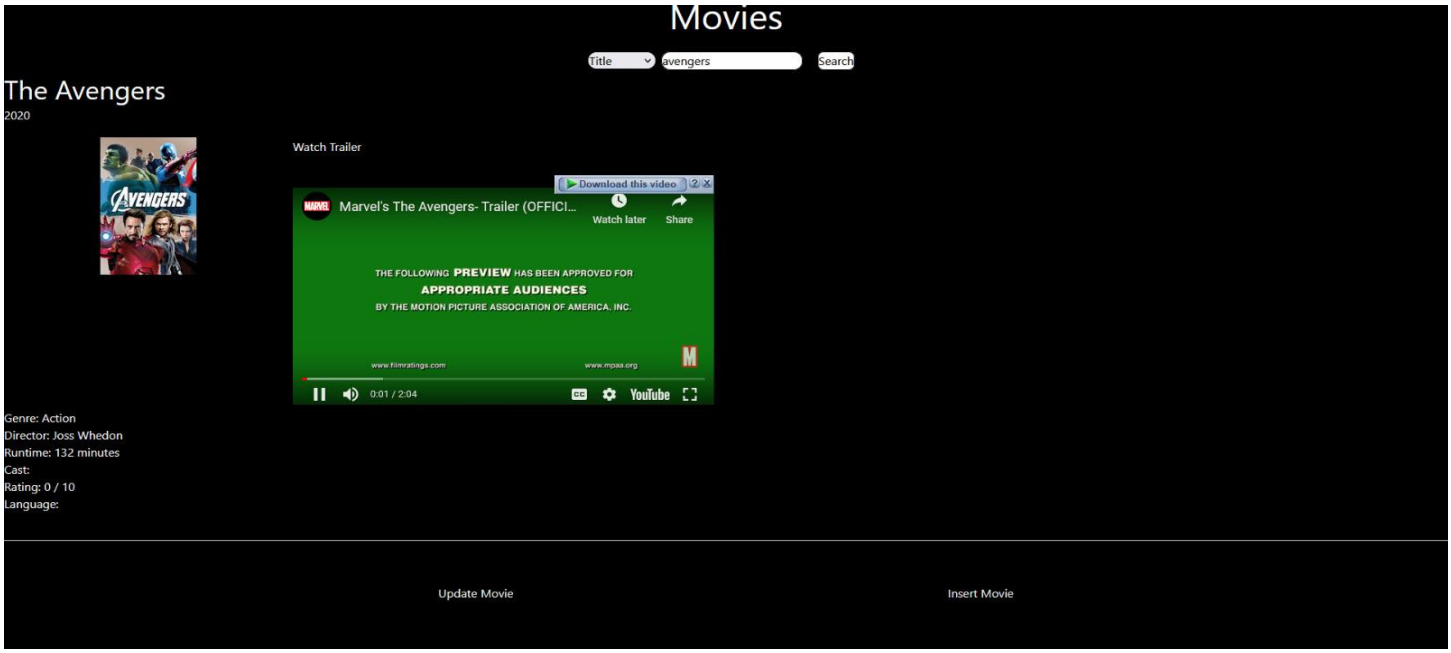


Fig 5.2 Movie Title Search

`

5.3 Results of particular genre search

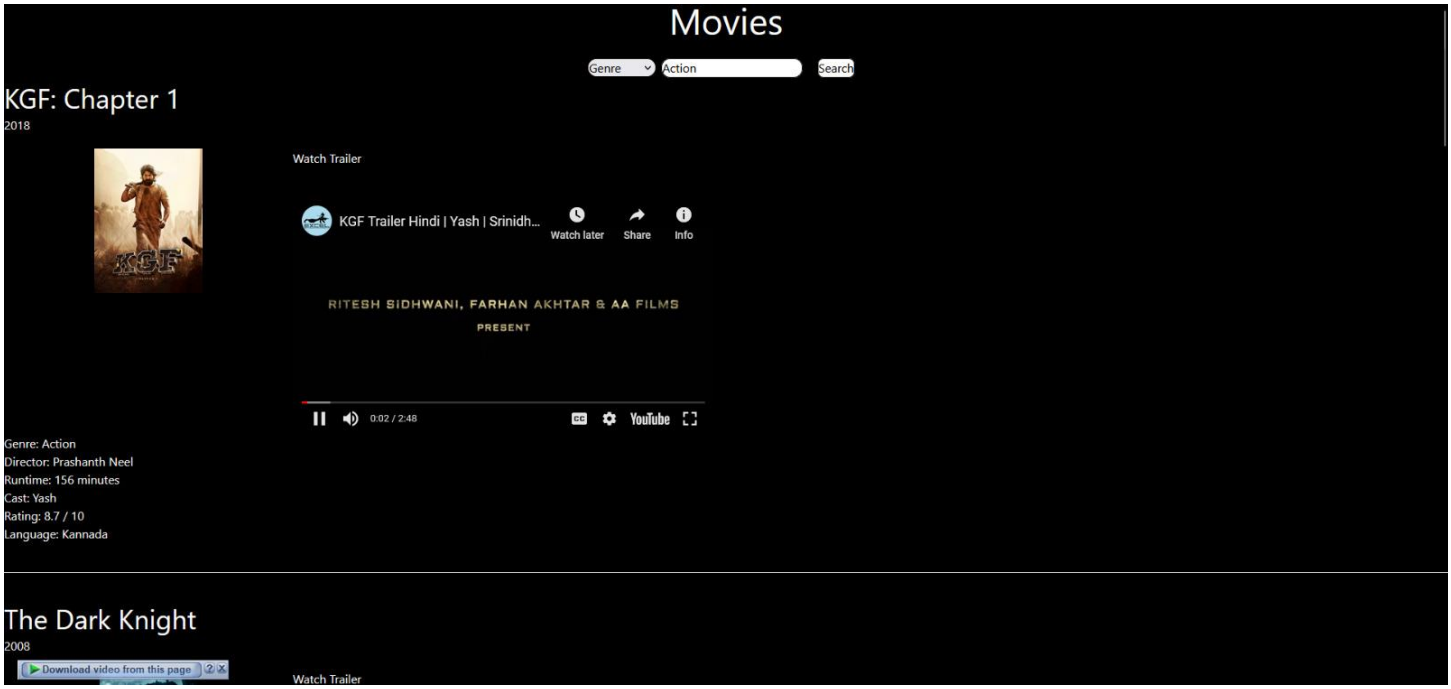


Fig 5.3 Genre Search

5.4 Results of particular rating search

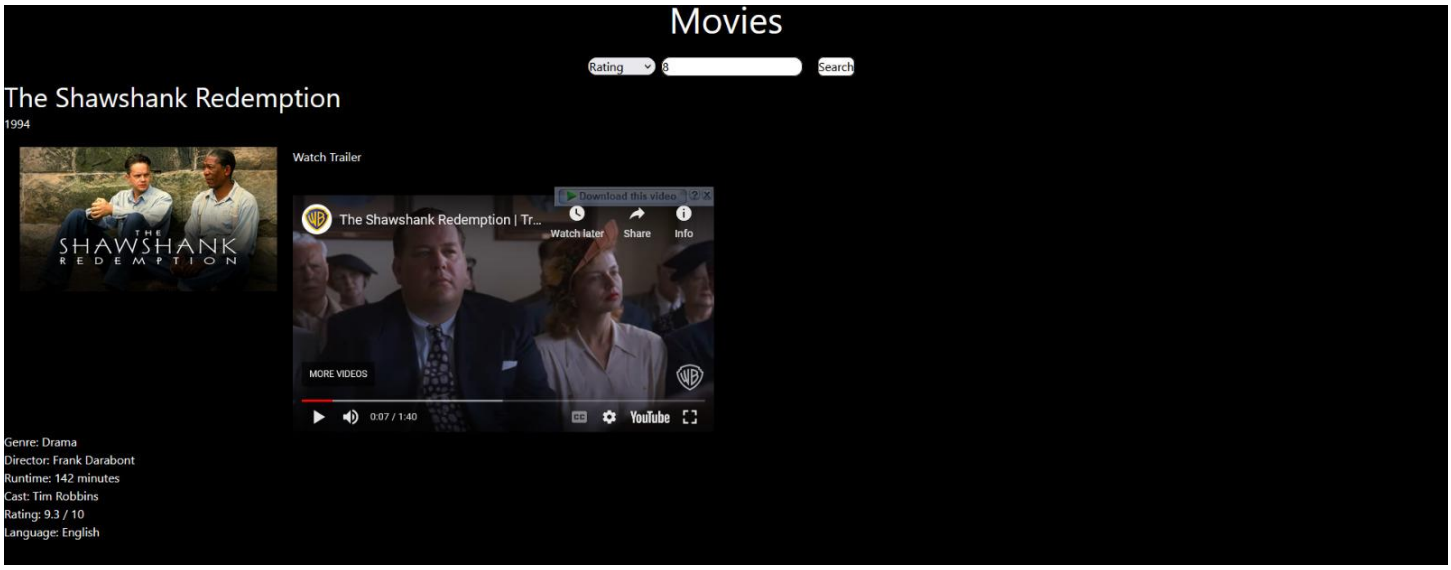


Fig 5.4 Rating Search

5.5 Results of particular language search

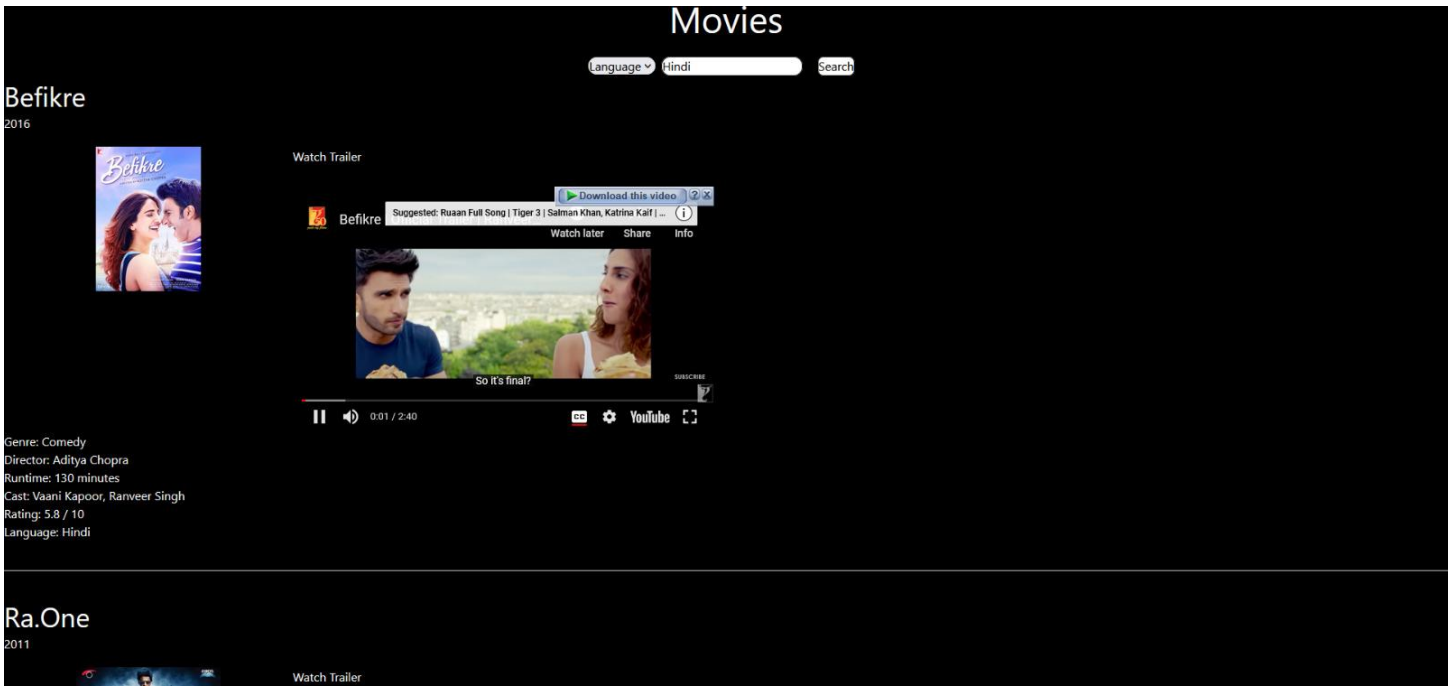


Fig 5.5 Language Search

5.6 Insert or Update Details

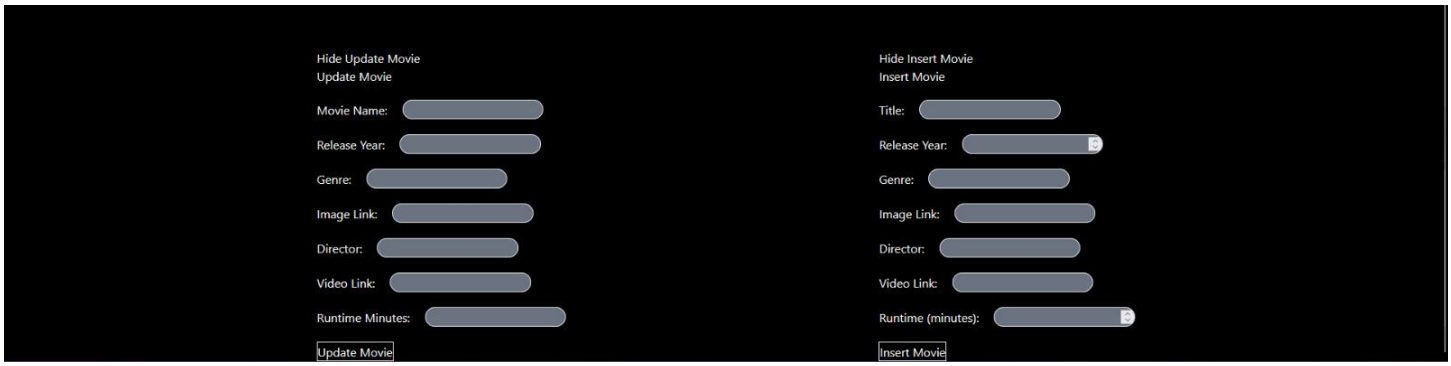


Fig 5.6 Insert or Update Details

CONCLUSION

The Movie Details database system marks a significant advancement in managing movie-related information, catering to the diverse needs of both casual viewers and industry professionals. With its wide range of features, the system offers users a seamless and fulfilling experience, transforming the way they interact with and explore the world of cinema. By serving as a centralized hub for extensive movie data, the Movie Details Page meets the urgent need for efficient access to information in today's ever-changing film industry. From comprehensive movie listings to user-generated reviews, the system empowers users to discover, research, and engage with movies in innovative ways. The collaborative aspect of the system fosters a lively community of movie enthusiasts, allowing users to contribute their insights and ratings to enrich the database. This collaborative effort not only enhances the accuracy and relevance of the data but also encourages affinity among users, sparking discussions and shared appreciation for film. Moreover, supported by robust technological infrastructure, the Movie Details Page ensures scalability, reliability, and security. It provides seamless and secure user experience while accommodating the growing collection of movies and user interactions.

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