**COMPANY PROFILE**

**Company Name : EZ Trainings and Technologies Pvt. Ltd.**

**Introduction:**

EZ Trainings and Technologies Pvt. Ltd. is a dynamic and innovative organization dedicated to providing comprehensive training solutions and expert development services. Established with a vision to bridge the gap between academic learning and industry requirements, we specialize in college trainings for students, focusing on preparing them for successful placements. Additionally, we excel in undertaking development projects, leveraging cutting-edge technologies to bring ideas to life.

**Mission:**

Our mission is to empower the next generation of professionals by imparting relevant skills and knowledge through specialized training programs. We strive to be a catalyst in the career growth of students and contribute to the technological advancement of businesses through our development projects.

**Services:**

**College Trainings:**

• Tailored training programs designed to enhance the employability of students.

• Industry-aligned curriculum covering technical and soft skills.

• Placement assistance and career guidance.

**Development Projects:**

• End-to-end development services, from ideation to execution.

• Expertise in diverse technologies and frameworks.

• Custom solutions to meet specific business needs.

**Locations:** Hyderabad | Delhi NCR

At EZ Trainings and Technologies Pvt. Ltd., we believe in transforming potential into excellence

**ABSTRACT**

An interactive movie guide app abstraction would involve creating a platform that offers users personalized recommendations based on their viewing history, preferences, and trending content. It would include features such as:

**1.User Profiles:** Users can create profiles and input their movie preferences, genres they like, actors they enjoy, and movies they've already watched.

**2.Recommendation Engine:** Utilize algorithms to suggest movies and TV shows tailored to each user's preferences. This could involve collaborative filtering, content-based filtering, or hybrid approaches.

**3.Search and Filters**: Allow users to search for specific movies, genres, actors, directors, or release years. Provide advanced filtering options to narrow down search results.

**4.Watchlist:** Enable users to save movies they want to watch later to a watchlist, with reminders or notifications for upcoming releases or availability on streaming platforms.

**5.Reviews and Ratings:** Allow users to rate and review movies they've watched, and see aggregated ratings from other users. Incorporate user reviews into recommendation algorithms.

**6.Social Features:** Integrate social media functionalities to let users share their movie recommendations, reviews, and watchlists with friends. Enable discussion forums or groups based on movie interests.

**7.Streaming Integration:** Partner with streaming platforms to provide direct links to watch movies within the app. Offer seamless integration with services like Netflix, Hulu, Amazon Prime Video, etc.

**8.Personalized Notifications:** Send personalized notifications to users based on their interests, such as new releases in their favorite genres or recommendations similar to movies they've enjoyed in the past.

**9.Content Details:** Provide comprehensive information about each movie, including plot summaries, cast and crew details, trailers, trivia, and user-generated content.

**10.Offline Access:** Allow users to download movies or save information for offline access, especially useful for travelers or users with limited internet connectivity.

**11.Accessibility Features:** Ensure the app is accessible to users with disabilities, including support for screen readers, subtitles, and customizable interface options.

**12.Data Privacy and Security**: Implement robust security measures to protect user data and ensure compliance with data privacy regulations like GDPR.

By integrating these features, the app can offer a comprehensive and engaging experience for movie enthusiasts, helping them discover new films while also enhancing their enjoyment of existing favorites.

**INTRODUCTION OF THE PROJECT**

* An interactive movie guide app is like having a personal movie expert in your pocket.
* It offers comprehensive information about movies, including plot summaries, cast details, reviews, and ratings.
* But what makes it truly interactive is its ability to tailor recommendations based on your preferences.
* Whether you're in the mood for action, romance, or comedy, the app suggests movies that match your tastes.
* It might even provide trivia, behind-the-scenes insights, and curated lists to enhance your movie-watching experience.
* Overall, it's a user-friendly tool designed to make choosing what to watch a breeze.
* Creating an interactive movie guide app could be a fantastic idea!
* "Welcome to our interactive movie guide app, your ultimate companion for all things cinema!
* where the magic of cinema comes alive at your fingertips! Whether you're craving a heart-pounding thriller, a laugh-out-loud comedy, or an epic adventure, we're here to guide you on your cinematic journey.
* Whether you're a casual moviegoer or a hardcore cinephile, we've got you covered. Explore curated lists, discover hidden gems, and find the perfect movie for every mood. Let's dive into the world of film together!"
* From there, you could proceed to showcase the app's features, such as personalized recommendations, browsing by genre, actor, or director, reviews and ratings, trailers, and perhaps even interactive quizzes or polls to engage users further.

**MODULE DESCRIPTION**

* Model discrimination refers to the identification and categorization of different elements or structures within a given dataset, often performed using machine learning algorithms.
* In the context of your code, discrimination might involve:
* Differentiating between movie data and quiz questions within the MovieDatabase class.
* Distinguishing between various methods/functions such as add\_movie, update\_movie, delete\_movie, take\_quiz, etc., and understanding their respective purposes.
* Identifying patterns and structures within the code, such as classes, methods, loops, conditional statements, etc., to understand the overall functionality and flow of the program.

**Classes:**

* There are two classes defined: Movie and MovieDatabase.
* Movie is an abstract base class (ABC) with an abstract method display\_info().
* MovieDatabase is a class that manages a collection of movies and implements methods for adding, displaying, updating, and deleting movies, as well as for conducting a movie quiz.

**Methods:**

* add\_movie(): Prompts the user to input details of a movie and adds it to the movie database.
* display\_movies(): Displays all movies currently stored in the database.
* update\_movie(): Allows the user to update information about a specific movie.
* delete\_movie(): Allows the user to delete a movie from the database.
* take\_quiz(): Conducts a movie quiz by asking predefined questions and evaluating user responses.

**Attributes:**

* movies: A dictionary storing movie titles as keys and their corresponding details (director, year, genre) as values.
* score: Tracks the score of the user during the quiz.
* quiz\_questions: A dictionary containing quiz questions as keys and their corresponding answers as values.

**Flow:**

* The program runs in an infinite loop, allowing the user to perform various actions.
* Based on user input, different methods of the MovieDatabase class are executed.
* The program terminates when the user chooses to exit.

**Interactivity:**

* The program provides a user-friendly interface, allowing users to interactively manage the movie database by adding, updating, and deleting movies, as well as taking a quiz.

**Algorithm:**

Define a class Movie with properties title, released\_year, director, and genre.

Implement an abstract method display\_info() in the Movie class.

Define a class MovieDatabase to manage the movie database.

Initialize movies dictionary and score variable in the MovieDatabase class.

Define a dictionary quiz\_questions containing quiz questions and answers.

Implement methods to:

Add a movie to the database.

Display all movies in the database.

Update information of a movie.

Delete a movie from the database.

Take a quiz based on quiz\_questions.

Inside a loop, display menu options and perform actions based on user input until the user chooses to exit.

This algorithm outlines the basic structure and functionality of your movie database program. You can further refine it based on specific requirements or additional features you want to incorporate.

**OUTPUT**

Welcome to the Interactive Movie Guide!

1. Add a movie

2. display all movie

3. Update a movie

4. Delete a movie

5. Take the Quiz

6. Exit

Enter your choice (1-6): 1

Enter the movie title: kgf

Enter the director's name: prashant

Enter the release year: 2018

Enter the genre: action

kgf added to the movie database.

Welcome to the Interactive Movie Guide!

1. Add a movie

2. display all movie

3. Update a movie

4. Delete a movie

5. Take the Quiz

6. Exit

Enter your choice (1-6): 1

Enter the movie title: kantara

Enter the director's name: rishab

Enter the release year: 2022

Enter the genre: action thriller

kantara added to the movie database.

Welcome to the Interactive Movie Guide!

1. Add a movie

2. display all movie

3. Update a movie

4. Delete a movie

5. Take the Quiz

6. Exit

Enter your choice (1-6): 2

Movie database:

Title: kgf, Director: prashant, Year: 2018, Genre: action

Title: kantara, Director: rishab, Year: 2022, Genre: action thriller

Welcome to the Interactive Movie Guide!

1. Add a movie

2. display all movie

3. Update a movie

4. Delete a movie

5. Take the Quiz

6. Exit

Enter your choice (1-6): 3

Enter the title of the movie you want to update: kgf

Enter new information (leave blank to keep current value):

Director (prashant):

Year (2018): 2019

Genre (action):

kgf updated in the movie database.

Welcome to the Interactive Movie Guide!

1. Add a movie

2. display all movie

3. Update a movie

4. Delete a movie

5. Take the Quiz

6. Exit

Enter your choice (1-6): 2

Movie database:

Title: kgf, Director: prashant, Year: 2019, Genre: action

Title: kantara, Director: rishab, Year: 2022, Genre: action thriller

Welcome to the Interactive Movie Guide!

1. Add a movie

2. display all movie

3. Update a movie

4. Delete a movie

5. Take the Quiz

6. Exit

Enter your choice (1-6): 4

Enter the title of the movie you want to delete: kantara

kantara deleted from the movie database.

Welcome to the Interactive Movie Guide!

1. Add a movie

2. display all movie

3. Update a movie

4. Delete a movie

5. Take the Quiz

6. Exit

Enter your choice (1-6): 2

Movie database:

Title: kgf, Director: prashant, Year: 2019, Genre: action

Welcome to the Interactive Movie Guide!

1. Add a movie

2. display all movie

3. Update a movie

4. Delete a movie

5. Take the Quiz

6. Exit

Enter your choice (1-6): 5

Welcome to the Movie Quiz!

What year was the movie 'KGF' released? 2018

Correct!

Who directed the movie 'Kantara'? rishab

Incorrect.

What is the genre of the kgf movie ? action

Correct!

You scored 2 out of 3.

Welcome to the Interactive Movie Guide!

1. Add a movie

2. display all movie

3. Update a movie

4. Delete a movie

5. Take the Quiz

6. Exit

Enter your choice (1-6): 6

Exiting the program. Goodbye!

Process finished with exit code 0

**CONCLUSION**

The code creates an interactive movie database system in Python. It lets users add, display, update, or delete movies, and also take a movie quiz. It's built using classes, methods, and a menu-driven interface.

The interactive movie guide app provides a seamless way for users to manage movie information and test their movie knowledge. It leverages object-oriented programming to organize data and functionalities efficiently. Users can add, update, or delete movie entries, ensuring the database remains up-to-date. Additionally, the quiz feature adds an element of fun and challenges users to test their movie expertise. With its intuitive menu-driven interface and error-handling capabilities, the app offers a user-friendly experience. Overall, it's a versatile tool for movie enthusiasts to explore and engage with their favorite films