Chapter 1

Introduction

1.1 Summary : The project as the name suggest is a database of information related to films, television programs, including cast, biographies, plot summaries. This aims to provide user with the details of the movie,shows that are being released and also of the one which are upcoming.

1.1.1 Usefulness: Today, the entertainment industry works in millions and the movies are beating all past records in terms of net grossing. This cannot be possible if the industry doesn't have the right ingredient of popularity, awareness among fans. This database serves as the win-win for both the worker behind the scene and for the end-user. It provides the platform to popularise any upcoming tv program /movies , also it gives the user the correct details about the show.
Although there are many such review sites available but we aim to provide user with the list of movies on the type of their genre, favourite show which brings in the new feature in it.

1.1.2 Realness: The data that we'll be getting from is by scraping the iMDB website. We have planned to do that by using **IMDbPY** which is a Python package useful to retrieve and manage the data of the IMDb movie database about movies, people, characters and companies.

1.1.3 Basic Fuctionality:

Insert	User inserts the rating of the movie/tv show.
Delete	The movies/tv shows which are censored are deleted.
Update	Any new user can update the rating of the movie and total rating is the average of ratings from all the user
Join	Combine the details of the cast with the movie name and it is displayed.

1.1.4 Advanced Functionality:

- The feature that distinguishes this movie database from iMDB is the option of searching all the movies by keyword “genre” , “year”, “cast name” , “length of the show/movie”.
- For example :
- Input: If a user wants to search the movie of "bradley cooper" which came in year "2014".
  Output: “American Sniper”

1.2 E-R Diagram:

1.2.1 Entities in E-R Diagram:

Name of Entity	Type of Entity	Attributes	Primary Key	Relationship Involved
MOVIE	Strong	M_name, D_name, Release_date, Time, Rating, Genre, Summary, Cast_Name	M_name	WORKS_IN, DIRECTS
CAST	Weak	Name, Bio	none	WORKS_IN
TV SHOWS	Strong	Show_name, Release_date, Time, Seasons, Rating, Genre, Summary, Cast_name, Year, W_name	Show_name, Writer_name	WORKS_IN, DIRECTS, WRITES
DIRECTOR	Weak	Name	none	DIRECTS
WRITER	Weak	Name	none	WRITES

1.2.2 Relationships in E-R Diagram:

Name of Relationship	Entities Involved	Cardinality Ratio	Attributes	Min:Max Constraints
WORKS_IN	Movie,Cast,TV Shows	N:M	none	(1,N):(1,M)
DIRECTS	Movie,TV Shows,Director	N:1	none	(1,N):(1,1)
WRITES	TV Shows,Writer	N:1	none	(1,N):(1,1)

1.2.2 E-R Diagram: