CINEMA-A_Z

CS251 course project

Description

In this project, we made a web application which will help the user by giving all the ratings, cast, category/genre, user reviews, platform and so on given the title of a Movie/TV show.

Features

- The platform had a user login. The user will be able to have 3 lists
 - To watch movies
 - Watched movies
 - favourites
- · Features of movie to be displayed to user are ratings, plot, languages and other useful information regarding a film

WorkFlows

1.Register App

User Registration

- Fill all details on Registration page and click on signup button.
- If valid user
 - YES add it to database and redirect to login page
 - NO No access
- Models
 - used django default user model.
- Views
 - o register view
- URL connected to a view path('register/',v.register,name="register"),

User Login

- Fill Details and click on login button.
- · Check if user is registered
 - if YES Redirect to Home page
 - else Invalid login
- Models
 - o used django default user model.
- Views
 - used django default login view
- URL connected to view path('',include("django.contrib.auth.urls")),

2.Main App

Searching For Movie

- · Whenever a movie name is searched first checks whether it is previously searched or not
 - YES Display Stored information
 - NO create new Search model and scrap and save search model
- Models
 - SearchClass

- Fields
- name (movie name which is searched)
- movieobjects (obtained movie objects after scraping for moviename)
- tvshowobjects (obtained movie objects after scraping for moviename)
- Views
 - searchresults
 - Parameters
 - response (POST request from search button)
- URL connected to View path("searchresults/", views.searchresults, name="searchresults"),

Scraping

- The scraping code will get called just when the user types the movie name 1st time.
- Scraps movie titles of all search results obtained by searching for movie name in rotten tomatoes.
- If movie title already exists in database
 - · YES display it directly.
 - NO scrap all features of movie and display it.
- Scrapped data like plot, language, cast... from rotten tomatoes and stored them as a seperate lists, each element corresponds to the feauture of respective search result.
- If any particular feature is not found or not added to the websites, then the elements in our list stores the string 'N/A'
- Similarily For TV shows.

Adding movies to Database

- After scrapping movie titles check if it exists in database
 - if YES By movie id display it.
 - Else Create model Movie Object with features from scrapped data and Save (Add to Database)
- Models
 - Movie
 - Fields As mentioned in features
- Views
 - results
 - parameters moviename as parameter to start scraping.
 - URL connected to View path("results/<str:moviename>",views.results,name="results"),

Adding TVShows to Database

- · After scrapping tvshow titles check if it exists in database
 - if YES By tvshow id display it.
 - Else Create model tvshow Object with features from scrapped data and Save (Add to Database)
- Models
 - tvshow
 - Fields As mentioned in features
- Views
 - results
 - parameters moviename as parameter to start scraping.
 - URL connected to View path("results/<str:moviename>",views.results,name="results"),

Creating watchlist, watchedlist and favorites

- · Click on Add to wishlist button
- Check if item already added to wishlist YES Remove from wishlist. if NO check if item is in watched list if YES -Wont add to wishlist - else - Add to wishlist
 - Similarly for other lists.
 - Model
 - for Movie model Connects using ManytoMany Field users_wishlist = models.ManyToManyField(User, related_name="users_wishlist", blank=True) users_favlist = models.ManyToManyField(User, related_name="users_fav", blank=True) users_watchedlist = models.ManyToManyField(User, related_name="users_watchedlist", blank=True)
 - o for tvshow model Connects using ManytoMany Field users wishlist = models.ManyToManyField(User,

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related_name="users_tvwishlist", blank=True) users_favlist = models.ManyToManyField( User,
related_name="users_tvfav", blank=True) users_watchedlist = models.ManyToManyField( User,
related_name="users_tvwatchedlist", blank=True)
```

- View
- add_to_wishlist
 - parameters movie id(by id movie added to wishlist of user)
- add_to_tvwishlist
 - parameters tvshow id(by id tvshow added to wishlist of user)
- URL connected to View path("wishlist/add_to_wishlist/<int:id>", views.add_to_wishlist, name="user_wishlist"), path("wishlist/add_to_tvwishlist/<int:id>", views.add_to_tvwishlist, name="user_tvwishlist"), path("favlist/add_to_favlist/<int:id>", views.add_to_favlist, name="user_favlist"), path("favlist/add_to_tvfavlist/<int:id>", views.add_to_tvfavlist, name="user_tvfavlist"), path("watchedlist/add_to_watchedlist/<int:id>", views.add_to_watchedlist, name="user_watchedlist"), path("watchedlist/add_to_tvwatchedlist/<int:id>", views.add_to_tvwatchedlist, name="user_tvwatchedlist"),

Templates

1.Main App

- home.html
 - whenever user logins home page is diaplayed
 - o rendered by view home return render(response, "main/home.html", {})
- results.html
 - After searched for movie it shows results here.
 - rendered by view searchresults and results return render(response, "main/results.html", send) return render(response, "main/results.html", stuff)
- · particular.html
 - Full info of movie shown here
 - rendered by view cinema return render(response, "main/particular.html", {"movie": movie})
- showparticular.html
 - Full info of tvshow shown here
 - rendered by view show return render(response, "main/showparticular.html", {"show": tvsho})
- · wishlist.html
 - Wishlist of respective user is shown in respective user wishlist pages both movies and tvshows
 - rendered by view wishlist return render(request, "main/watchlist.html", {"mwishlist": movies,"twishlist":tvshws})
- watchedlist.html
 - Watchedlist of respective user is shown in respective user watchedlist pages both movies and tvshows
 - rendered by view watchedlist return render(request, "main/watchedlist.html", {"mwatchedlist": movies,"twatchedlist":tvshws})
- favlist.html
 - Favoritelist of respective user is shown in respective user favlist pages both movies and tvshows
 - rendered by view favlist return render(request, "main/favlist.html", {"mfavlist": movies,"tfavlist":tvshws})

2.Register App

- · register.html
 - o user signup page is shown here
 - rendered by view register return render(response, "register/register.html", {"form" :form})
- login.html
 - o user login page is shown here
 - o rendered by view login (django default)