Class Database

Location: /data/database.py

Remarks:

Database is a class that operates an SQLite database. Database object must be located in the same directory as the script

Variables:

name : name of the database loaded

db: database object

Functions:

create\_database(database\_name) -> loads up the database or creates new one if the database doesn’t exists.

Get\_field\_by\_parameter(table\_name,field\_name,parameter,value) -> searches for a value at the field\_name in table name that passes the parameter condition.

Register\_user(login,email,password) -> registers user if data is valid

Login\_user(login,password) -> logins user if data is valid

Get\_users() -> get all users from database

Get\_movies() -> get all movies from database

Get\_movies\_by\_parameter(parameter,value) -> returns movies that passes parameter condition

Get\_user\_reviews(user) -> get all reviews committed by the user

Get\_movie\_reviews(movie) -> get all reviews for the movie

Add\_movie(movie) -> adds movie to the database

Rate\_movie(user,movie,score) -> calls add\_review and updates avg rate for the movie

Add\_review(user\_id,movie\_id,score) -> adds review to the database

Clear() -> clears the datatable , calls SQL “DROP TABLE”

Class AppInstance

Location:/app\_instance.py

Remarks:

AppInstance is a class that is overseeing the whole application , it holds information about database , currently logged user and app data from the Qt

Class DataGenerator

Location:/data\_generator.py

Remarks:

DataGenerator is a class that is generating for the database

Functions:

Generate\_users() -> populates users table

Generate\_movies() -> populates movies table

Generate\_reviews() -> populates reviews table

Class Movie

Location:/data\_objects/movie.py

Remarks:

Movie is a class that represents data about it’s title , director , duration …

Variables:

Id

Title

Director

Description

Duration

Actors

Genre

Icon\_path

Avg\_rate

Number\_of\_users

Functions:

Set\_avg\_rate(avg\_rate,number\_of\_users) -> sets the avg\_rate for the movie

Rate(value,user) -> rates the movie and updates its avg\_rate

Class Review

Location:/data\_objects/review.py

Remarks:

Review is a class that represents data about who posted it , which movie it is related to and the score given

Variables:

User\_id

Movie\_id

Score

Class User

Location:/data\_objects/user.py

Remarks:

User is a class that represents data about user’s login , email , password ,id ..

Variables:

Login

Email

Password

Icon\_path

Id

Class FilwebDialog

Location:/dialogs/filmweb\_dialog.py

Remarks:

FilmwebDialog is a class that sets window icons for all of the dialogs in the application

Class AddMovieDialog

Location:/dialogs/add\_movie\_dialog.py

Inheritance: FilmwebDialog

Remarks:

AddMovieDialog is a class that is responsible for add movies in a way that is friendly to the user

Functions:

get\_movie\_details(parent) -> static method that creates the dialog and returns the data about the movie

show\_fields() -> creates line edit for each category (title , director , description , duration ,actors , genre)

get\_data() -> returns movie object from the data from the line edits

Class DetailsDialog

Location:/dialogs/details\_dialog.py

Inheritance:FilmwebDialog

Remarks:

DetailsDialog window is a class that hosts informations about given movie.

Functions:

get\_movie\_details(movie,parent) -> static method that creates the dialog and displays it

get\_ratings(movie) -> gets user ratings for a movie

get\_details(movie) -> gets details about the movie

Class RateDialog

Location:/dialogs/rate\_dialog.py

Inheritance:FilmwebDialog

Remarks:

RateDialog is a class that is responsible for rate a movie in a way that is friendly to the user.

Functions:

Get\_rate(parent) -> static method that createds the dialog and returns the rate

Create\_radio\_buttons) -> creates radio button for reates from 1 to 10

Class LoginDialog

Location:/dialogs/login\_dialog.py

Inheritance:FilmwebDialog

Remarks:

LoginDialog is a class that is responsible for logging users in a way that is friendly for the user.

Functions:

get\_login\_password(parent) -> static method that creates the dialog and gets the data about the login and password

get\_login\_and\_password() -> returns login and password from line edits

Class RegisterDialog

Location:/dialogs/login\_dialog.py

Inheritance:FilmwebDialog

Remarks:

RegisterDialog is a class that is responsible for registering users in a way that is friendly for the user.

Functions:

Get\_login\_password(parent) -> static method that creates dialog and return login , email and password

Get\_data() -> returns login , email and password for line edits

Class FilmwebWindow

Location:/windows/filmweb\_window.py

Remarks:

FilmwebWindow is a class that creates window icons and desired size (500px x 350px) for all windows.

Functions:

closeEvent(event) -> adds pop up question “Do you really want to leave” when clicking the close button

Class WidgetManager

Location:/windows/widget\_manger.py

Inheritance: FilmwebWindow

Remarks:

WidgetManager is a class that controls changing between filmweb windows

Functions:

Switch\_window(window\_name,\*\*kwargs) -> switches to MainWindow if the window name equals to “Main Window” else it there is user object specified in kwargs switches to ProfileWIndow

Class ProfileWindow

Location:/windows/profile\_window.py

Inheritance:FilmwebWindow

Remarks:

ProfileWindow is a class that presents user’s login and reviews created by him/her.Has reference to WidgetManager.

Functions:

Show\_main\_window() -> calls WidgetManager and switches to MainWindow

Show\_reviews() -> show reviews of the user

Class MainWindow

Location:/windows/main\_window.py

Inheritance:FilmwebWindow

Remarks:

MainWindow is a class that shows latest movies , recommended movies , users and has search engine functionality for movies. Has reference to WidgetManager.

Functions:

Set\_search\_key(key) -> sets search key for search engine

Show\_movies(\*\*kwargs) -> show movies sorted by parameter if key and value are specified in kwargs , shows recommended movies if sort is specified in kwargs else shows latest movies.

Add\_movie() -> opens AddMovieDialog

Show\_profile(user) -> switches to ProfileWindow for specified user

Rate\_movie(movie,label) -> opens RateDialog and updates the label showing avg rate

Login() -> opens LoginDialog

Register() -> opens RegisterDialog

Logout() -> logouts user

Set\_is\_logged(user) -> changes layout based whenever user is logged or not

Show\_users() -> show all users in the scroll box