Description of Practical Assignment “Movie-Base”

Team of Developers

There is two students participating in the development of the system:

- Dmitrijs Pavličenko, dp21074 (business logic development, user interface design, programming of controllers and models)
- Filips Rigačovs, fr21002 (design, business logic development)

Development Environment

It is planned to develop the system in PHP 7.1 environment using Laravel library. It is planned to use MySQL database for data storage. The code will be stored in the GitHub system.

Main Functionality

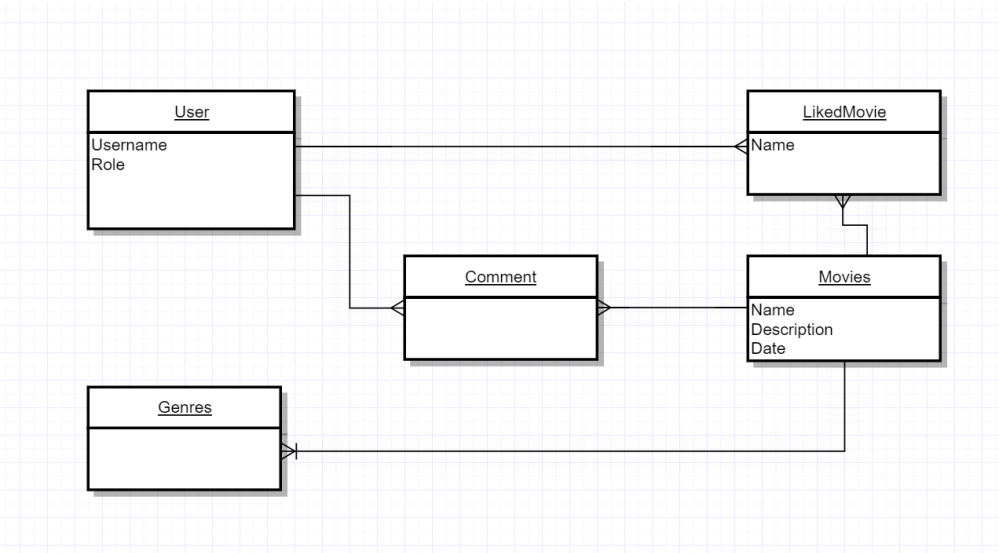
Within the framework of the practical assignment, it is planned to develop a web movie base system.

It will be possible to add movies in the system and make them available to a wider audience of the system users. Movies will be added by editor(one of admin roles). The system will allow to divide movies into separate film genres and assign genres to them. Visitors will be able to select movies to watch by a genre or search films by the phrase that is included in the name.

Data Registry

The most significant concepts in the system: movies, users.

The system consists of movies, the editor, who added the film is one of the users. Each movie has multiple genres. Genres are used to describe the type of movie. Genres are tied to a movie, so that editor would have the opportunity to reuse the same genre. Any movie can have multiple genres. Comments can be added to the movie. Each comment is related to the particular user of the system. Also registered user can add movies to his own liked movie list.



MVC

The system will be implemented following an MVC paradigm. The system will be distributed into the following components:

Models:

- User
- Movie
- Comment
- Genre

Views:

- list of movies with a search box
- list of genres
- view with information about a particular movie
- new movie creation-adding view
- view for movie updating/deletion
- movie deletion view
- genre deletion view
- view for adding a comment to a movie

- view for adding genres to a movie
- view for blocking users
- view for liked movies

Controllers:

- GenreController with methods for retrieving and showing a list of genres (index), creating (create) and saving (store) a new genre, returning a list of genres filtered by search string in genre name (search);
- MovieController with methods for retrieving and showing a list of movies posted (index), creating (create) and saving (store) a new movie, editing (edit) and saving changes in the database (update) of an existing movie, deleting a movie (destroy), returning a list of movies filtered by search string in movie name (search);
- LikedMovieController with methods for retrieving and showing a list of movies that registered user likes (index), adding film to liked section (create) and deleting a movie from liked section (destroy), also returning list of movies filtered by search string in movie name (search);
- AdminController with methods for retrieving and showing a list of users (index), blocking or unblocking a user (block);
- Laravel standard RegisterController and LoginController.

User Roles

The system supports a number of different user roles - a simple visitor, registered user, editor, administrator. Each of these roles have different operations available in the system.

Simple visitor:

- see movie page
- search for movies
- check movies trailer

Registered user:

- add comments to the found movies
- see more movies
- add movies to the liked section
- access to payment page

Editor:

- add new movies
- delete and edit movies

Administrator:

- the same permissions as editor has
- block users.

User Authentication

For the user authentication, it is possible to use only local registration system.

System Interface

The image shows the form for movie displaying. In the form a user can choose the selection criteria and specify how to arrange the results. Similarly, there are operations available to the user that can be performed with the movie-base as a whole.