



CS 353 Database Systems

Project Proposal

Media Services Data Management System

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Project Website

<https://aliekemalozkan.github.io/MediaOnline/>

Table of Contents

The Description of the Application System	2
Why/How a Database is going to be used	2
Requirements	3
Functional Requirements	3
Sign Up	3
Log in	3
Log off	3
Profile	3
Movies and Series	3
Genres	4
Feedback system	4
Channels	4
Message	4
Wishlist	4
Non Functional Requirements	4
User Interface	4
Privacy	4
Response Time	4
Reliability	5
Limitations	5
E-R Diagram	6

1. The Description of the Application System

Media services data management system will provide media services to users. With this platform, users will be able to watch movies and series. The platform enables users to make choices for both movies and series in the different genres. Users can also create some channels for themselves to follow different movies and series. Users can comment under the movies or series which are provided in the platform. These comments can be in the form of both likes/dislikes and written. These likes/dislikes given to a movie by a user will also be considered as preferences of the same user and the suggestions will be made accordingly. Thus, users can see comments of a movie or series before watching it. Users will have their walls as a profile page. They will be able to add friends and follow their activities thanks to a system that will keep track of activities of users. There is a message system that enables users to send and receive messages from their friends.

This report is prepared for the proposal of the project. Requirements, how a database system is going to be integrated and used, limitations are explained in a more detailed way later in this report. E/R diagram of the system is provided as well.

2. Why/How a Database is going to be used

Because the system needs to store data for many components, we need a database system that is constructed with entities and relationships according to these components. As mentioned in section 1, There are many different functionalities and features of the platform. All these functionalities should be connected to a database system to be able to be performed in the right way. There are going to be several types of entities such as movies, series, users and so on. The database system will help to handle storing all data and required information in dispose of some relations. For instance, there will be a “watch” relation between the users and movies entities. There will also be some specifications like genres being specified into fear, action

etc. The detailed explanation of entities and relations among them will be presented in the E/R model later in this report.

3. Requirements

3.1. Functional Requirements

3.1.1. Sign Up

People who want to become a member will sign up by creating an account with a unique email and a password. Also they will share additional info about themselves.

3.1.2. Log in

If the user is already a member, the user will just need to enter their emails and password to log in.

3.1.3. Log off

Users have the option to log off from the account.

3.1.4. Profile

Every user will have a profile page, as their wall, in the platform. Profile pages will be created after the sign up process. They will be able to edit their wall whenever they want to change their information. The wall will include information about their friend list, channels, user info, inbox, sent box, comments, and their preferences for genres. Their activities like their comments on the movies or series will be included to be demonstrated by themselves or their friends.

3.1.5. Movies and Series

Users will be able to watch movies and series on the platform. Series consists of at least one episode. Users will be able to watch any episode.

3.1.6. Genres

Movies and series will be categorized in genres. Users will be able to choose a genre to watch a movie/series that is by chosen genre. Users will be able to make preferences for a genre.

3.1.7. Feedback system

Users will be able to comment on and give likes/dislikes to movies and series.

3.1.8. Channels

Users will be able to create channels to easily follow different movies and series.

3.1.9. Message

Users will be able to message to their friends.

3.1.10. Wishlist

If users want to watch a movie or series which is not available in the database, they can send a wish list to website admin.

3.2. Non Functional Requirements

3.2.1. User Interface

User interface of the application will be user-friendly (easy to use) so that users can learn the interface within 2 minutes without reading the user manual.

3.2.2. Privacy

The data of users will not be shared with third party apps.

3.2.3. Response Time

Response time of each action will be no longer than 3 seconds so that users can use the app effectively.

3.2.4. Reliability

System will not cause a data loss after the submission of a solution.

4. Limitations

- Authorization of users will prevent any disallowed access and manipulation of the data.
- With one email only one user account can be created.
- Passwords need to be alphanumeric for security reasons.
- Movies and series will be published after the admin check.
- Comments will be checked whether they are suitable to and acceptable by community rules. If they are not, they will not be published.
- Users will be able to send messages only to their friends.

5. E-R Diagram

