**Popular Movies**

**Functional Specification**

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* NOT CONFIDENTIAL –

**Overview**

Popular Movies is a website where users can share Movies they love. Users can also view movies loved by others. Users will be able to access links from where they can purchase these movies. Users can also view details about the movies, such as actors, genre, box office, etc.

**Scenarios**

**Scenario 1:** Say a user named John is wondering what the name of the actor in that one movie is that he really loved. Well, he has to fear no more, because at Popular Movies website, he can just select the movie of his choice, and see who the actors in that film were.

**Scenario 2:** This time, we have a college student named Sam, who just finished his finals. He now wants to relax a bit, and probably even watch a movie. But he doesn’t know which movie to watch, he has many options, but he can’t decide. Once again Popular Movies comes to the rescue. Sam can go to Popular Movies, register as a member, and find out which movies are popular. He not only has the option to see which movies are popular, but he can add his own preferences.

**Non-Goals**

Members are not allowed to change passwords.

User submitted URL will not be tested to see if the URL is a real web-address or not.

Members are not allowed to delete movies after uploading a movie.

**Screen by Screen Spec**

Popular Movies consists of couple different screens. Most screens follow a standard format, nothing too fancy. They can be later redesigned by graphics designer to look fancy. All screens use HTML.

**Home Page**

The first page is comes after which the user logs in. It will directly lead to:

1. Users being able to view list of movies.
2. Users having the option to see list of directors
3. Users having the option to see list of actors
4. Users having the option to insert a new movie

**First Page**

**A screenshot of a cell phone

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All other screeens are available to view after logging into the first page.

**Technical Note**:

Since all pages use a system of incldues, server should reamin operational at all times, otherwise the user may experience crash, or severe delay.

**Log In Form**

The log in form is used by current members to log into their accounts so they can view popular movies.

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* At the bootom, there is a sign up option for non members to sign up. After which, their data will be safely secured in a database and they can also view popular movies.
* When the user clicks log in, the following checks are performed on the server:
  + The username is checked directly against the User table stored in MySQL database. If there is no such user, then the user will be given a reply “invalid username”, please enter the name again.
  + If the username is valid, then the passowrd is the next thing checked against the User table. Note, the table does not store password as strings, rather, it stores password using md5() hash function. The password entered by user is converted to a hash, and checked in the database against the password corresponding to the username. If the password mathes, the user can log in. However, if the password does not match, the user will be given a reply “invalid password”, enter the password again.
  + If neither the username, nor the password exist, the user must register for a new account and then try to log in.
  + If everything is successful, the user can happily view those popular movies.

**Open Issue:**

* Need to deicde on how to design a the website with a better GUI. Must use modern featurs such as animation, sounds, etc.

**Register Form**

**A screenshot of a cell phone

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This is the registration form, where the user will be able to register with a new account.

1. The user must provide a unique userId, if the ID isn’t unique, then the user is asked to provide a different ID.
2. The user can put any combination of string, to the password field. It is hashed, and stored in the User table.
3. The user must provide his or her valid first name.
4. The user must provide his or her valid last name.
5. The user must provide his or her valid email. This email is not checked, meaning the form won’t check if the email entered is in valid email format, and if the email itself is a valid email or not. However, the email is checked against the emails stored in user database, if an email already exists, the user is asked to provide a new email.

**Open Issue:**

* Need to implement functionality in order to check email field, this ensurs that all users have valid email.

**Database Spec**

Our website uses the open source, mysql databaste in order to carry out database management. There are a total of 5 tables stored on the server. Here is the high level overview of the tables and their relations.

User Table

A picture containing indoor, scoreboard, text, electronics

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Actor Table



A picture containing electronics, indoor

Description automatically generated

Director Table

A close up of a keyboard

Description automatically generated

Movie Table:

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Movie Direction Table:

A black sign with white text

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Movie Cast Table:

A picture containing indoor

Description automatically generated

**Open Issues:**

* There are many things that still needs to be implemented in the site. For example, session control has not been implemented yet, so users won’t be able to navigate different pages without having to log in again.
* Also, users need to be given a logout option.