ĐẠI HỌC QUỐC GIA VIỆT NAM
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WEB PROGRAMING

MOVIE ONLINE WEBSITE

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Thành phố Hồ Chí Minh, 29/11/2018

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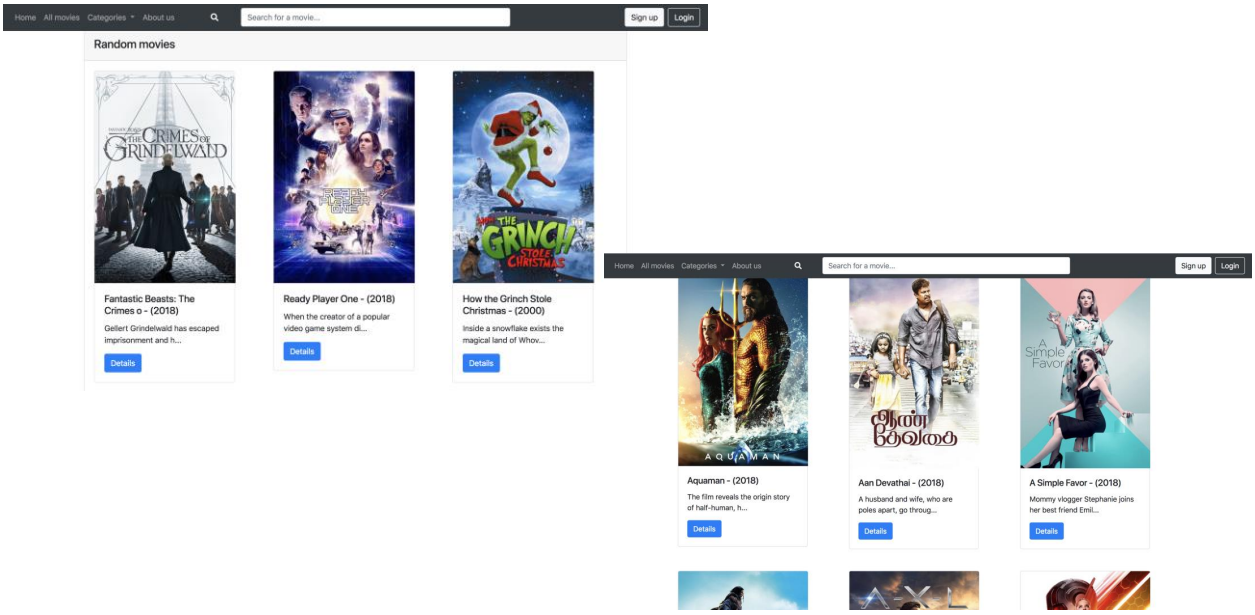
I. Introduction

Movie is one of the most popularity entertainment in the whole world. People watches movie for relaxation and conclude the value of life through each story in the movie. Nowadays, people do not to go the cinema to enjoy the movie they want, they can sit at home and searching the internet for their favorite movie.

The idea of website, which is created for people to watch a movie, help them to enjoy their favorite movie everywhere and anytime.

Moreover, coming to our movie website, users not only enjoy the top of movie, but also they can become their own watch list, get the information of the actor/actress, the director, the review of a film through other's comment,… You can register or log in by simple steps. And finally, we provide the friendly user interface for users that easily enjoy movies.

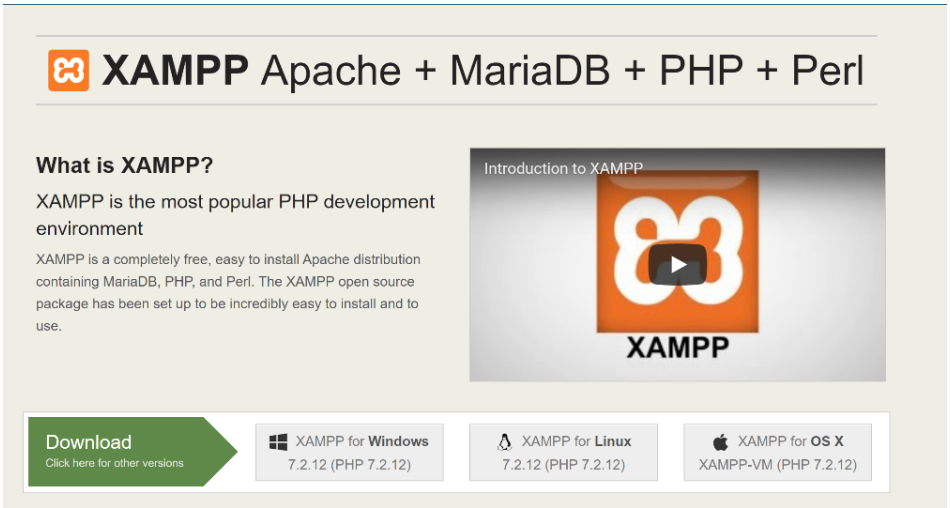


1. Installation

1.1 Server

On the serser side, we use XamPP, a free and open-source cross-platform web server solution stack package, to host our website, because this is a very popular hosting website nowsaday. In order to use XamPP, follow by simple steps:

1. Visiting XamPP website: link.
2. Choosing a suitable operating system version for your computer.



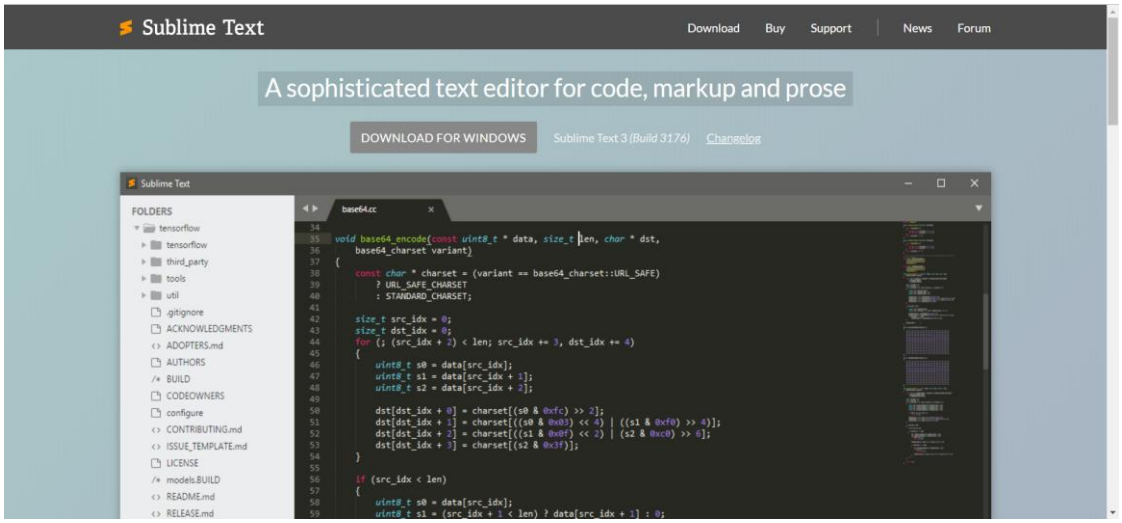
3. Downloading a lastest version of XamPP for the newest support package.
4. XamPP is very friendly for users, you can get it by clicking “Next by Next” until finishing.
5. XamPP default path is in C:\XamPP in your computer.

As well as, we use PHP language to design the server, the reason is that PHP language is the most popular language, none of fee to download, and the wide supporting from the internet.

1.2 Client

On the client side, we use HTML language to design user interface for clients. For IDE, we recommend using “Sublime Text” for coding. To use this tool, follow these steps

1. Visiting Sublime Text website: link.

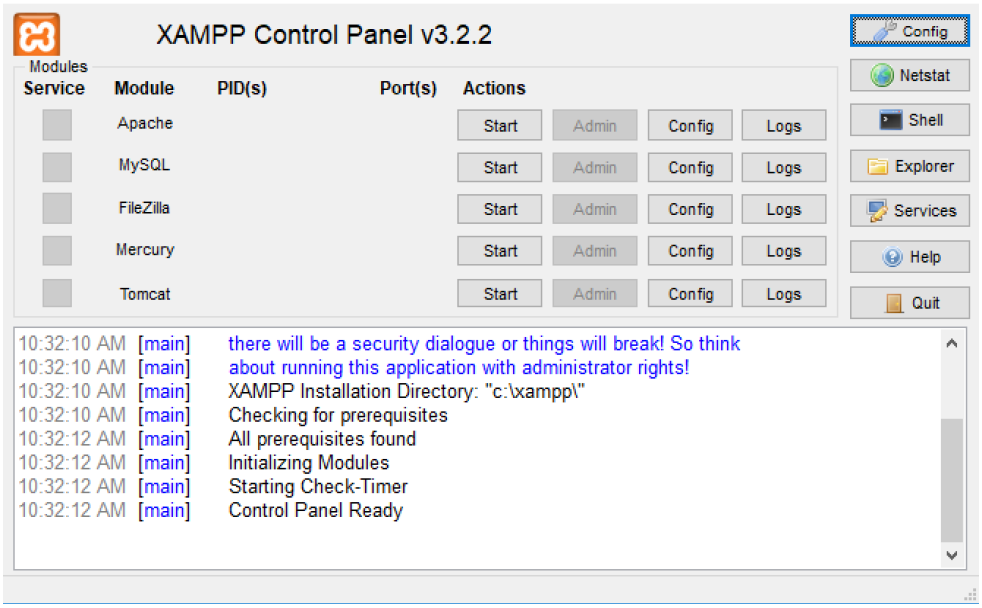


2. Downloading the lastest version of the tool.

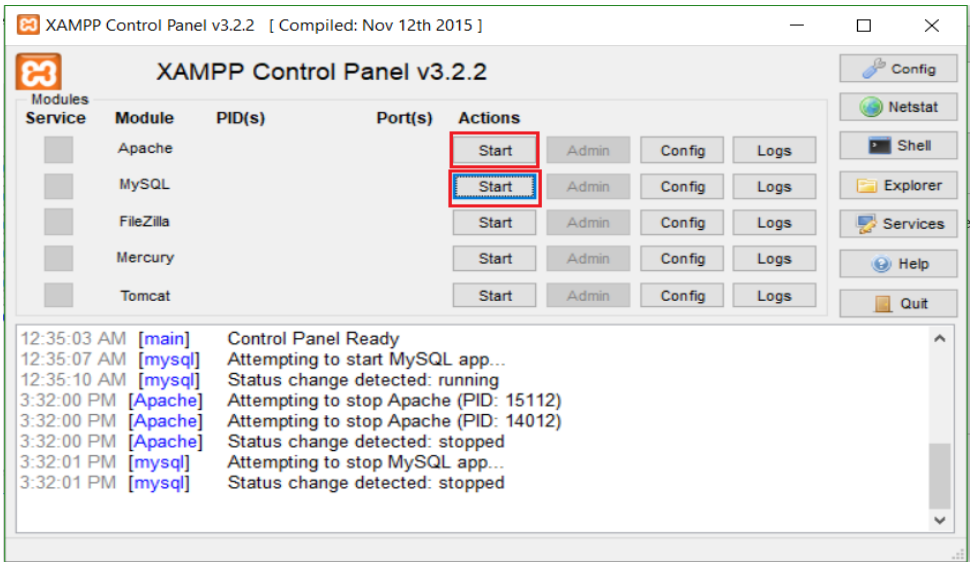
2. Running

2.1 Server

1. Running the application by the path: C:\xampp\xampp-start.exe.
2. The interface of XamPP.

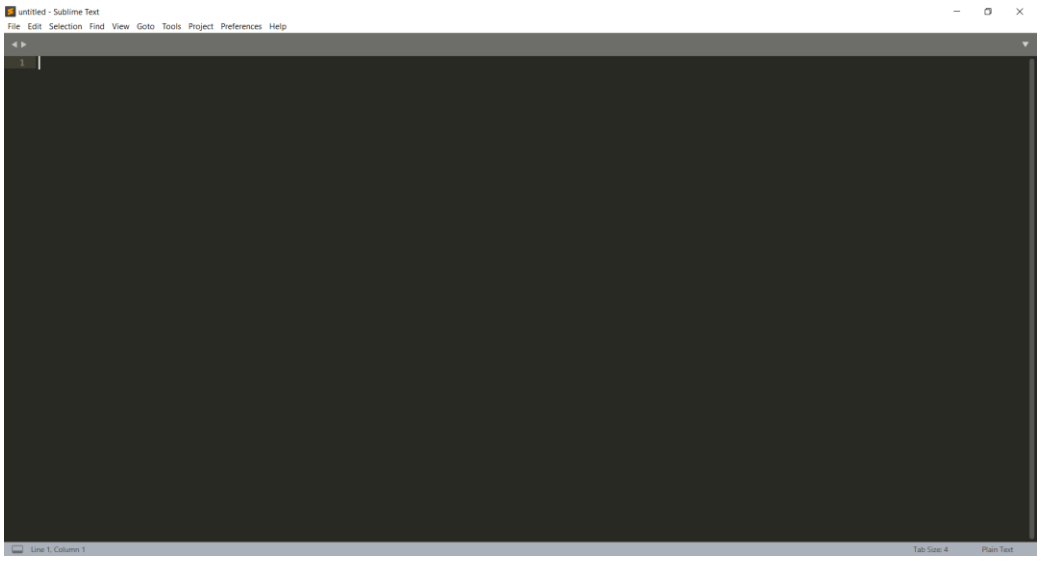


3. Click Start button beside Apache module and MySQL module to start server.



2.2 Client

1. Running Sublime Text.



2. Starting coding html language

II. Requirement Analysis

1. Topic introduction

Topic: Design and build a movie online website.

Description:

- Show list of movie in different categories, such as: Romantic, Action, Horror, etc.
- List items order by attributes with pagination.
- Show movie profile including director and main actress or actress.
- Use HTML5, CSS3, JavaScript, PHP, bootstrap, MySQL,…

Requirement:

- Must provide software analysis in UML diagram.
- Must provide database with tables.
- Demo with at least 100 items.
- Apply onpages SEO.

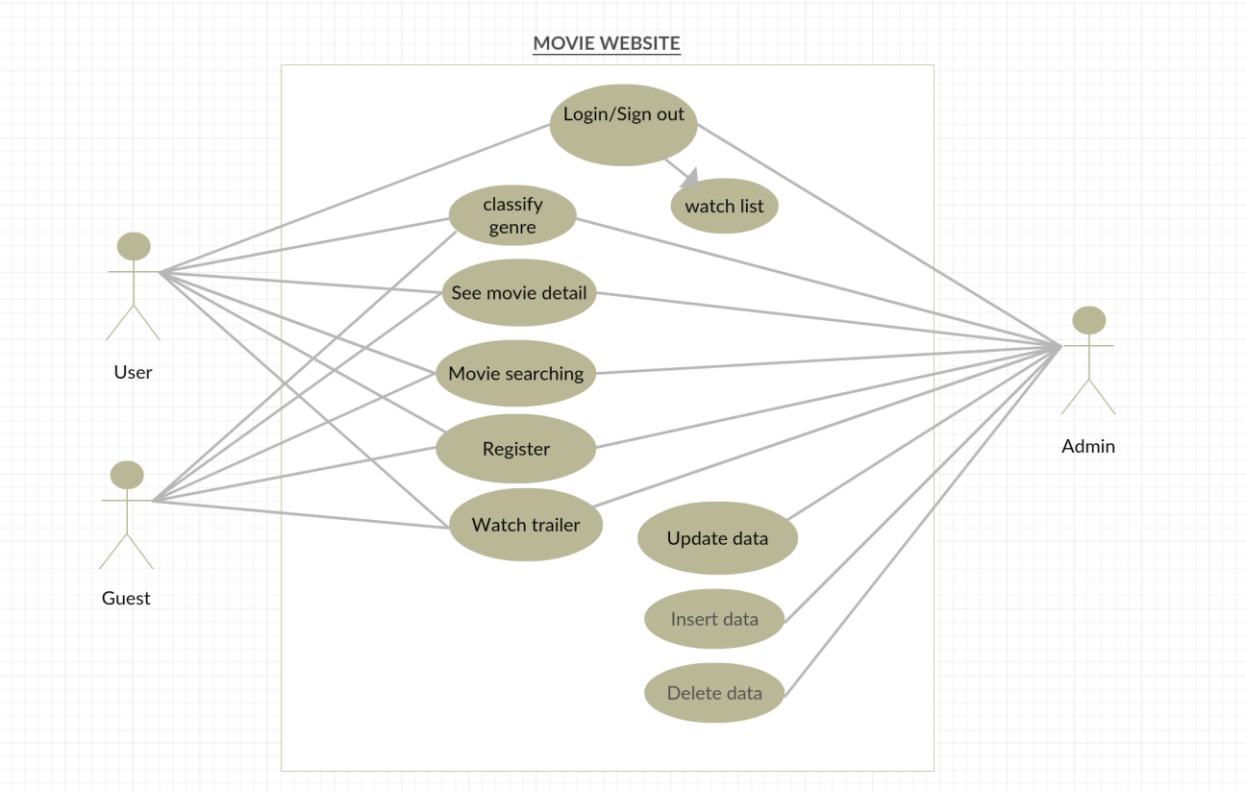
2. Analysis

Based on requirement of the assignment, we decide to design:

- The use-case diagram to implement main activities.
- The sequence diagram to implement specific activities.
- The database with tables, the relation of tables, and keys of tables.
- At least 100 data of movies in Database.
- Apply onpages SEO through website: determine “key words”
  - ✓ Copyright out content.
  - ✓ Content of page: instead of <b>, CSS; instead of <i>, CSS; Page Title with heading tags: <h1>…<h6> instead of CSS;…
  - ✓ Title: contain keyword(s)
  - ✓ Filename: with meaning

III. Design

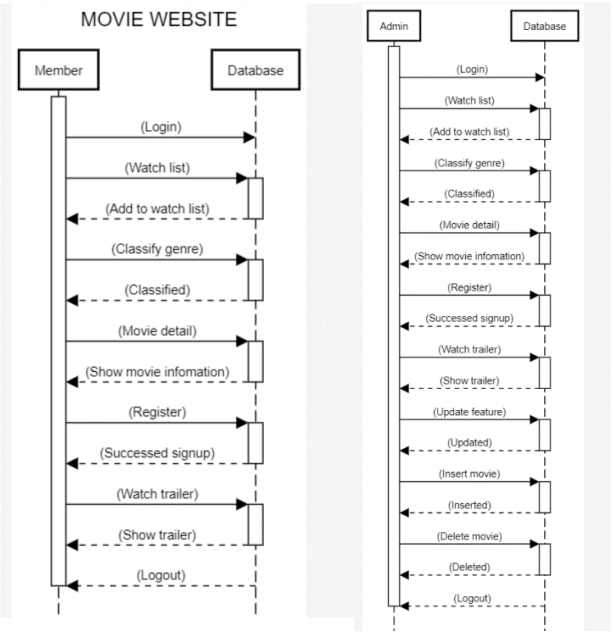
1. Use-case diagram design



We classify users into 3 groups: User, Guest and Admin.

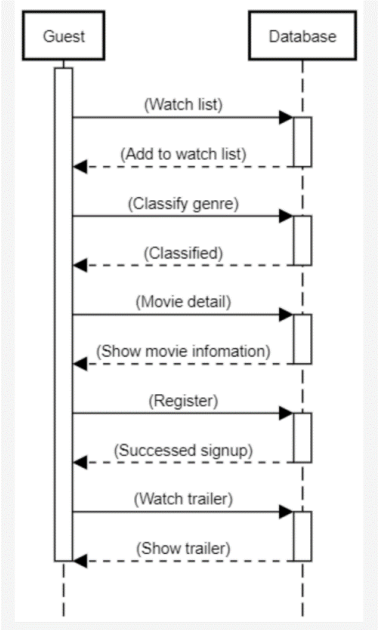
- Guest: a client is a guest without "Login".
  - ✓ Guest can see movie detail: the director of movies, the actor/actress of movies,…
  - ✓ Guest can watch the favorite movie.
  - ✓ Guest can search the movie that he/she concerns.
  - ✓ Guest can classify genre.
  - ✓ For further, guest can register a free account for more feature.
- User: a guest is a user when login.
  - ✓ User has all of guest function.
  - ✓ User can create the watch list, that can store the list of favorite movies.
- Admin: a admin has all of function of this website.

2. Sequence diagram

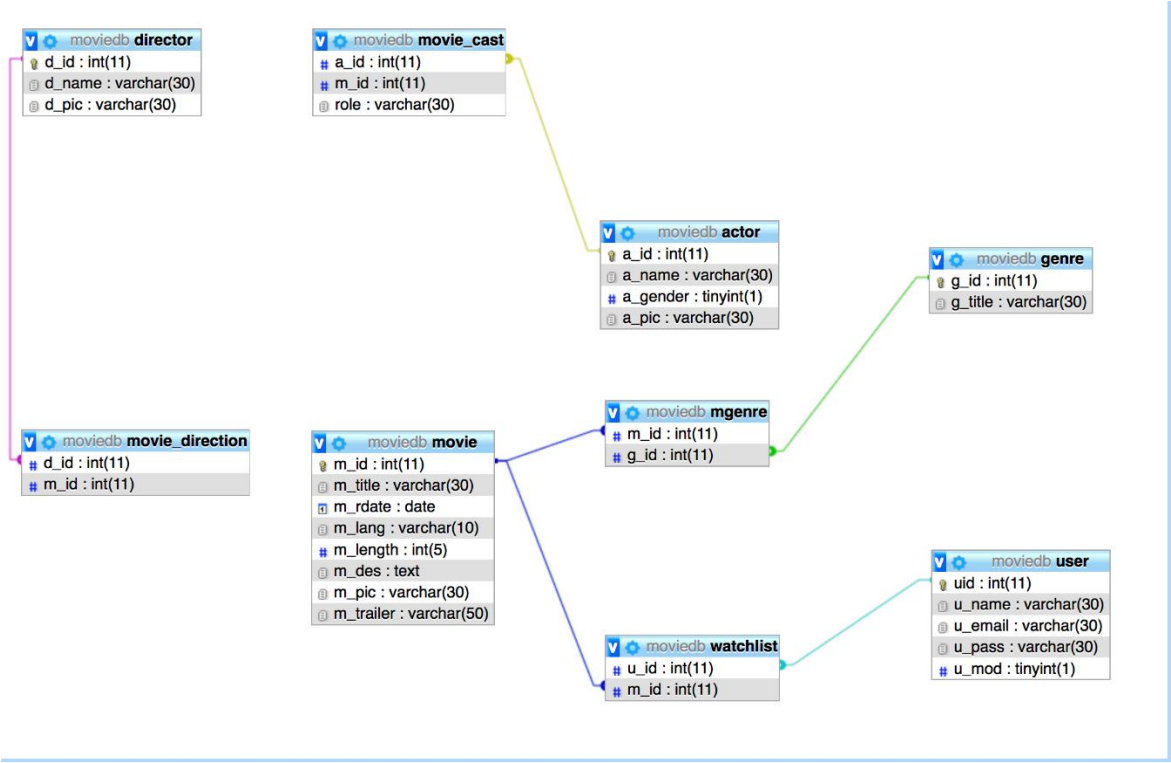


This diagram describes more clearly about the function of each group. These picture above show that Admin has all function to adjust the website when Member cannot update, insert or delete data in the in website.

Guest group is the limited one, which cannot add the movie into watch list and profile data of user.



3. Database design



There are nine main sections of moviedb:

- director: store information of director of movie.
- movie_direction: store id of movie and director.
- movie_cast: store information movie cast.
- movie: store information of movie.
- actor: store information of movie actor.
- genre: store data categories of movie.
- user: store member information.
- watchlist: store data of user movie.
- mgenre: store id of movie and genre.

IV. Implementation

1. Database

Data of movie, actor, director, genre and user: These sections store the data of movie information

user: store data of member

- u_id (integer): id of user.
- u_name (varchar): name of user.
- m_email (varchar): email of user.
- m_pass (varchar): password of user.
- m_mod (tinyint): 0 is user, 1 is admin

movie: store data of movie.

- m_id (integer): id of movie.
- m_title (varchar): title of movie.
- m_rdate (date): release date of movie.
- m_lang (varchar): language of movie.
- m_lenght (integer): time of movie.
- m_des (text): description of movie.
- m_pic (varchar): url of movie picture.
- m_trailer (varchar): url of movie trailer.

director: store data of movie director.

- d_id (integer): id of director.
- d_name (varchar): name of director.
- d_pic (varchar): url of director picture.

actor: store data of actor.

- a_id (integer): id of actor

- a_name (varchar): name of actor.
- a_gender (tinyint): gender of actor.
- a_pic (varchar): url of photo of actor.

genre: store data of movie type

- g_id (integer): id of movie type.
- g_title (varchar): title of type.

watchlist: store data of user movie.

- u_id (integer): id of user.
- m_id (integer): id of movie.

mgenre: store id of movie and genre.

- m_id (integer): id of movie.
- g_id (integer): id of movie type.

movie_direction: store id of movie and director.

- m_id (integer): id of movie.
- d_id (integer): id of director.

movie_cast: store information movie cast.

- m_id (integer): id of movie.
- *a_id (integer):* id of actor

Description:

User

- Primary key: u_id
- Relationship: One to Many with watchlist

Movie

- Primary key: m_id
- Relationship:

- ✓ One to Many with mgenre
- ✓ One to Many with movie_cast
- ✓ One to Many with movie_direction

Director

- Primary key: d_id
- Relationship: One to Many with movie_direction

Actor

- Primary key: a_id
- Relationship: One to Many with movie_cast

Genre

- Primary key: g_id
- Relationship: One to Many with mgenre

Watchlist

- Foreign key: u_id from user, m_id from movie
- Relationship:
  - ✓ Many to One with user
  - ✓ Many to One with movie

Watchlist

- Foreign key: u_id from user, m_id from movie
- Relationship:
  - ✓ Many to One with user
  - ✓ Many to One with movie

Mgenre

- Foreign key: g_id from genre, m_id from movie
- Relationship:
  - ✓ Many to One with genre
  - ✓ Many to One with movie

Movie_direction

- Foreign key: d_id from director, m_id from movie
- Relationship:
  - ✓ Many to One with director

- ✓ Many to One with movie

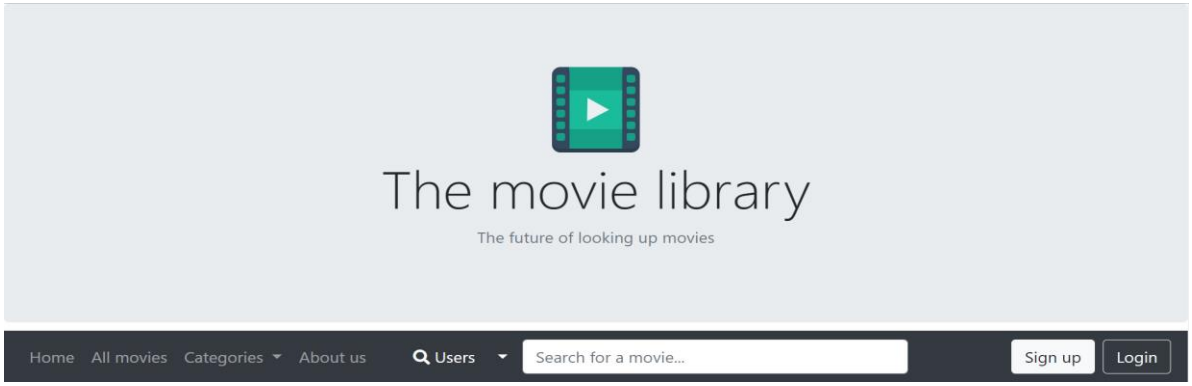
Movie_cast

- Foreign key: a_id from actor, m_id from movie
- Relationship:
  - ✓ Many to One with actor
  - ✓ Many to One with movie

2. User interface

We design the user interface in 3 parts: header, body and footer.

2.1 Header

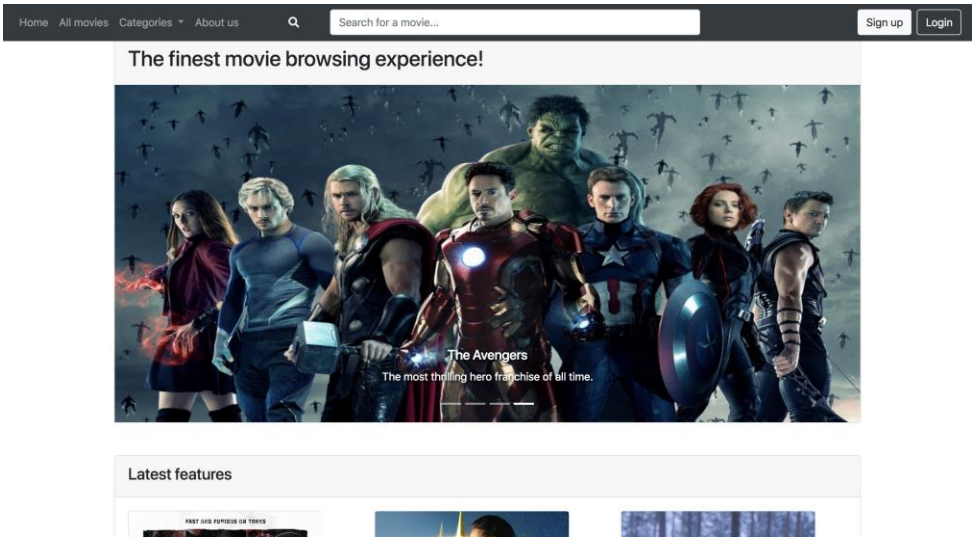


In the header, we design our website name, the toolbar that include:

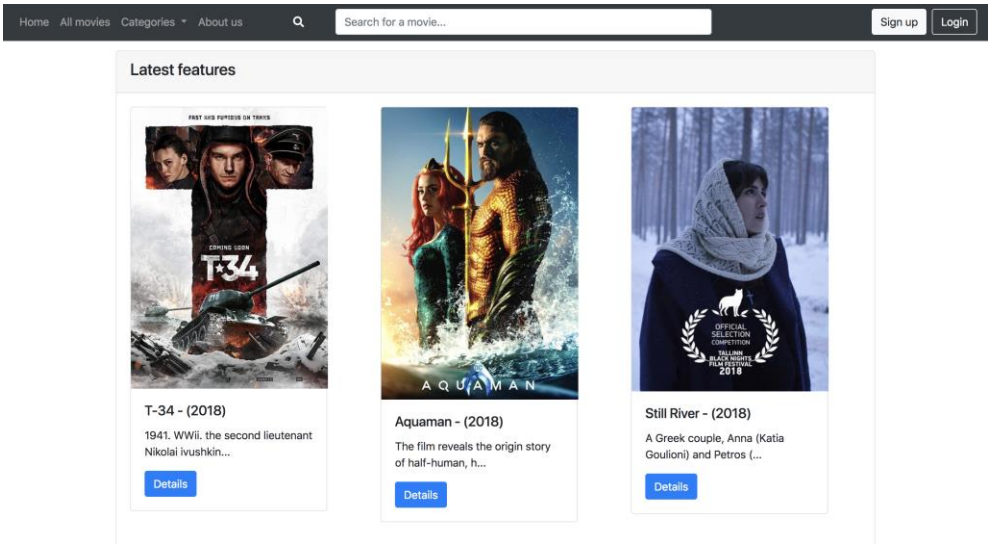
- Home: back to main site.
- All movies: show all movies.
- Categories: classify movies and show category films.
- About us: information of us.
- Search bar: find name of the movie.
- Sign up: register for new user.
- Login: login.

2.2 Body

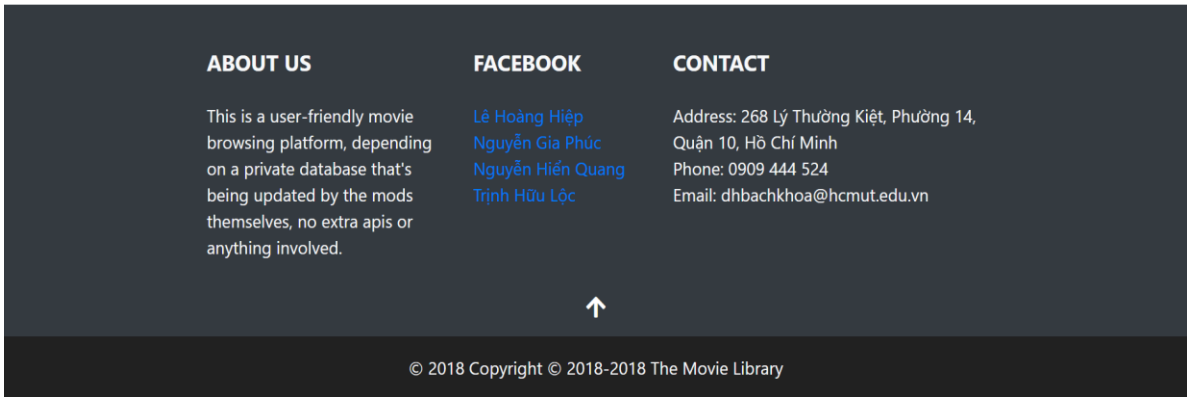
- Advertisement: this field to advertise new movies or news.



- Lastest movies: this field will display the top of lastest movie according to m_date() in Database.



2.3 Footer



In the footer, we design the information of our group such as: facebook, contact,…

3. Architecture

- Signup: users must fill all compusory field when registering
  - ✓ Username field
  - ✓ Password field
  - ✓ Repassword field

  The users must make sure that the username is unique, if not they cannot sign up the new account.

  Password and Repassword must be same, each includes at least 5 characters, 1 number and 1 caplock character.

  Encrypting password before inserting to Database.

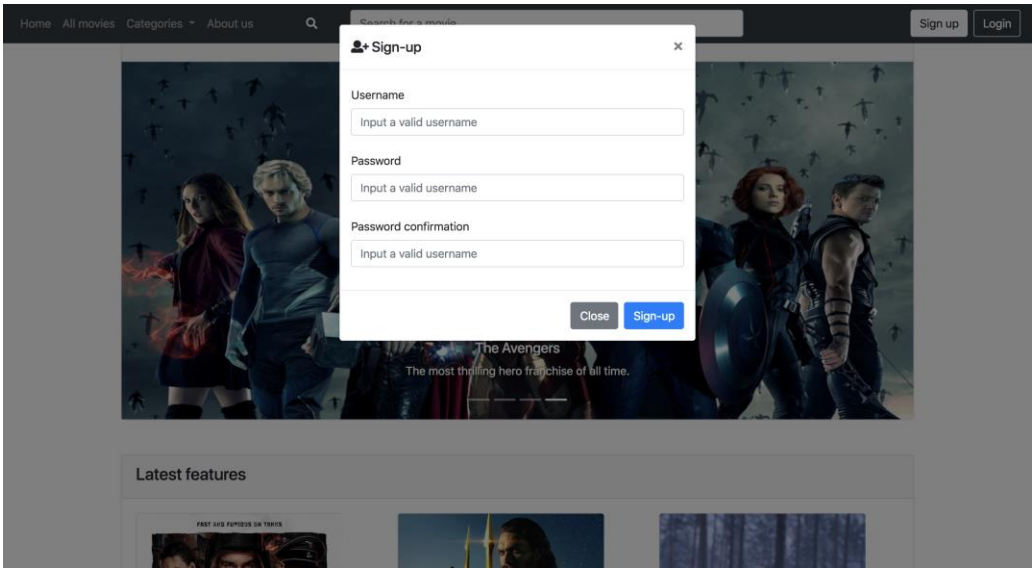
- Login: users fill the form includes: username field and password field to control their account.

- Search: users search based on the name of movies
  Example: if users input “a”, all of movies which has the first character “a” will appear.

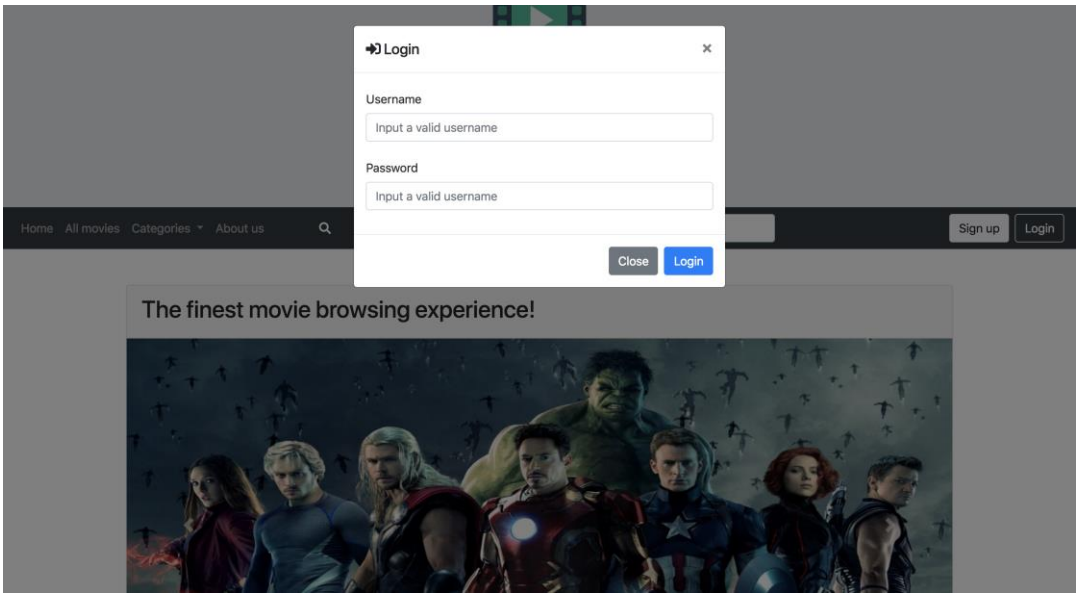
- Show top of newest movies: this feature will show the top of 10 movies newest in Database for users.

V. Testing

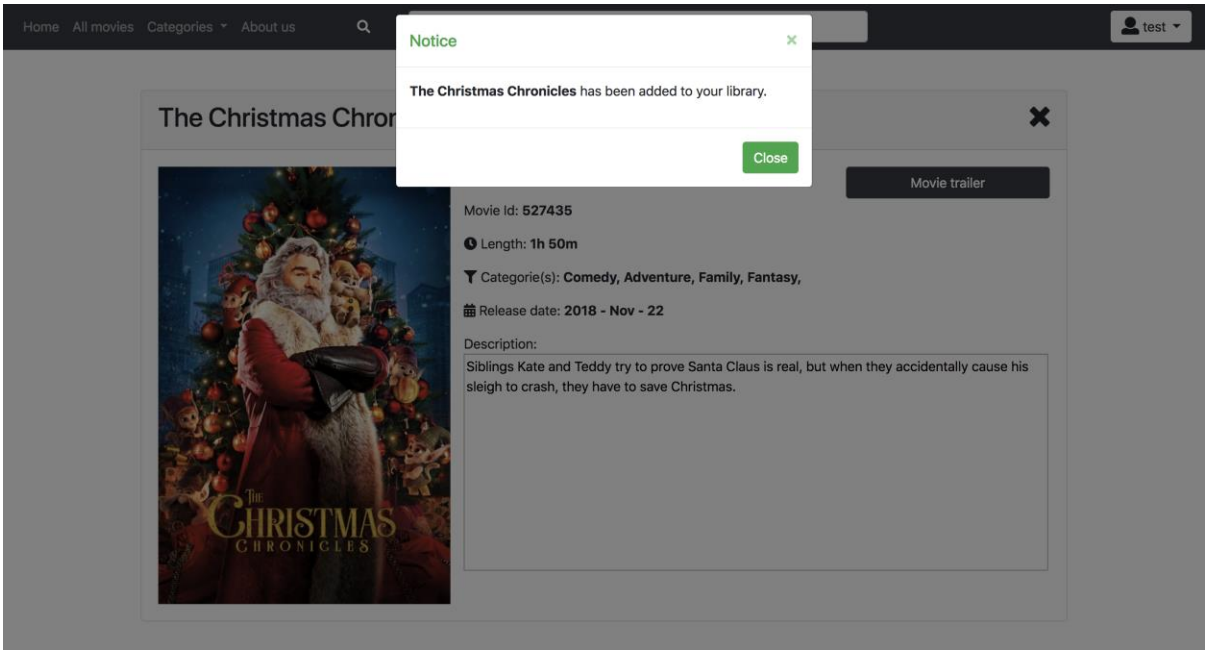
- User register to become website member.

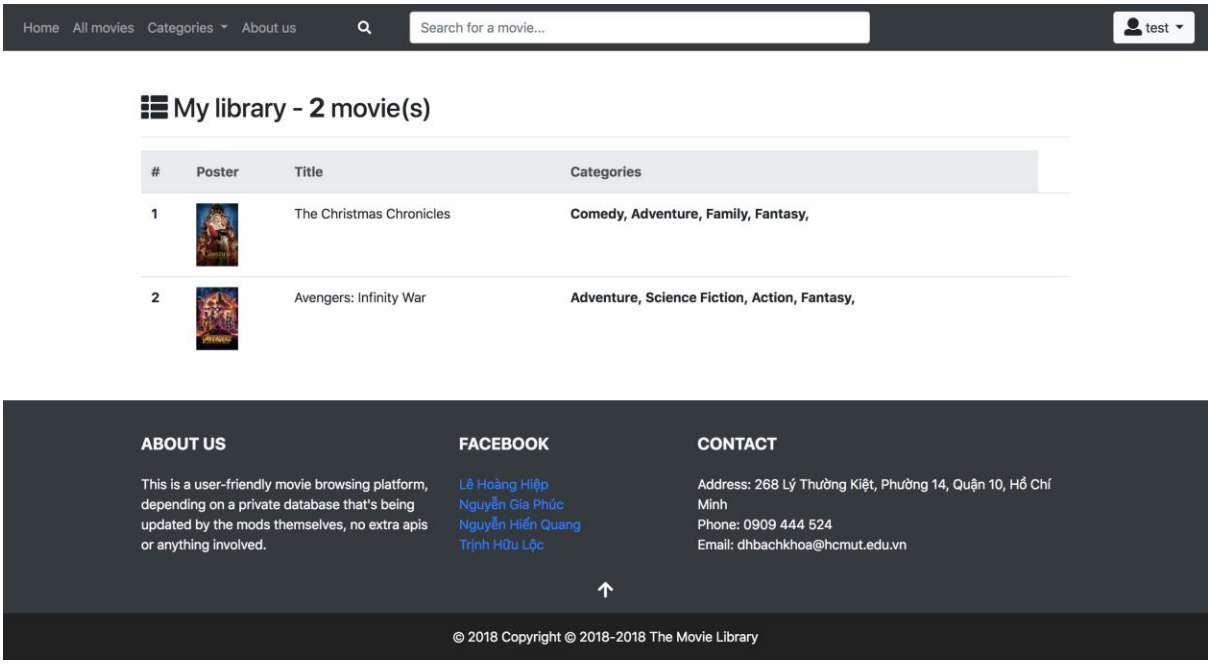


- After register succeeded, user can login into movie website.



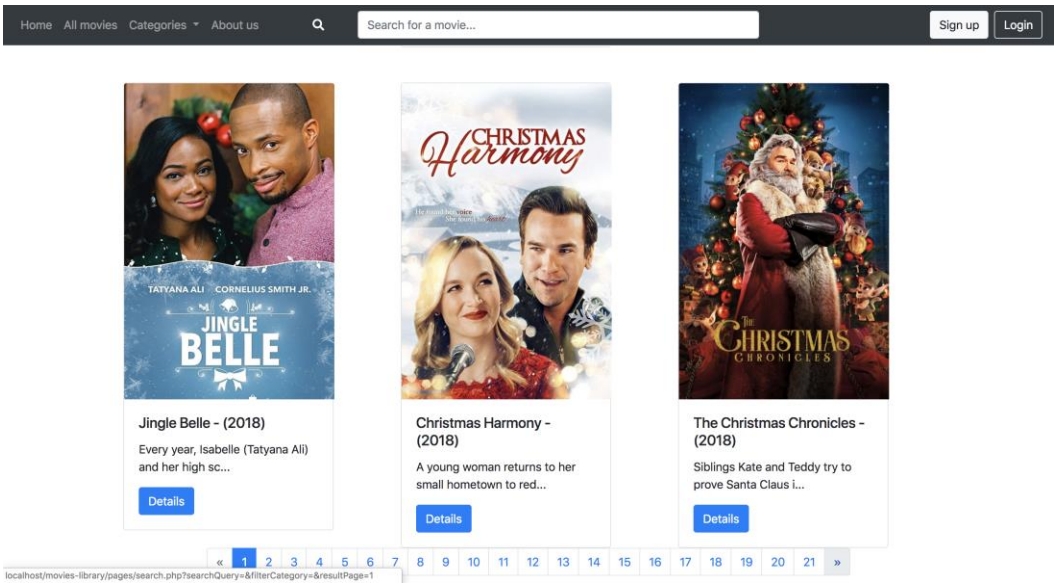
- Watch List – where user can add their movie into queue



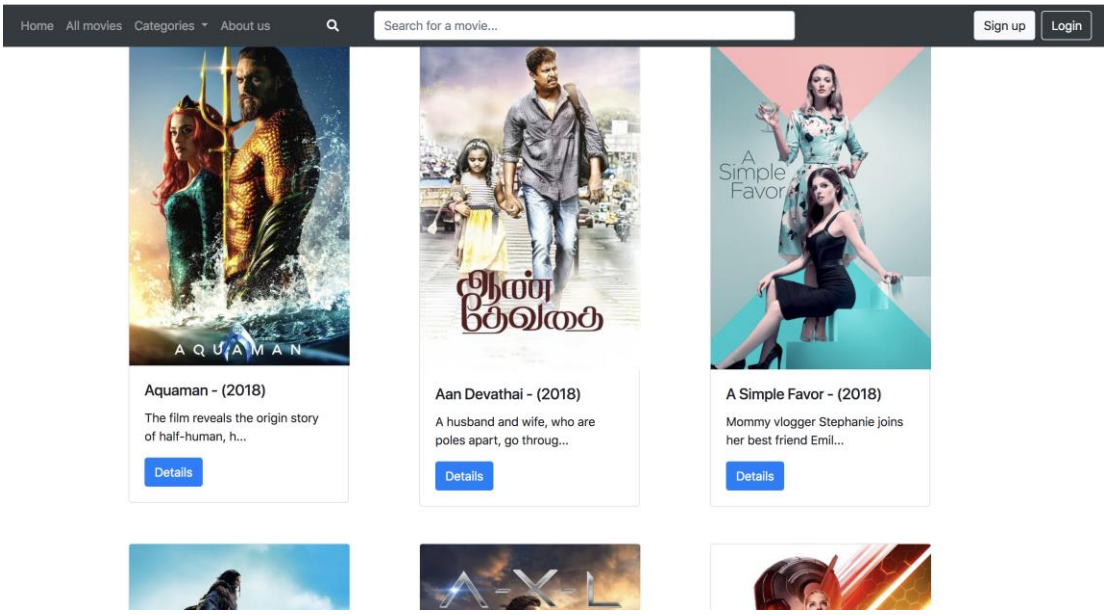


- User can check movie information of the movie.

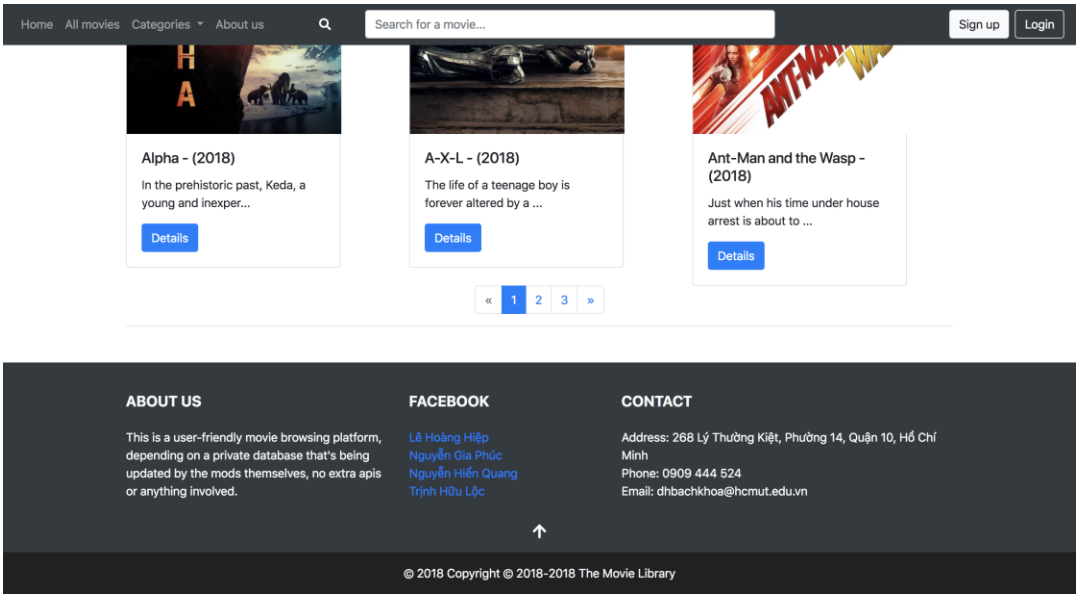
- Pagination.



- Search engine for specific movie – example letter ”a”.



- User can contact with admin for advertising or donating.



VI. Maintenance

PROS	CONS
Website content more than 100 movie.	UI cannot delete movie in their watch list.
Friendly interface with user.	User accessibilities is limited.
All listed cases is solved.	When sign up, information requirement is basic and not secure.
Using PHP, MySQL, CSS3, HTML5, Javascript.	
Movie list is shown when user find name.	
Various of movie type and each categories has movie to select when searching.	

Website features:

1. UPDATE NEW CONTENT

- Update more movies and directors.
- New theme for web interface.
- Add more features for users to ultility:
  - Download movie.
  - User can add movie to waiting queue.

2. UPDATE DATABASE

- Add feature for Member can adjust their watch list
- Sign up adds more information for security.