QTLAND

Web programming Report

Students:

SOHAYB SHAYEB
AMEEN KHARMA

Supervisor: DR. SUFYAN SAMARAH

Section: 10 - 11

Contents

Contents Table ……2

Figures Tables …… 3

Abstract …… 5

Introduction …… 5

Functional Requirements …… 6

Detailed Functional Requirements ……7

Non Functional Requirements ……9

Development tools……11

Use case Diagram…… 12

Class Diagram ……13

Seq Diagram I ……14

Seq Diagram I ……15

Scenario ……16

Seq Diagram II ……17

Scenario ……18

Seq Diagram III ……19

Scenario ……20

Program Management ……21

Client Server Arch ……22

Data Base ……23

Acceptance Test……26

Website Demo……27

References ……37

Figures 1

Fig1: Use Case Diagram 12

Fig2: Class Diagram 13

Fig3: Sequence Diagram I..... 14

Fig4: Sequence Diagram I 15

Fig5: Sequence Diagram II 17

Fig6: Sequence Diagram III 19

Fig7: Program management.....21

Fig8: Cleint-Server.....22

Fig9: Login Table 23

Fig10 Movies Table 24

Fig11 Movies Table with data 24

Fig12 Feedback Table 25

Fig13 Feedback Table with data.....25

Fig14 Homepage while not logged in 27

Fig15 Today movies choice 27

Fig16 Now in Cinema Movies..... 28

Fig17 The footer 28

Fig18 Movie page while not logged..... 29

Fig19 Movie Trailer&photos..... 29

Fig20 Homepage when login 30

Fig21 Movie page when login.....29

Fig22 Add a fav movie to my list 31

Fig23 After Adding the fav movie 31

Figures 2

Fig24 Login as new user 32

Fig25 Confirmation message 32

Fig26 Feedback form 33

Fig27 Admin page 34

Fig28 Feedbacks 35

Fig29 About us 36

Site Users:

- Admins.
- Users.
- Movie/TV show fans.

Abstract:

Our project is an online library of Movies and TV shows, it includes details such as casting, synposis, Box office earnings, running time, budget, trailers, images, and rating (Critics rating).

User can find a list of the movies running now in cinemas and theatres worldwide, a list of highest grossing movies of all time and he can also search for any movie/TV show he likes ,he can then watch or download any movie.

Introduction:

In this report we will describe the functionality of our website, we will describe all the functional and nonfunctional requirements.

Then we will talk about the Use case , class and sequence diagram, after that we will mention how we manage our project and how did it take to finish it.

Finally, we will talk about the data base using MySQL which contains all of the site's records in tables.

Functional Requirements:

- User shall go to the homepage, view details such as name, running time, genre and release date about the most recent movies (box office hits).
- User shall have the option of signing in to create his own account and he will be able to make his own list of movies he likes the most, edit the list anytime and track everything he wants. Also he can send feedbacks so the admins can view them and hear about the users opinions.
- User shall be able to search for any movie or TV show.
- User shall be able to view all the movies and TV shows with much **details** such as Box office earnings, Budget, release date, actors, directors, genre, running time, age restriction, trailer and some cool photos.
- User shall be able to watch any movie or even download it in any resolution he finds good.
- Critics rating: based on the published opinions of hundreds of film and television critics which is a trusted measurement of movie and TV programming quality for millions of moviegoers.
- User shall be able to visit the site's Facebook and twitter pages so he can view photos, trailers, trivia, casting updates and news about all upcoming movies or TVshows.
- User shall be able to view information about our site and it's work team .
- User shall be able to know about all other external sources and sites.
- Admin shall be able to add movies/TV shows to the website and edit them.
- Admin shall be able to view all the feedbacks sent to them.

Detailed Functional Requirements:

- ## Home page:

Any person can visit our site, he can find Today's best choice movies which is a list of movies chosen randomly from the data base, also he can view the best earning movies running in the cinema (Box office Hits) depending on Todays date, clicking on any movie from the previous movies lists will show that movie's page with much **details** we will explain in the **admin page.**
There is a login button to register with your email and password so you can login as an admin or a user.
When login as an admin, you will be automatically sent to the **admin page.**

From the footer user can send feedbacks and his opinion about the site, view information **about** our site, external links and the ability to visit the site's Facebook and twitter accounts .

- ## Admin page:

To add a movie to the website, you must login as an admin then you will be filling all these **details**:

- Movie Type: is he adding a movie or a TV show.
- Episodes: number of the TV show episodes.
- Genre: Action, Drama, Horror, Thriller, Science fiction, Romance, comedy, adventure….
- Release date: When it is released.
- Director: The movie/TV show Director who directs the movie may writes the scenario.
- Starring: Movie/TV show Actors and actresses.
- Age restriction: Age limit to watch the movie, to tell if is it good for kids, teens and family or not.
- Budget: what it costs to make the movie, and is usually the one being compared against the box office returns.

- Box office: how the much the movie gained in the cinemas.
- Synopsis: The story of the Movie/TV Show.

Also admins can view all the feedback sent by the users to hear about their opinions so they can improve the websites experience, add some new features or correct some mistakes in the movie/TV show details and information.

- ## User shall be able to search for a movie:

  When **search**ing for a movie or TV show, you will get all the movies/TV shows that match your search. When you click that movie/TV show the movie/TV page will pop up containing all the details about that movie with some cool photos.

  If you are logged in you will have an option to add that movie to your favorite list and watch that movie or even download it.

- ## Watch movie:

  When the user clicks watch now, he will be visiting a new site to watch that movie or even download it for free. If the link doesn't work properly or the site doesn't have that movie available, the user can find other sites by clicking **external links** in the **about us** section in the footer area.

- ## Movie Rate:

For our rating system, we consider not to make our own system due to unreliability. Therefore, we connect our website to a reliable source of information, which is IMDB - the biggest movies/TV shows website-.

To keep our website ratings up-to-date, we directly connect it to the IMDB Rating system. IMDB offers a plugin to view a rating of a certain movie, but it was unsuitable for our design and trend, so we break the code, get the API request, create our own design and plugin, an up-to-date plugin created to suit our website. Making our website rating system dynamic per movie and fixable to our customer needs.

- ## All Movies /TV shows:

Movies: A list of all movies in our site, clicking any movie will send you to that movie page with all the previously mentioned details.
TV Shows: A list of all TV shows in our site, clicking any TV/show will send you to that TV Show page with all the previously mentioned details.

NonFunctional Requirements:

- ## Availability:

Our web site should be available 24/7, so the user can always be tuned in with his favorite movies and TVshows,

- ## Privacy:

Our site shall prevent any private user data to appear in public and no one can see his watch list of favorite movies.

- ## Usability:

Our site shall be a user friendly and easy to use, so the user can search or review any movie/ TvShow easily.

- ## Dependability:

Our site information should be based on reliable, published sources, making sure that all majority and significant minority views that have appeared in those sources are covered.

- ## Portability:

Users can visit our website directly from their mobile phone as long as they have the access to internet.

- ## Security:

Only admins can add/edit the sites data users can only review the sites, add movies to their favorite list and send feedback.
All data will be stored in a secure data base with my SQL.
To protect against unauthorized access to the user password his computer. The user can logout when finished using a shared computer.

- ## Safety:

Users is safe against spammers or annoying advertisements.

Development Tools:

Designing:

Argo UML(Use-case,Class diagram, sequence diagram).

DataBase:

MySQL.

Web programming languages:

HTML,CSS,JavaScript,JQuery/Ajax,PHP.

Server:

Wamp,Xampp.

Host:

Co.nf

Use Case Diagram:

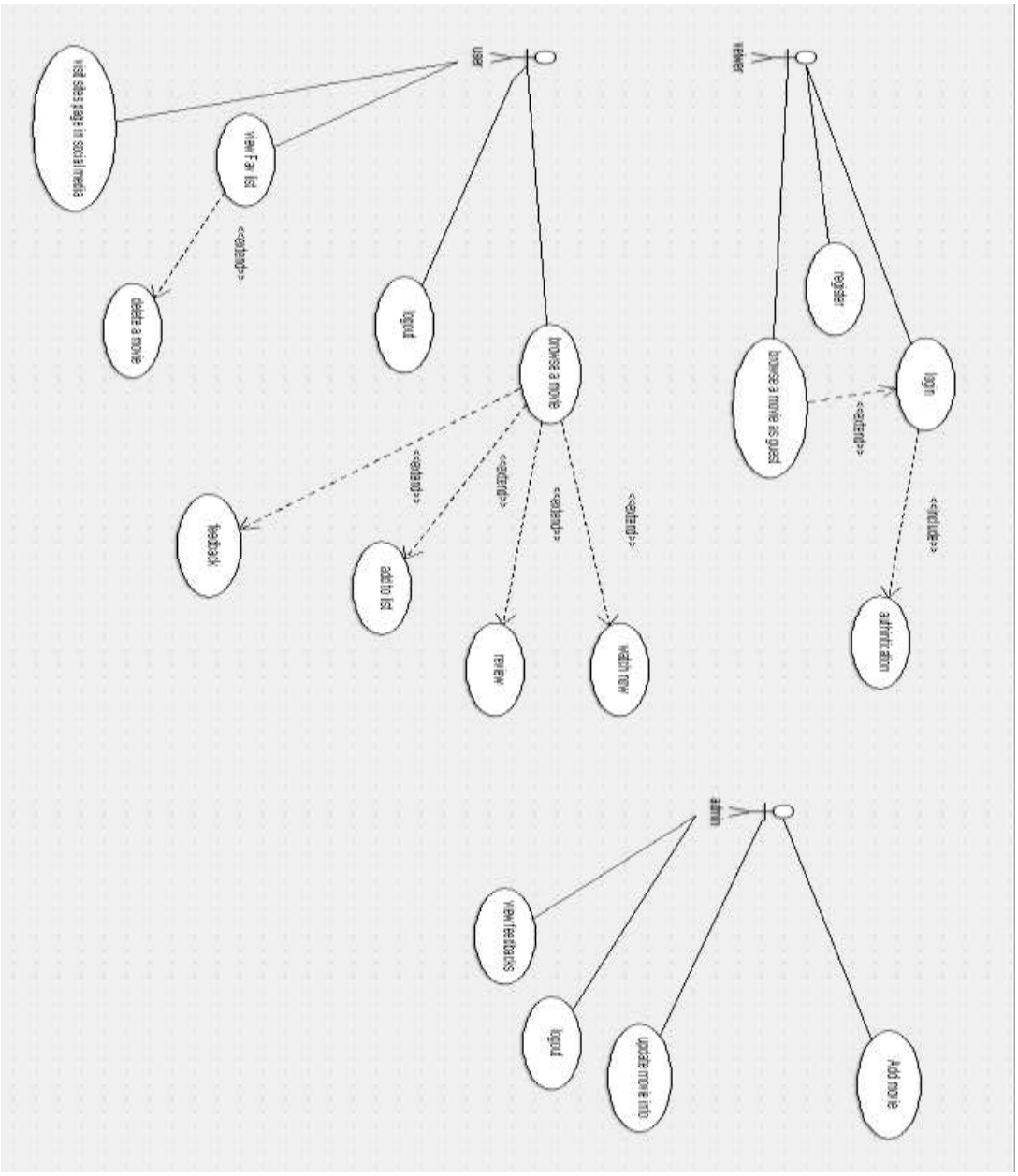

Figure 1

Class Diagram:

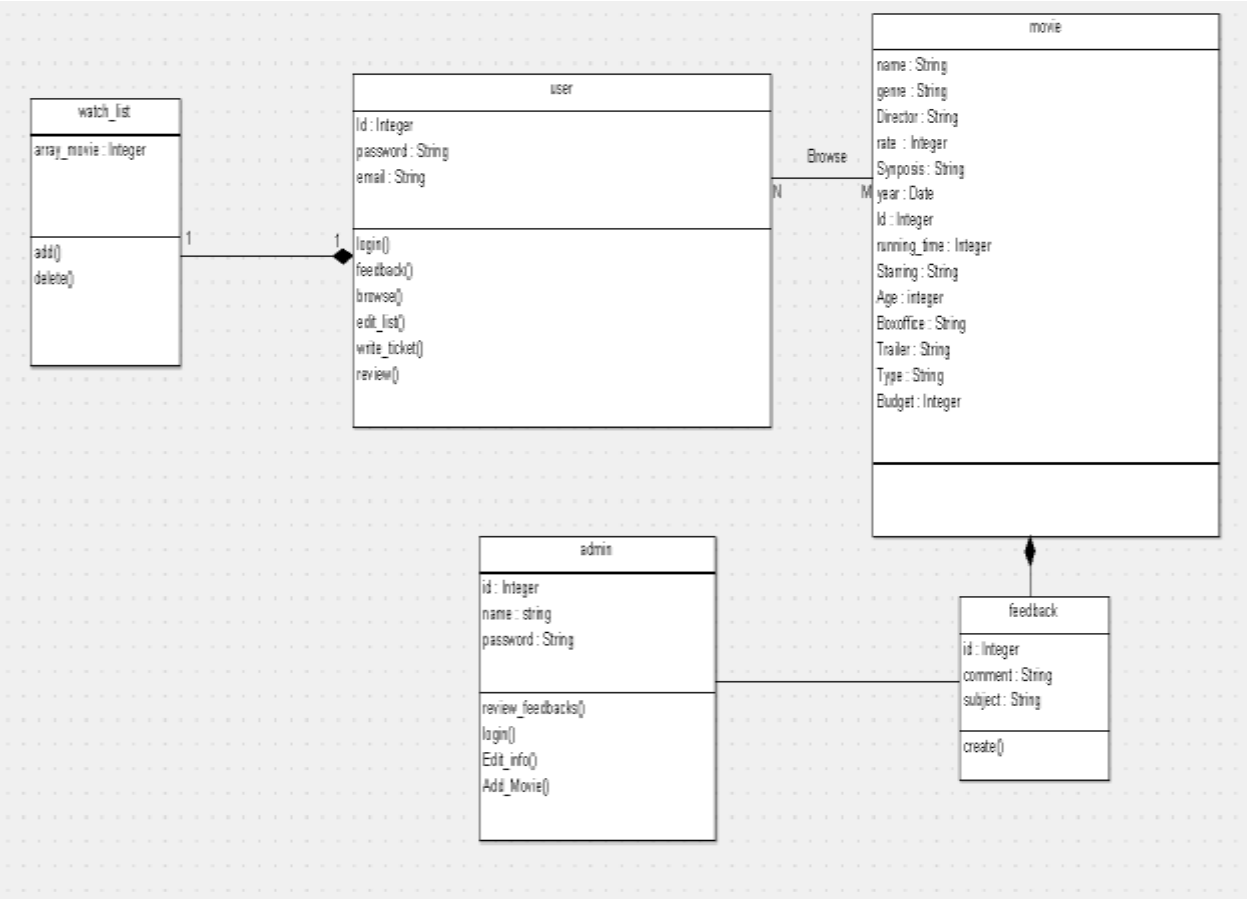

Figure 2

Sequence Diagram I:

In this case a user will visit the site in order to find a movie to watch

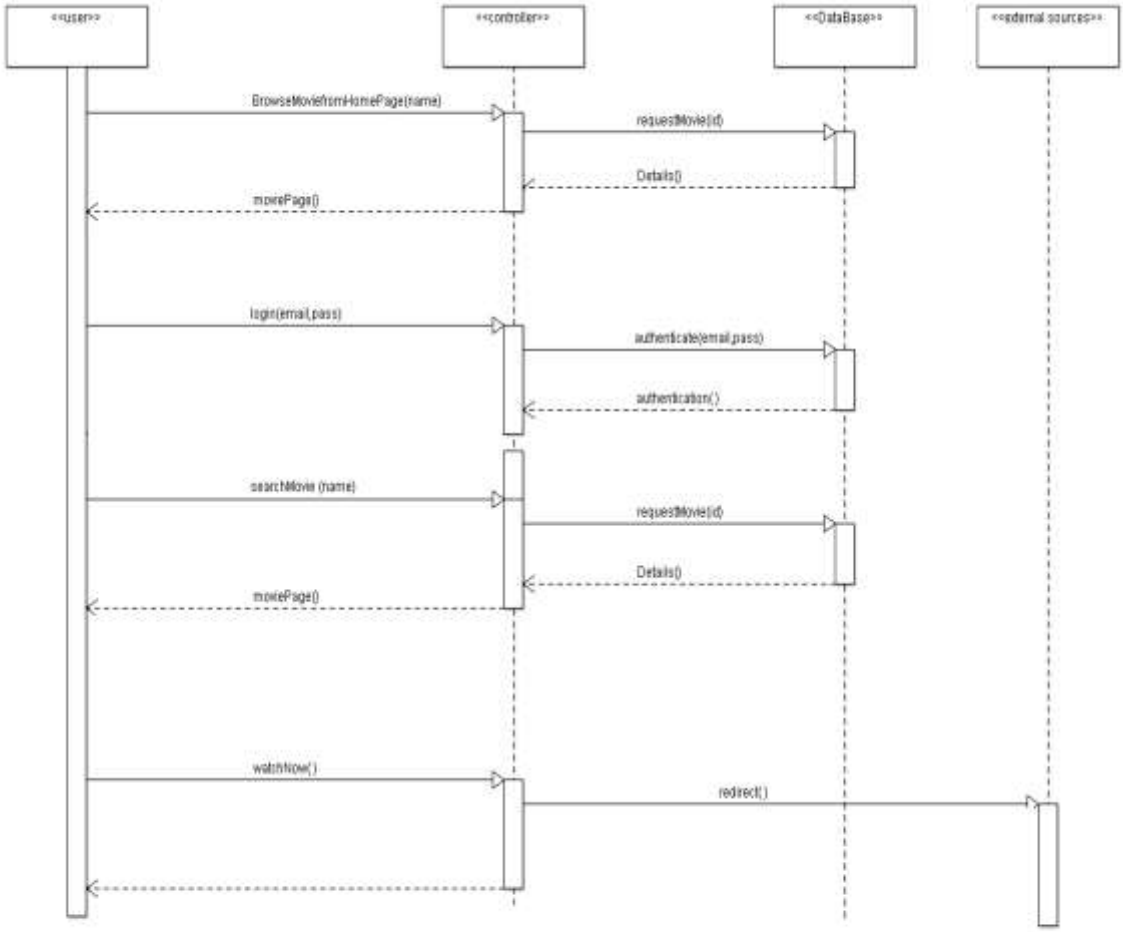

Figure 3

<<Database>> is a controller which is directly connected to the database

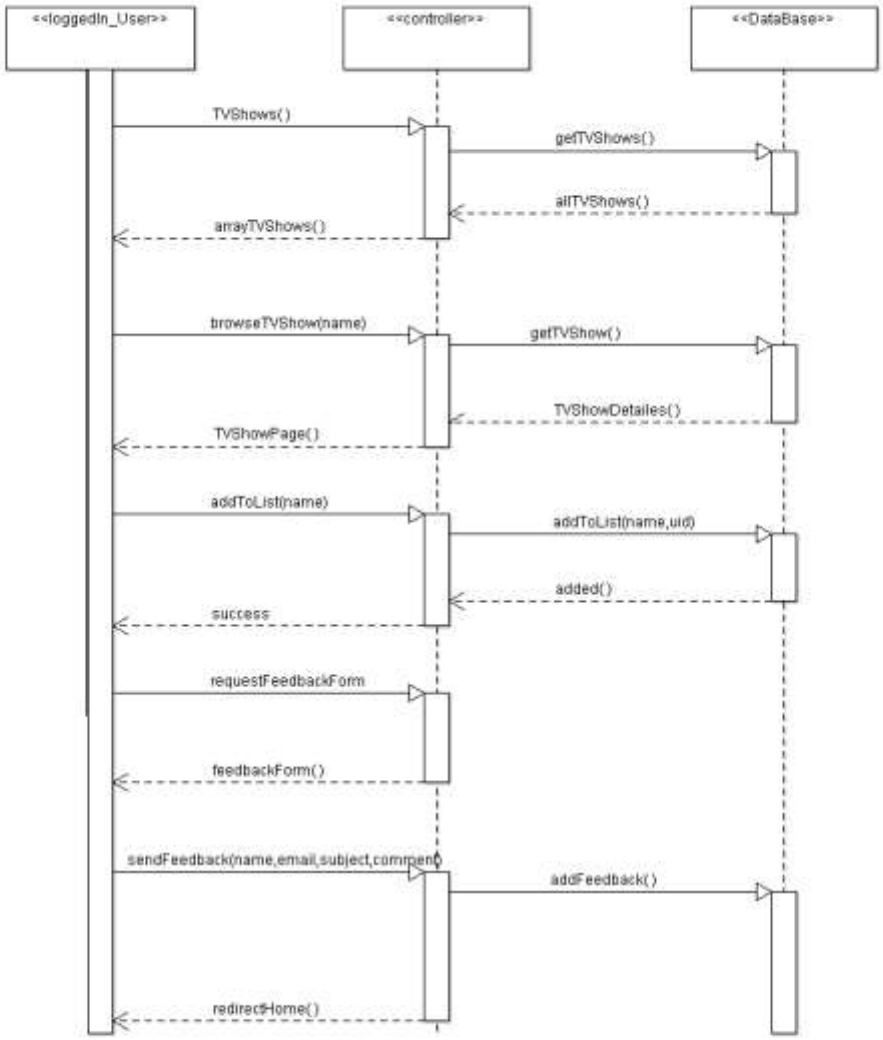
<<loggedIn_User>>
<<controller>>
<<DataBase>>
TVShows()
getTVShows()
allTVShows()
arrayTVShows()
browseTVShow(name)
getTVShow()
TVShowDetailes()
TVShowPage()
addToList(name)
addToList(name,uid)
added()
success
requestFeedbackForm
feedbackForm()
sendFeedback(name,email,subject,comment)
addFeedback()
redirectHome()

Figure 4

Scenario:

- A user will visit the site.
- He clicks on a movie from now in the cinema.
- He will be redirected to that movie page.
- The user is not satisfied with that movie so he decides to search for a movie he heard about.
- The user login to his account.
- He searches for that movie.
- He finds that movie and clicks it.
- He will be redirected to that movie page.
- He reads some of the details .
- The user is interested in that movie so he decides to **watch** it **now.**
- When clicking watch now the user will be redirected to another site to watch that movie.

- After done watching the user go back to QTland our site.
- He clicks TV Shows.
- He will be redirected to all the TV Shows in our site.
- He finds a good TV show so he clicks add to my list.
- The TV show will be added to the data base.
- A message with ‘added successfully’ will be shown.
- Add to my list button will disappear.

- The user decides to give us his feedback.
- He clicks feedback.
- He writes his name, the subject and his comment.
- The feedback will be stored in the data base so the admins can view them.

Sequence Diagram II:

In this case we will explain how the login works.

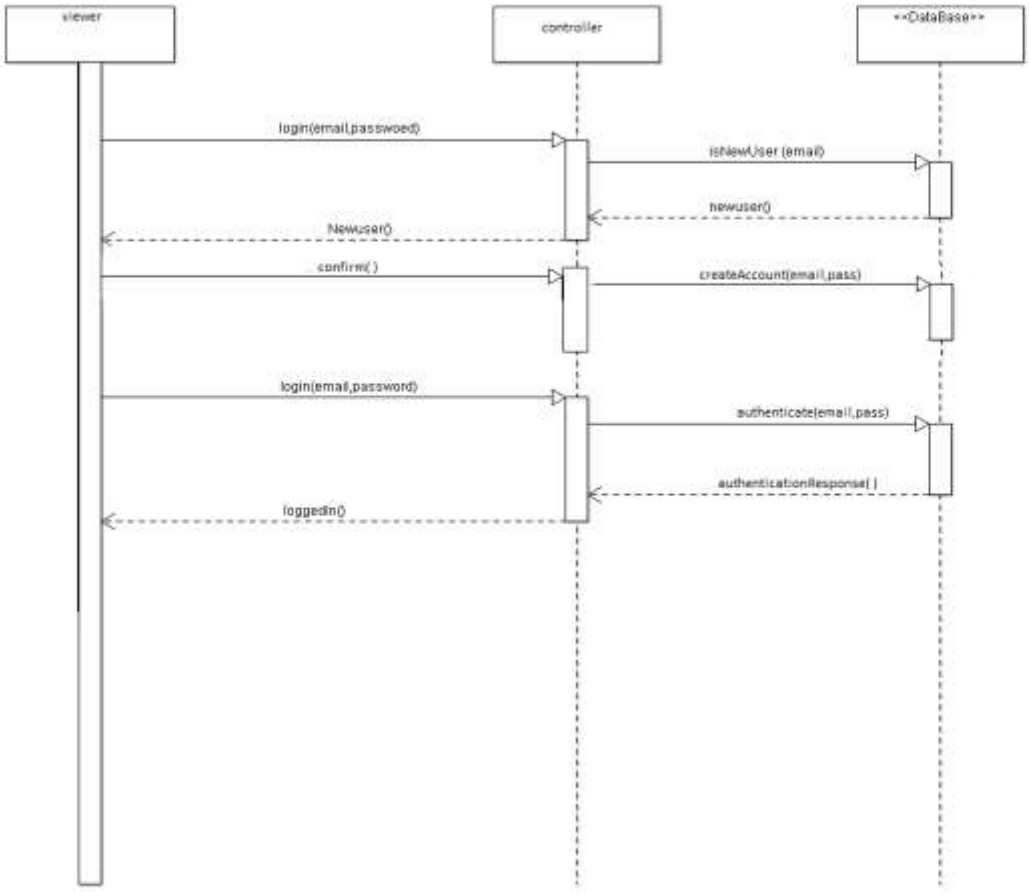

Figure 5

Scenario:

- A person will visit the site.
- He clicks login.
- He enters his emails and password.
- A message ‘confirm a new user’ will pop up.
- He clicks yes to confirm he’s a new user.
- A new account will be added to the database.
- He will be redirected to the home page.
- He login with his new account.
- If the password and email are right a session will works so these buttons will be shown in the site: logout, watch now, add to my list.
- If the password is wrong he will get a message ‘wrong password’.
- If the email is wrong the confirmation message will popup.
- He is not a new user so he will click No.
- He will be redirected to the home page to try and login again.

Sequence Diagram III:

In this case we will explain how the admin login, add a movie to the site and view the users feedbacks.

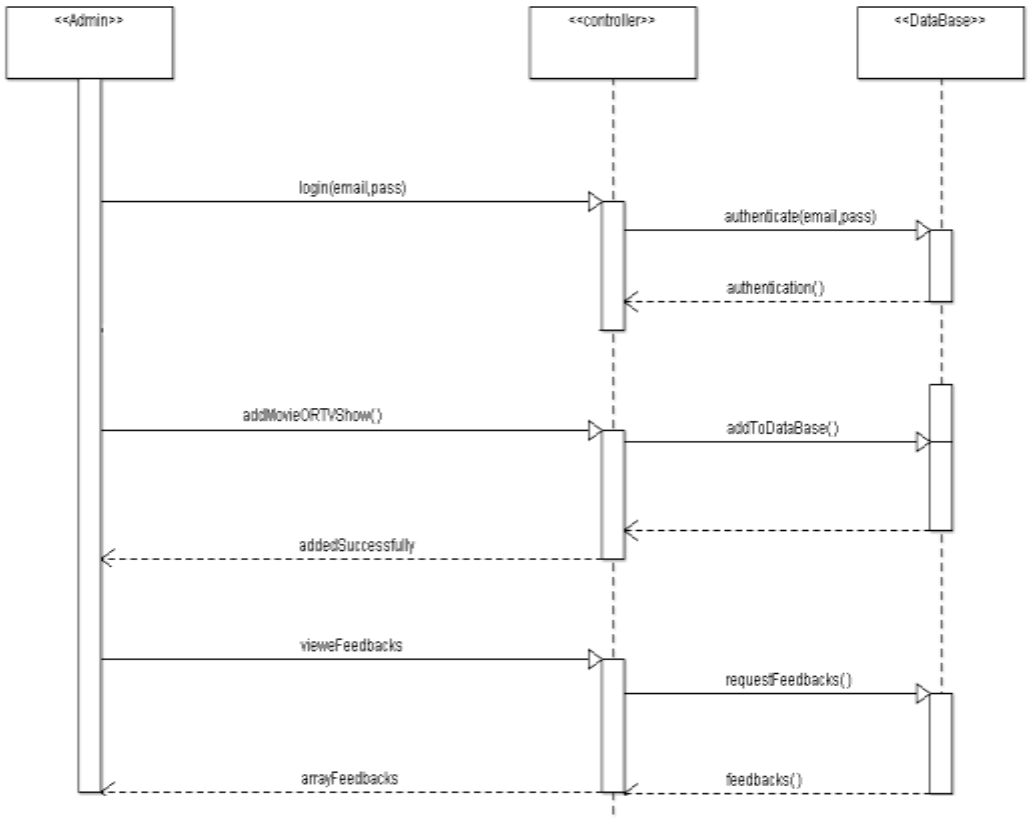

Figure 6

Scenario:

- An Admin will visit the site.
- He clicks login and register with his account.
- If there is something wrong the previous scenario will occur.
- If his email and password are right he will be redirected to the admin page.
- He has the option to add a movie/TVShow, view the feedbacks or logout.
- He decides to add a movie.
- He fills all the details of the desired movie.
- He clicks send.
- A message of ‘added successfully’ will pop up.
- He will be redirected to the admin page again.
- He has the option to add another movie or view the feedbacks.
- He clicks feedbacks.
- He will be redirected to all users’ feedbacks.
- Every sent feedback with it’s user sending date will be shown.

Project Management:

In this project we worked together via Skype and at the college , we started by gathering some information about online movies and TV shows libraries ,we visited some sites like iMDB and rotten tomatoes to have a look at their functionalities ,features and services they provide.

We designed the Use case and the class diagram, then we started to work on the design of the project. After we finished the design we started working on the PHP code with the JavaScript, after all that is done we wrote MySQL to connect our site with the Database .Then we designed the sequence diagram of our site. After that we could successfully add some movies to our site.

When the site is nearly finished we tested our work by allowing some students and friends to visit our site, login, and search for movies and so on to hear about their opinions to make our site better and add some new features to provide a better customer experience.

All the work occured in April/2017 with some previous preparations.

Task Name	Duration
Gathering information	3 days
Functional Requirements studying	2 days
Use Case, Class diagram	1 day
The design and working on CSS/Html	13days
PHP	3 days
MySQL and adding data	4 days
Testing ,reviewing the website and adding some new features	4 days
Sequence diagram	1 day

Figure 7

Client –Server architecture :

Client/server architecture is a producer-consumer computing architecture where the server acts as the producer and the client as a consumer. The server houses and provides high-end, computing-intensive services to the client on demand. These services can include applications access, storage, file sharing, printer access and/or direct access to the server's raw computing power.

Client/server architecture works when the client computer sends a resource or process request to the server over the network connection, which is then processed and delivered to the client. A server computer can manage several clients simultaneously, whereas one client can be connected to several servers at a time, each providing a different set of services. In its simplest form, the Internet is also based on client/server architecture where the Web server serves many simultaneous users with Web page or website data.

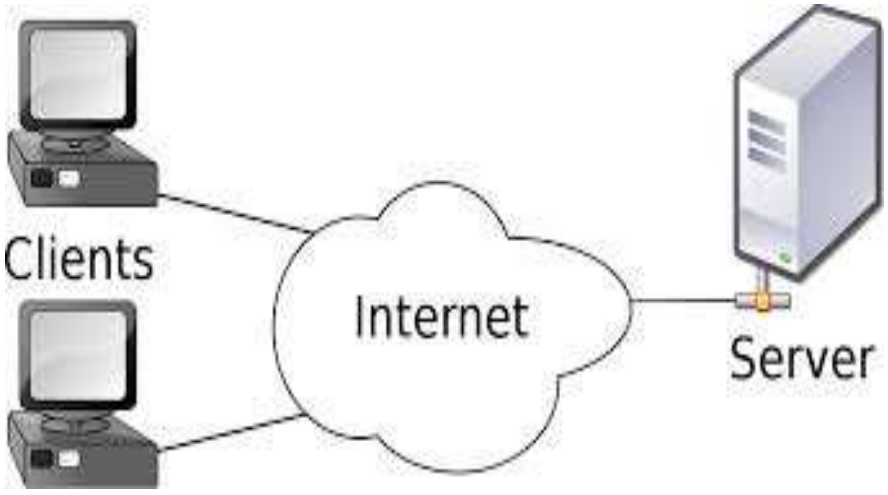

Figure 8

Data Base:

For our data base ,we used MySQL as a platform .

Our system is not that complex so it's easy to understand what's going on for the use or anyone who visits our site.

We created 3 tables:

- Movie: all the movies/TV shows in our site with all its data.
- Login: all the users and admins emails with their passwords.
- Feedback: the email of the users who sent feedback , their names, the subject, the comment and when they sent it(date).

A fourth table will be required for 'add to my list' containing the user's favorite movies, it's not done yet, we will work on it in the future ☺

Login Table

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	User_Id	int(50)			No	None	AUTO_INCREMENT	Change
2	Password	varchar(1024)	latin1_swedish_ci		No	None		Change
3	Email	varchar(50)	latin1_swedish_ci		No	None		Change

Figure 9

Movies Table

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	movie_id	int(50)			No	None	AUTO_INCREMENT	Change
2	Movie_type	varchar(1024)	latin1_swedish_ci		No	None		Change
3	Episodes	int(50)			No	None		Change
4	Director	varchar(1024)	latin1_swedish_ci		No	None		Change
5	Age	varchar(1024)	latin1_swedish_ci		No	None		Change
6	Starring	varchar(1024)	latin1_swedish_ci		No	None		Change
7	Genre	varchar(1024)	latin1_swedish_ci		No	None		Change
8	Running_Time	varchar(50)	latin1_swedish_ci		No	None		Change
9	Budget	varchar(1024)	latin1_swedish_ci		No	None		Change
10	Box_Office	bigint(255)			No	None		Change
11	Movie_Name	varchar(50)	latin1_swedish_ci		No	None		Change
12	image	varchar(1024)	latin1_swedish_ci		No	None		Change
13	synposis	longtext	latin1_swedish_ci		No	None		Change
14	Rate	varchar(255)	latin1_swedish_ci		No	None		Change
15	URL	varchar(50)	latin1_swedish_ci		No	None		Change
16	wallpaper	varchar(255)	latin1_swedish_ci		Yes	NULL		Change
17	image1	varchar(255)	latin1_swedish_ci		Yes	NULL		Change
18	image2	varchar(255)	latin1_swedish_ci		Yes	NULL		Change
19	image3	varchar(255)	latin1_swedish_ci		Yes	NULL		Change
20	image4	varchar(255)	latin1_swedish_ci		Yes	NULL		Change
21	Release_Date	timestamp			Yes	NULL		Change

Figure 10

movie_id	Movie_type	Episodes	Director	Age	Starring	Genre	Running_Time	Budget	Box_Office	Movie_Name	image	synposis
0	movie	1	Michael Bay	13	Mark Wahlberg, Nicola Peltz, Jack Reynor	Action	165	$210 million	1104	Transformers: Age of Extinction	1	After the battle between the Autobots and Deceptic...
1	movie	1	Christopher Nolan	13	Christian Bale,Heath Ledger,Gary Oldman,Morgan Fre...	Action	152	$185 million	1005	The Dark Knight	1	Set within a year after the events of Batman Begin...

Figure 11

Feedback Table

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	id	int(50)			No	None	AUTO_INCREMENT
2	name	varchar(1024)	latin1_swedish_ci		No	None	
3	email	varchar(1024)	latin1_swedish_ci		No	None	
4	feedback	text	latin1_swedish_ci		No	None	
5	subject	varchar(1024)	latin1_swedish_ci		No	None	
6	date	date			No	None	

Figure 12

	id	name	email	feedback	subject	date
Edit Copy Delete	1	Ameen	ameen2@gmail.com	hi.... my nigga how is it going with the report	important	2017-05-05
Edit Copy Delete	9	osama hino	osama2016@gmail.com	mmm i think news would be a cool new feature to yo...	features	2017-05-06
Edit Copy Delete	7	kamil	222live@hotmail.com	smtimes 2dat bst choice kinda crashed , it shows 5...	bug	2017-05-06
Edit Copy Delete	8	batatatat	ahmed@gmail.com	please add more TV Shows.i guess working on manga ...	TV Shows	2017-05-06
Edit Copy Delete	10	shadi asmer	shadi@gmail.com	cool ....but my site is better hahaha	ss	2017-05-06
Edit Copy Delete	11	sami ahmed	sami@hotmail.com	such an amazing website, with cool feature i love ...	personal opinion	2017-05-06

Figure 13

Acceptance Test

After done working on the web site and adding some real data, we made other people and friends visit our website to examine our work and let them test the sites features like searching for a movie and watching it. We did that to improve the customers experience and check for errors in order to fix them.

Also we asked them about the design while we were working on it, so that we can make it more user friendly

WebSite Demo

Home page (Interface) without login

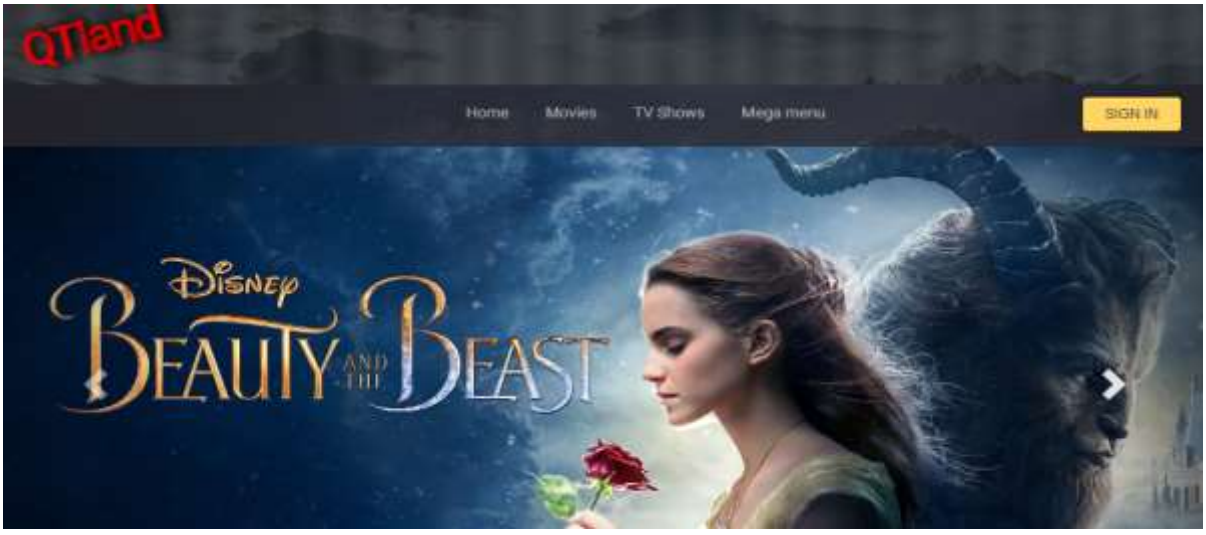

Figure 14

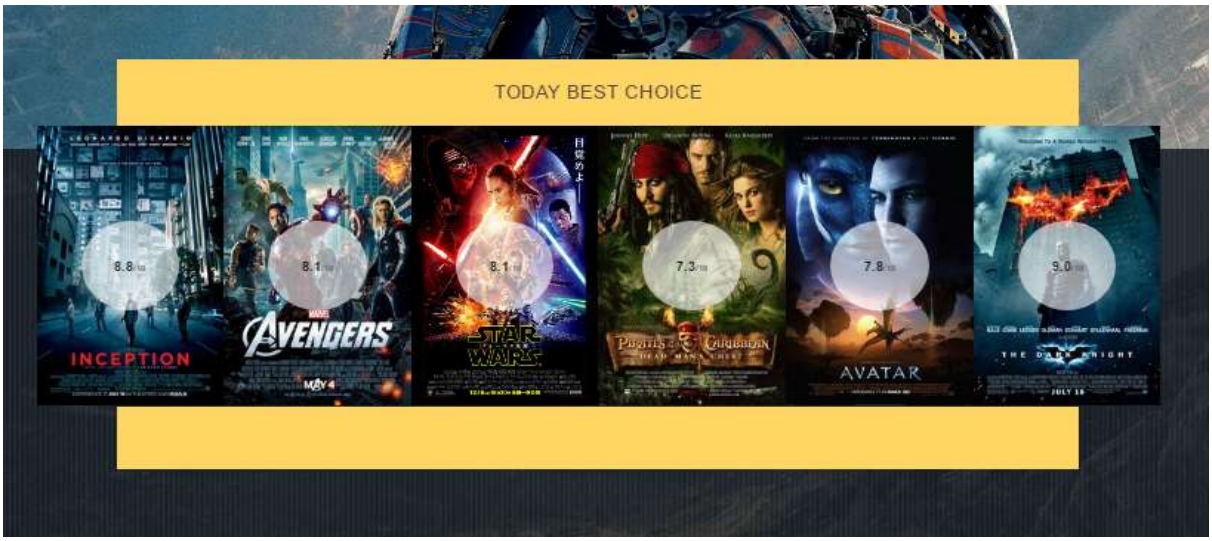

Figure 15

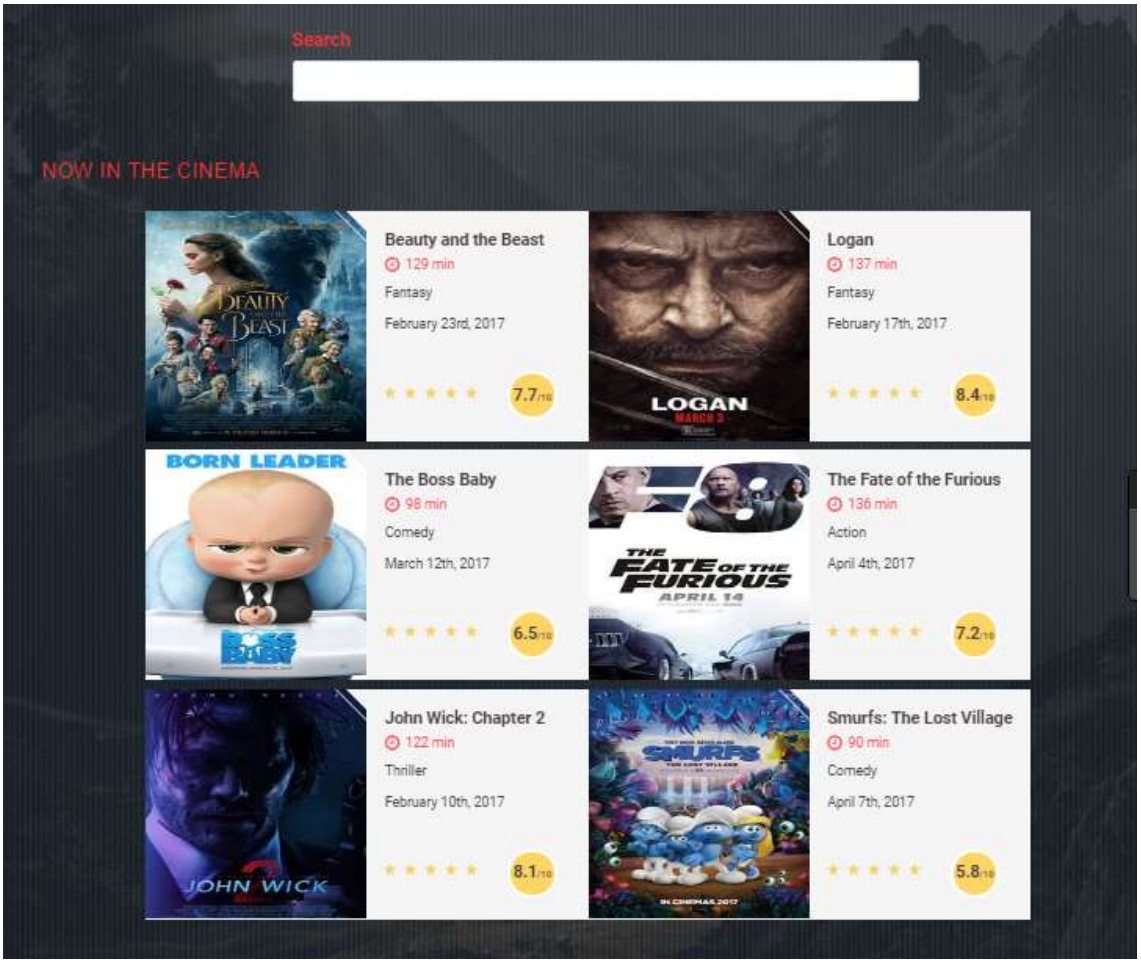

Figure 16

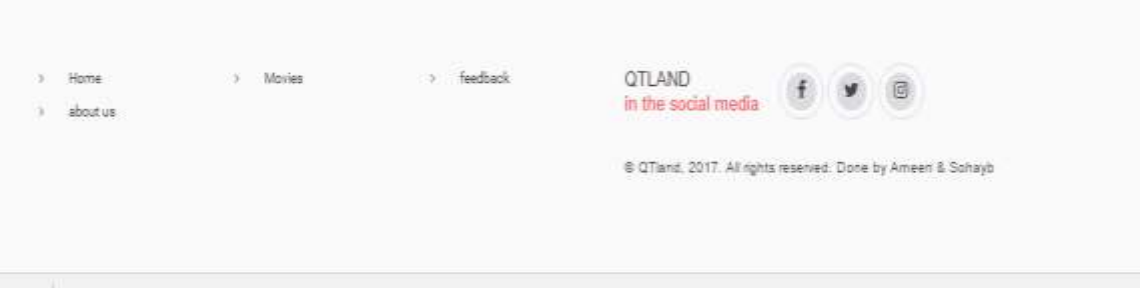

Figure 17

Movies page without login

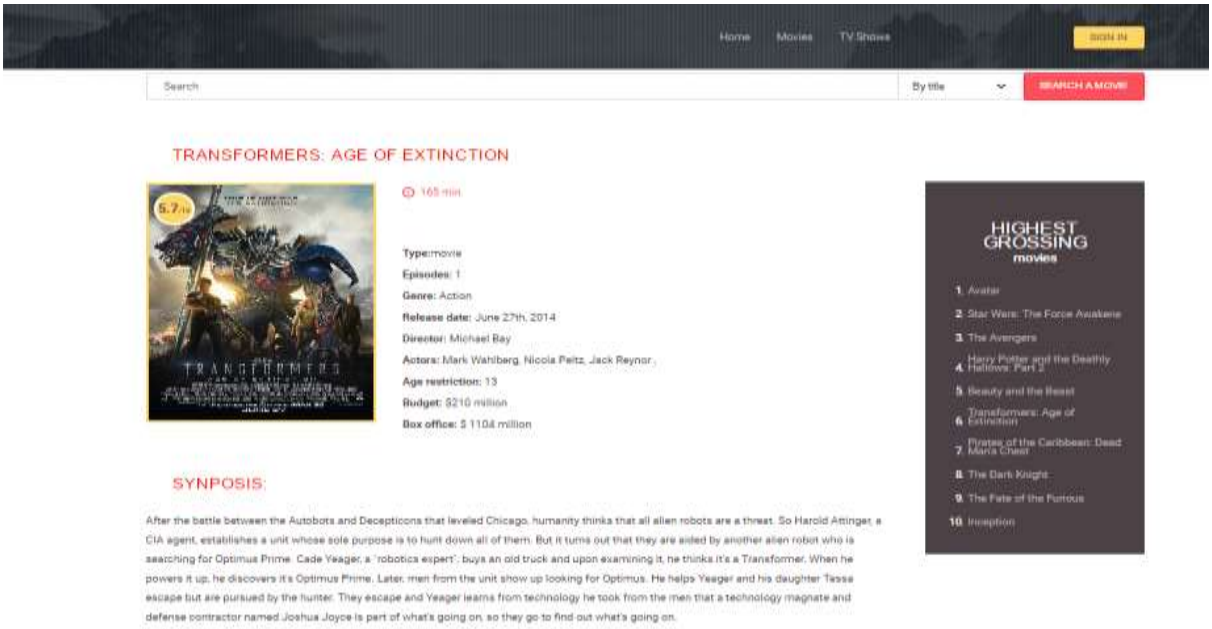

Figure 18

Figure 19

Home page & movie page while logged in

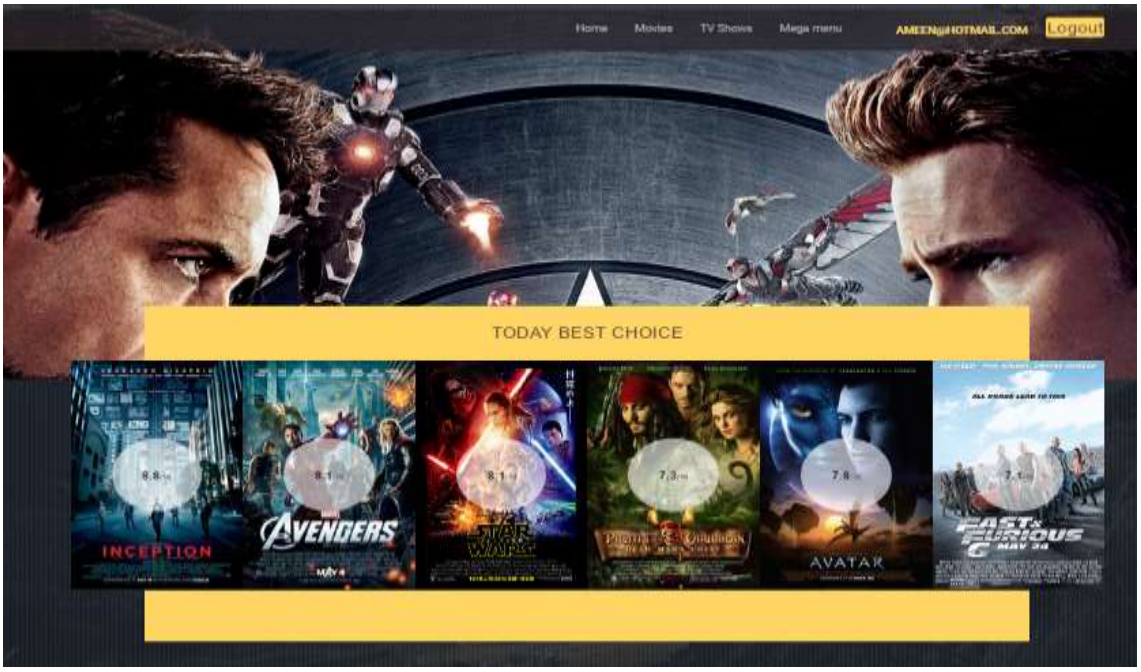

Figure 20

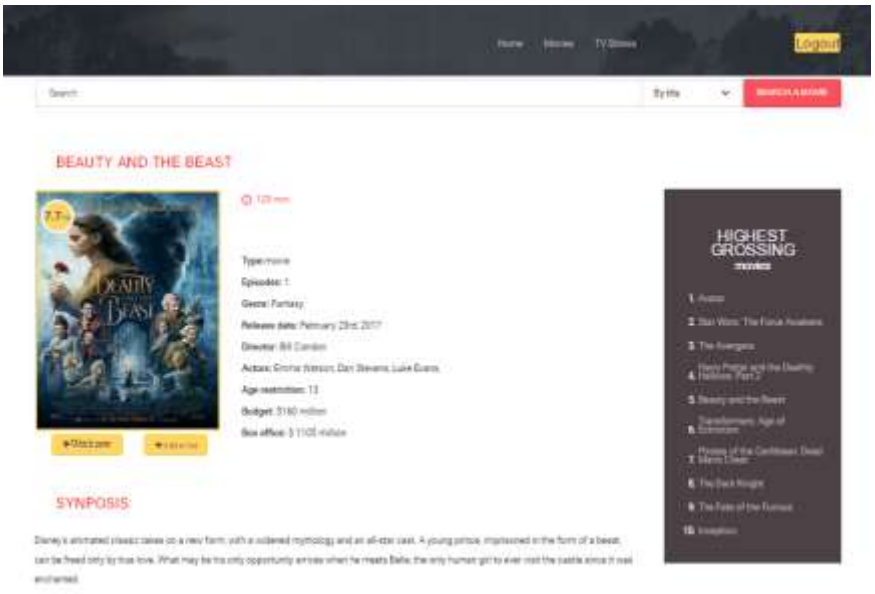

Figure 21

After adding movie to the favorite list

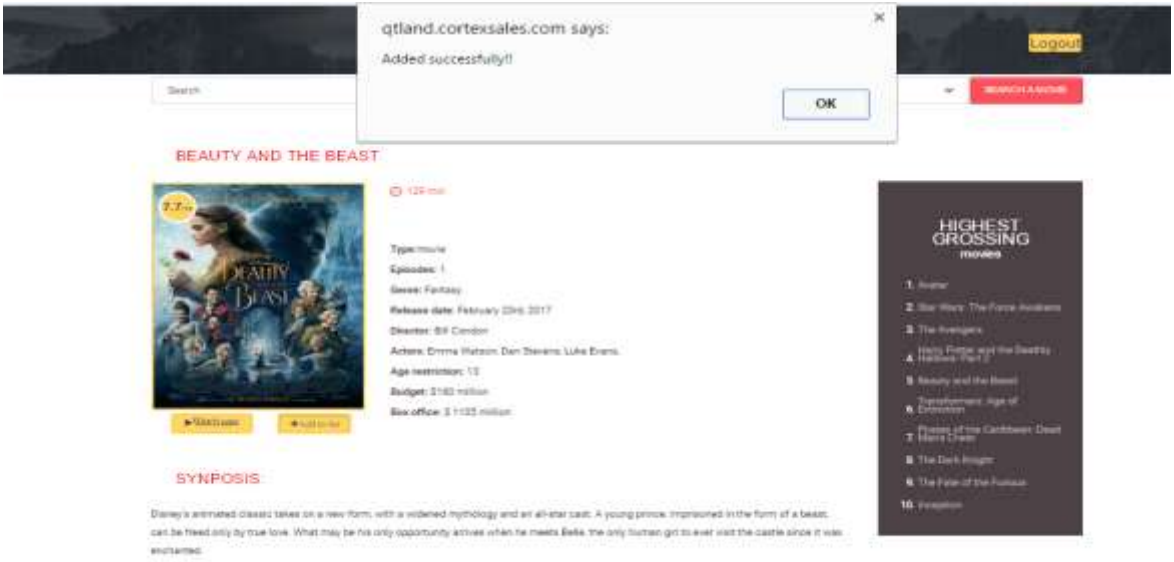

Figure 22

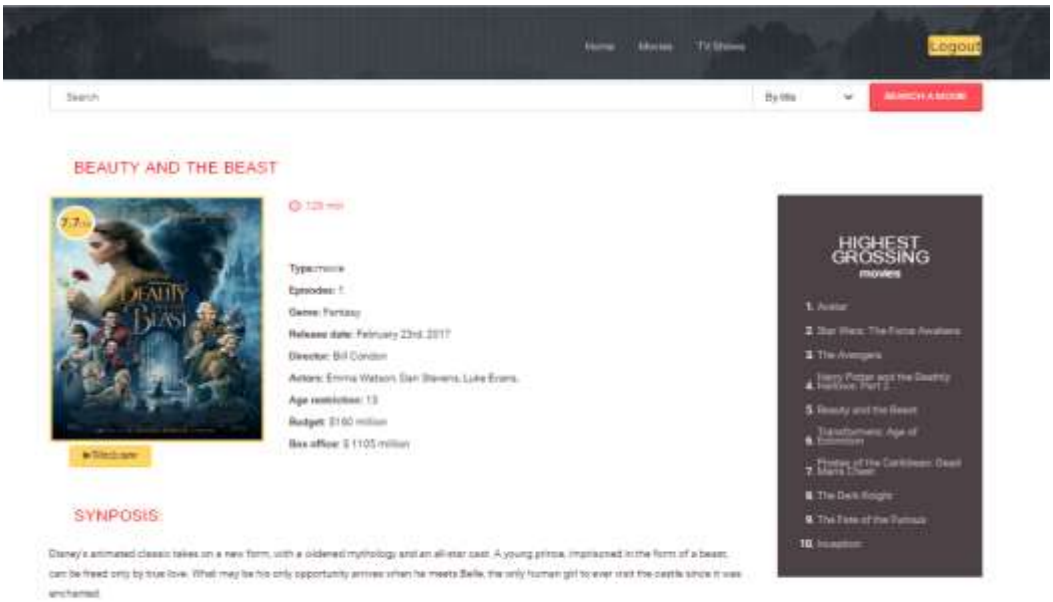

Figure 23

Sign in page & confirmation message

Figure 24

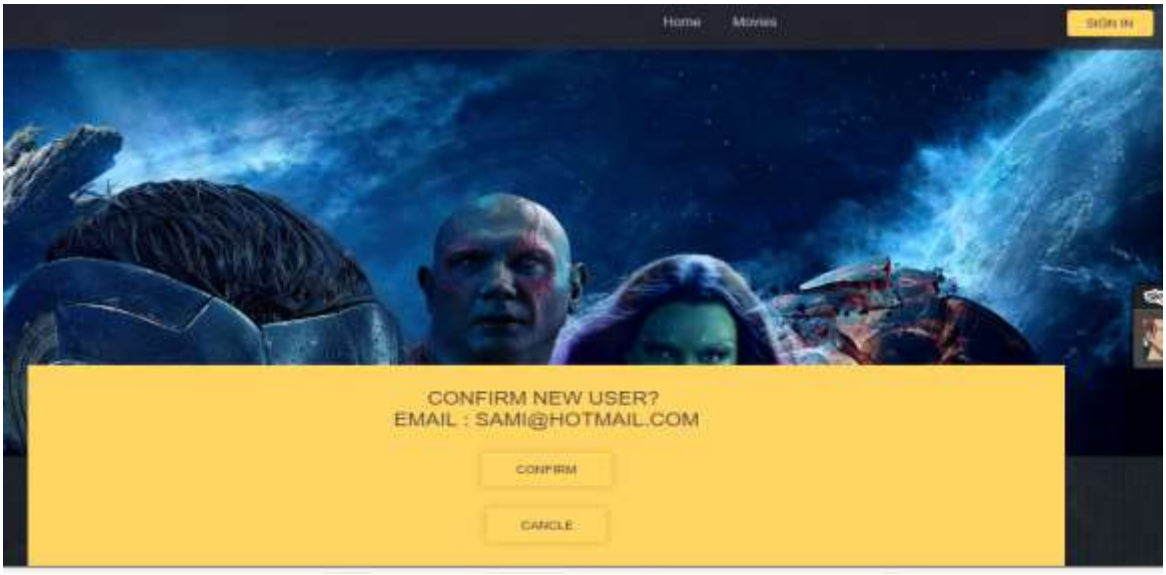

Figure 25

Feedback form

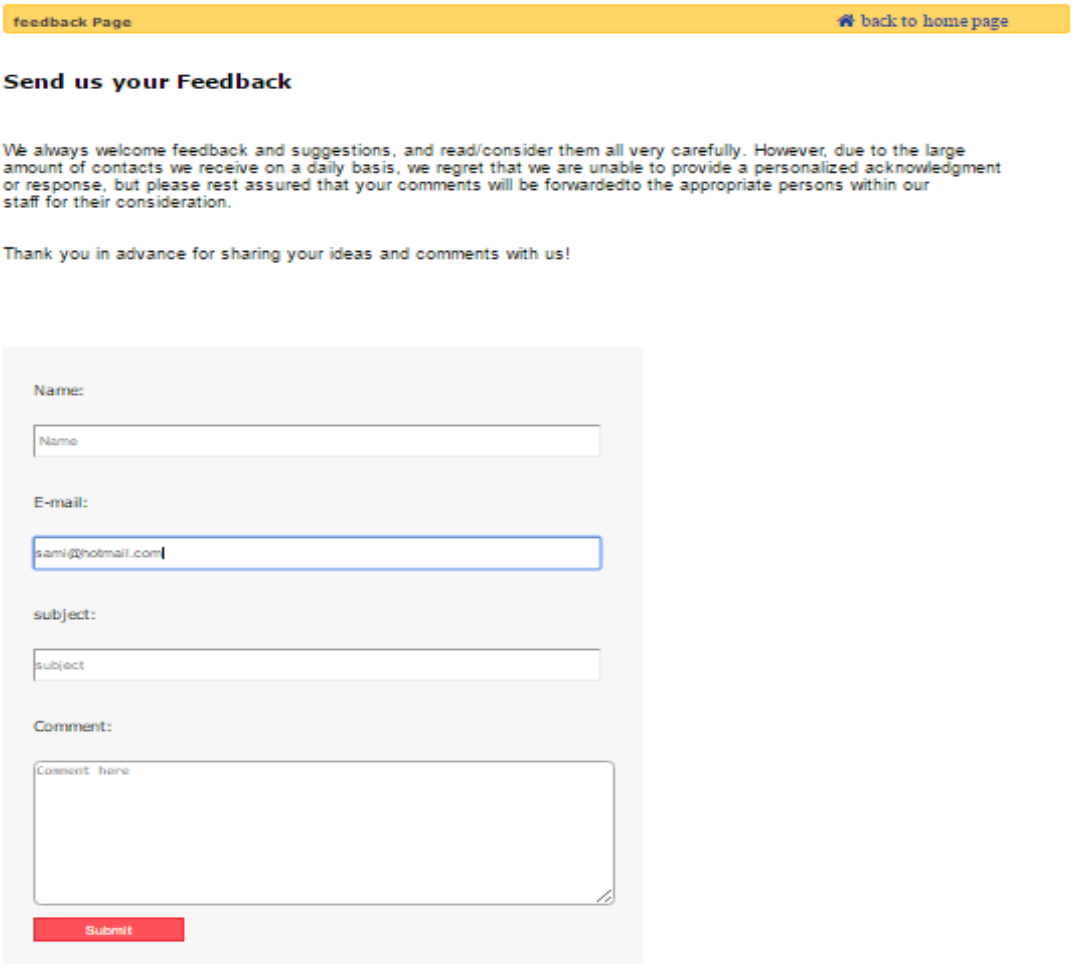

Figure 26

Admin page

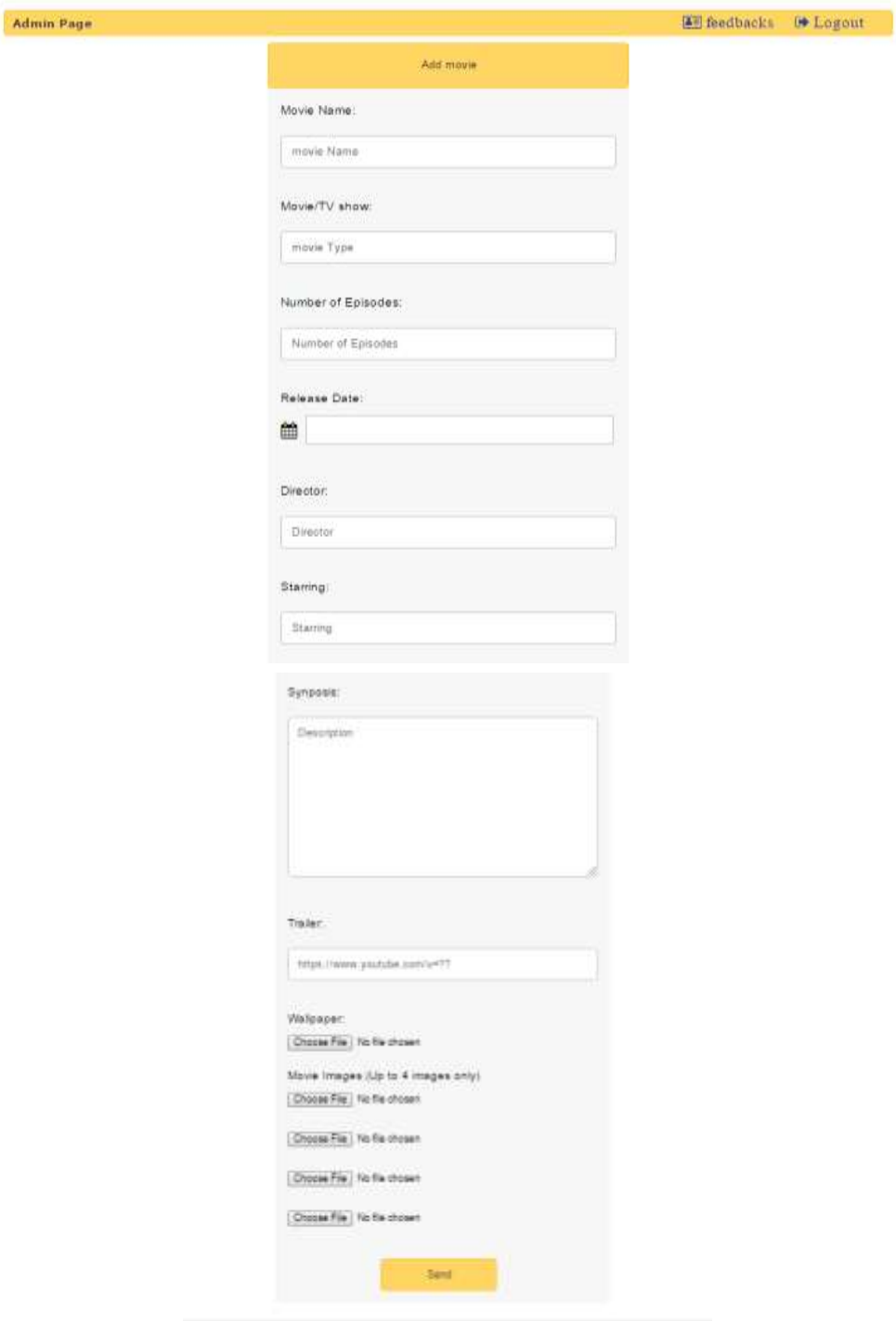

Figure 27

When viewing the feedbacks by the admin

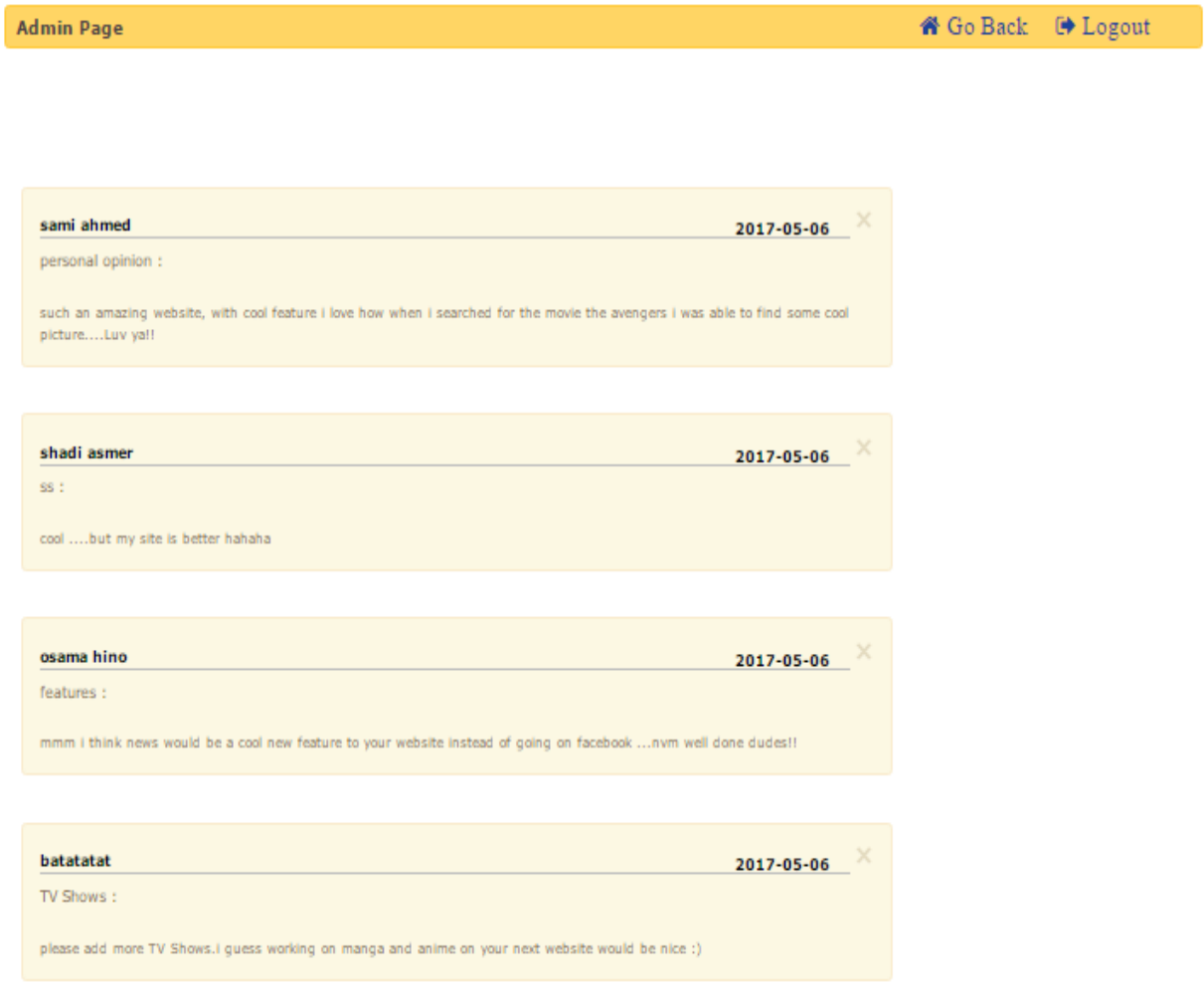

Figure 28

About our site & External sources

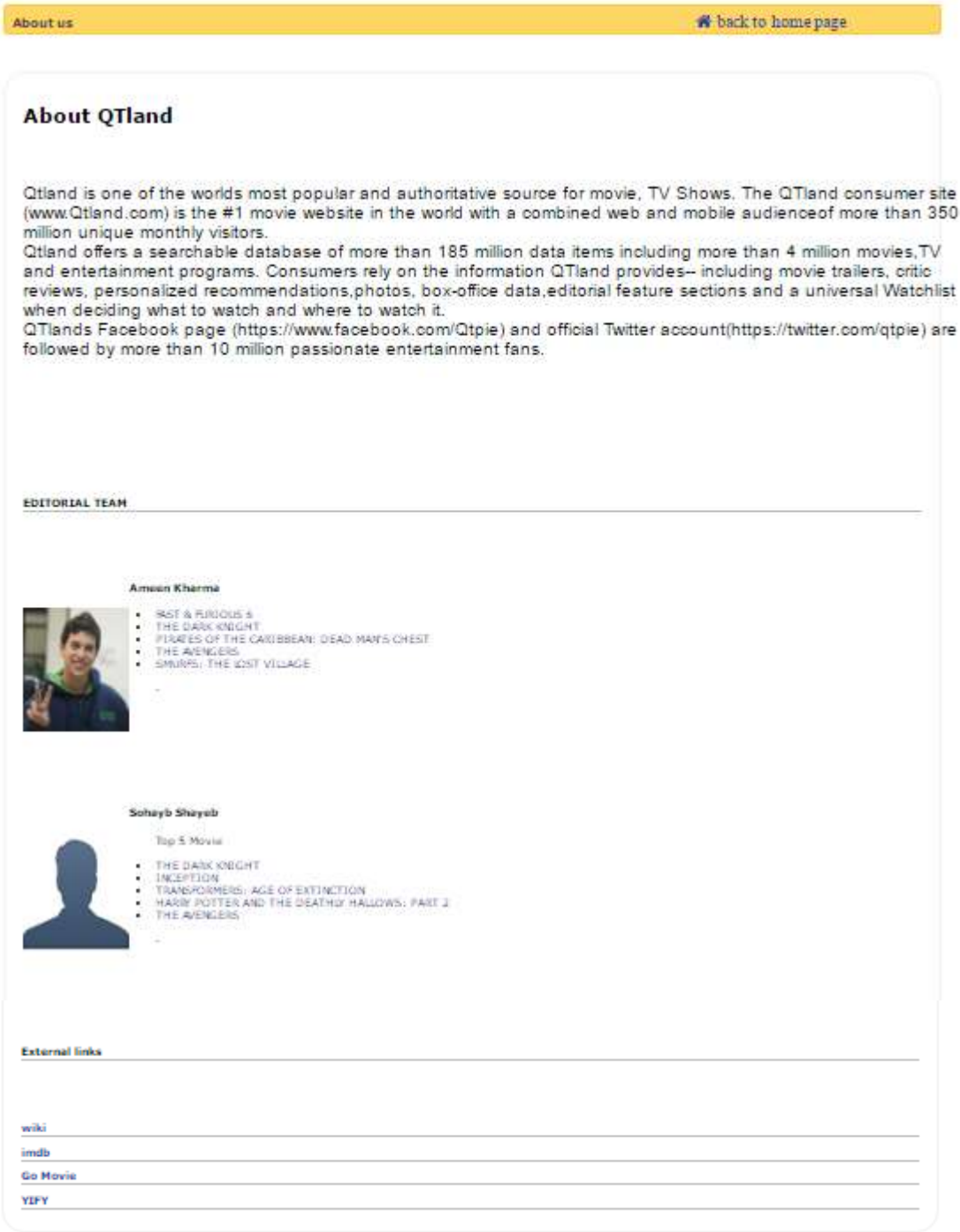

Figure 29

References:

https://www.wikipedia.org/

http://www.imdb.com/

http://www.boxofficemojo.com/

https://www.rottentomatoes.com/