



## Software Product Release

# Movieview

Movies Reviews Website

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## 1 Chapter 1: Introduction

Getting bored? Let's watch a movie! Nowadays, movies have become a part of our lives. Of course, it is one of the best sources of entertainment, especially for the young generation. Movies act as a savior for escaping us from our busy lives and stressful schedules. Most People face some difficulty spending a lot of time reading about different movies and searching where to watch it (movie theaters and streaming websites) and decide if a movie is worth watching or not, and so that they will waste a lot of time and money. Therefore, we're interested in creating a website that can help people to find reviews for movies and where to watch them. It would save their time and money in two aspects. This document contains the necessary information gathered to build and explain MOVIEW such as the problem which MOVIEW attends to solve, the solution that MOVIEW attempts to provide, the product vision MOVIEW will follow, the product roadmap that describes the timeline of MOVIEW, the objectives in three levels that MOVIEW will satisfy, the scope of functions that MOVIEW will and will not provide and finally the scrum team of MOVIEW.

### 1.1 The Problem

These days people have become busier than before, So, when they have free time, they want to enjoy it and not waste it. Most People face some difficulty spending a lot of time reading about different movies and searching where to watch it (movie theaters and streaming websites) and decide if a movie is worth watching or not, so they don't waste a lot of time and money. like a university student may become busy because of a lot of assignments and exams, so in their free time they need to enjoy watching a good movie without wasting their time to find a good movie as there are a lot of movies, and people don't want to watch any movie wasting their time. Also, they don't want to waste money by buying a ticket for a movie that they are not sure whether it suits them or not. In conclusion, our problem in general is people may waste their time and money in a movie not worth watching.

### 1.2 The Solution

The solution involves developing a movie review website in which people can know where to watch the movies and also they can view reviews about each movie . This website will help people make an informed decision in whether to watch the movie or not by give them the information from the movie description or from the reviews. It will help them avoid wasting time and money on bad movies.

### 1.3 The Product

#### 1.3.1 Product Vision

Product Vision:

For **busy people**

Who **need to decide what movie to watch**

The **Movie** is a **website**

That **offers a way to search for a movie and view reviews about it**

Unlike **other movies review websites**

Our product **enables users to know in which streaming websites the movie is available**

### 1.3.2 Product Roadmap

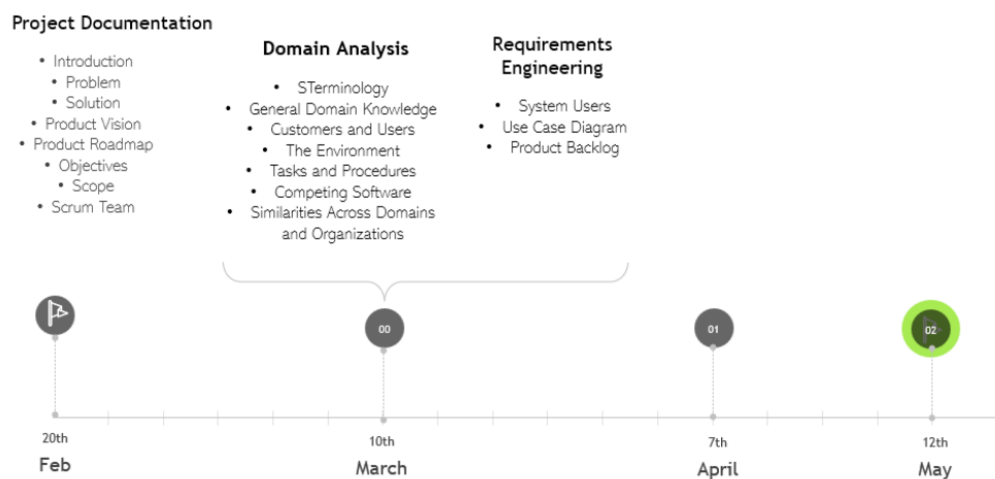


Figure 1: Roadmap

| Working Increment                 | Delivered              |
|-----------------------------------|------------------------|
| <b>Sprint-0</b>                   | 10 <sup>th</sup> March |
| <b>Sprint-1</b>                   | 7 <sup>th</sup> April  |
| <b>Sprint-2 (Product Release)</b> | 12 <sup>th</sup> May   |

### 1.3.3 Objectives

- **Product (customer focus-value):**
- Users can search on a specific movie.
- Users can view other users' reviews.
- Users can post reviews on movies.
- Users can find where to watch a movie (movie theaters or streaming websites).
- Admin can sign up.
- Admin can log in and log out.
- Admin can add movies, update and delete them.
- Admin can view movies and users' reviews.

- **Project (solution focus-plan):**
- Domain analysis.
- Requirement engineering.
- Product backlog.
- Architectural design: interface design and database design.
- Develop and implement the software.
- Test the software.



- **Learning (student focus):**
- Using Git and GitHub..
- Implement SCRUM.
- New domain.
- Using Jira.

#### 1.3.4 Scope

Movieview is a review website for movies that enables the admins to view movies and reviews, they can add, update and delete a movie. Also, they can show the status for each movie (available, coming soon) and suggestions for where people can watch this movie (cinema, Netflix, ..etc). On the other hand, The users can search about specific movies, view reviews for each movie that has been added by the admins, as well as they can post reviews. However, this website is practically useless without the internet and it only supports the English language.

#### 1.4 The Scrum Team

| Scrum Team          |  |
|---------------------|--|
| Product Owner (PO): | Najd alnasrallah   |
| Developers:         | Rahaf almoqbel<br>Khloud aldughaim<br>Reema alsaif<br>Najd alnasrallah |
| Scrum Master (SM):  | I. Nada Alhaarbi   |
| Stakeholders:       | I. Nada Alhaarbi   |

Table 1: Scrum Team

## 2 Chapter 2: Domain Analysis

### 2.1 Terminology

- **Movie** : Recording of moving images that tells a story simulates experiences and feelings accompanied by sound and can be watched in cinema or television.
- **Movie review** : Is a popular way for critics to assess a movie's overall quality and determine whether or not they think the movie is worth recommending. Movie reviews tend to be short, approximately 600 to 1200 words.
- **Trailer** : Also known as a preview or coming attraction video, is a commercial advertisement, consisting of a series of selected shots from the movie being advertised to attract an audience to the movie, in a duration that does not exceed 2 minutes and 30 seconds.
- **Rating** : Is a score or measurement of how good or popular the movie is, it can be represented in percentage by different shapes such as stars.
- **Genre** : A distinctive type or category of movies sharing with each other number of similarities and subject narrative and style. Several categories of movies are action, drama, kids, comedy, horror.
- **Theaters** : A building or part of a building having seating for an audience and a large screen for showing movies.
- **Streaming websites** : Is a service that allows you to play movies on your TV, phone, or computer directly from the internet, without needing to download them such as Netflix, Hulu, YouTube, etc.
- **Cast** : Is the group of actors who make up a movie or stage play.

### 2.2 General Domain Knowledge

- Movies are generally categorized based on genre, whether it is one genre or a combination of them.
- Most movies are watched in theaters or at home using streaming websites.
- Each movie has a title, release date, genre, movie rating, language, description, cast, parents guide, users review, and where to watch section.
- Each review has a title, description and users rating.
- Reviews are posted by users on the website, but it can be seen by anyone visiting the website.
- there are some controls over adding movies and its detailed information to reduce the risk of mistakes, duplicate and other clutter.

### 2.3 Customers and Users

Potential clients are movie theaters companies that provide many kinds of movies. Others impacted by the system will include:

- A system administrator who manages all aspects of the website.
- A user who needs to have enough details about the movies so that he can make an informed decision whether the movie he is about to watch will be worth his time and money or not.
- The website can also be used by anyone who likes to have some idea of what a movie is going to be before seeing it, or engage in discussions after seeing it, with other people's opinions, experiences, and reviews on the website.

## 2.4 The Environment

The project will focus on developing a web-based system that works in a browser to allow people to find/post reviews for movies.

## 2.5 Tasks and Procedures

These days if someone wants to find a good movie they can ask a friend or visit different reviews websites or social media. This process takes a long time especially if the user read the reviews for a specific movie and liked it, because these websites are not providing the user where to watch it. which leaves them to go to every movie theater/streaming website and search the movie whether it's available or not.

## 2.6 Competing Software

Before building Moview, we have researched the market to learn about the strengths and weaknesses of existing similar products.

| <i><b>Feature</b></i>                              | <b>Rotten Tomatoes</b> | <b>Metacritic</b> | <b>Film Companion</b> | <b>Moview (Our system)</b> |
|--|------------------------|-------------------|-----------------------|----------------------------|
| <i>Post a review</i>                               | ✓                      | ✓                 | ✓                     | ✓                          |
| <i>Search different movies</i>                     | ✓                      | ✓                 | ✓                     | ✓                          |
| <i>Ability to read different reviews</i>           | ✓                      | ✓                 | ✓                     | ✓                          |
| <i>Provide where to watch (streaming websites)</i> | ✓                      |                   |                       | ✓                          |
| <i>Provide where to watch (theaters)</i>           |                        |                   |                       | ✓                          |

Table 2:Competing software

## 2.7 Similarities Across Domains and Organizations

After comparing three systems to Moview as it shows in the previous table we found that our system combines all of the different features that they have, for example adding a review, searching different movies and reading different reviews. On top of that our system has some other features that other systems don't have which are: provide where to watch the movie in both streaming websites and theaters.

## 3 Chapter 3: Requirements Engineering

### 3.1 System Users

There are two types of users that interact with the Moview system: standard user and admin.

Moview targets users that are interested in movies but they're busy. users should be able to read and write in English regardless of their educational level. they should have any type of device that can open a website. Little technical experience is needed to operate the website.

Admin is a person who has knowledge about movies regardless of her/his educational level. she/he should be able to read and write in English. Admins should have any type of device that can open a website.

Some technical experience is needed to operate the website.

### 3.2 Use Case Diagram

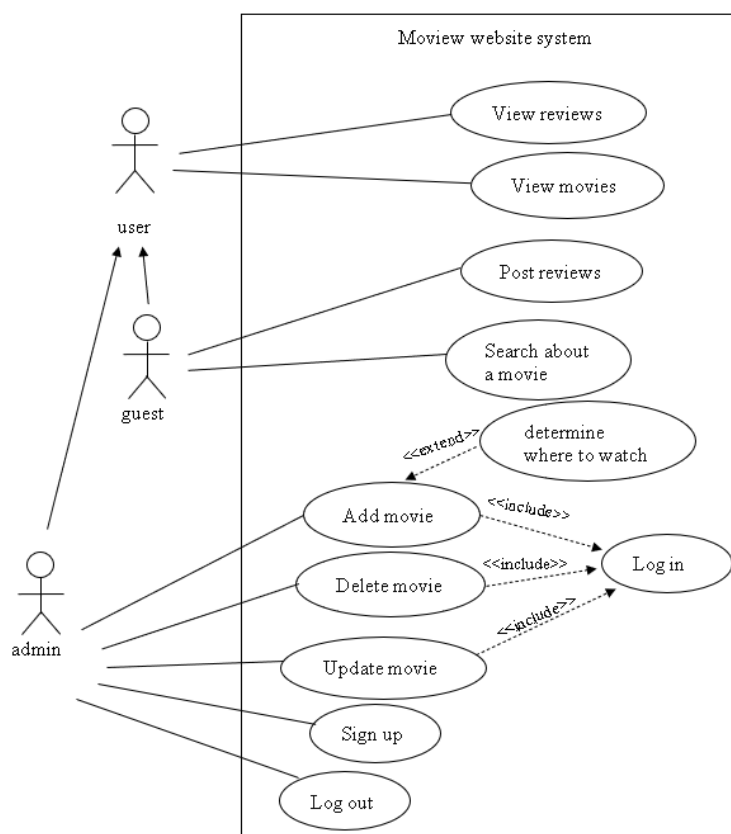


Figure 2:Use case diagram

### 3.3 Product Backlog

| Sprint Number | PBI  | Size | Type    | Status | Acceptance criteria  |
|---------------|--|------|---------|--------|--|
| sprint 1      | As a guest, I would like to be able to search for a specific movie, so that I can find it easily.                                  | 2    | feature | done   | As a guest, If I fill in the “Search” field with the name of an Not existing movie and I click the “search” button Then the system will not shows any movie.   |
|               |  |      |         |        | As a guest, If I fill in the “Search” field with the name of an existing movie and I click the “search” button Then the system shows movies matching the entered movie name.   |
| sprint 1      | As a guest, I would like to be able to find where to watch a movie, so that it saves my time.                                      | 5    | feature | done   | As a guest, If I open movies page then I can see list of places in “where to watch “ in each movie .   |
| sprint 2      | As a guest, I would like to be able to post a review of a movie, so that I can share my opinion and benefit from other's opinions. | 5    | feature | done   | As a guest, If I choose a certain movie and click view Reviews then its page opens and click on post a review, and write a review in the text area and press Post button, then a pop up message will appears that the review posted successfully . |
|               |  |      |         |        | As a guest, If I choose a certain movie and click view Reviews then its page opens and click on post a review, and press Post button without writing in the text area, then a pop up error message will appears.                                   |
| sprint 1      | As a guest, I would like to be able to view reviews on a movie, so that I can decide whether to watch it or not.                   | 2    | feature | done   | As a guest, If I choose a certain movie and click view reviews and its page opens then all reviews the have been posted before on this movie will appears.   |
|               |  |      |         |        | As an Admin, If I go to the sign up page and enter username and password and the   |

|          |  |   |         |      |   |
|----------|--|---|---------|------|---|
| sprint 2 | As an admin, I would like to be able to sign up ,so that I can add movies and manage them. | 3 | feature | done | <p>other information correctly, then the admin has been sign up successfully .</p> <p>As an Admin, If I go to the sign up page and enter username and password and the other information incorrectly, then sign up fails with an error message specifying the wrong.</p> <p>As an Admin, If I go to the sign up page and click on sign up without writing anything in the fields , then sign up fails with an error message that the fields are empty.</p>  |
| sprint 2 | As an admin, I would like to be able to log in , so that I can manage my movies.           | 3 | feature | done | <p>As an Admin, If I go to the login page and enter my username and password and click login , then the data associated with my user should be accessible.</p> <p>As an Admin, If I go to the login page and enter an incorrect username and password and click login , then login fails with an error message specifying that the username or password was wrong.</p> <p>As an Admin, If I go to the login page and click on Login without writing anything in the username and password , then login fails with an error message that the fields are empty.</p> |
| sprint 1 | As an admin, I would like to be able to log out , so that I can protect my data .          | 3 | feature | done | As an Admin, If I click on logout , then the session will end .   |
| sprint 1 | As an admin, I would like to be able to view movies, so that I can manage them.            | 2 | feature | done | As an admin, if i click on mymovies, then i can see all my movies listed and i can manage them.   |
|          |  | 2 | feature | done | As an admin, if i click on add a movie and then fill all information correctly about the movie and click on add, then a message appears that the movie added successfully.  |

|          |   |   |         |      |  |
|----------|---|---|---------|------|--|
| sprint 2 | As an admin, I would like to be able to add movies, so that I can make it available to users. |   |         |      | <p>As an admin, if i click on add a movie and then fill the information incorrectly about the movie and click on add, then an error message appears specifying the wrong.</p> <p>As an admin, if i click on add a movie and click on add button without writing any thing in the fields , then an error message appears that the fields are empty .</p>  |
| sprint 2 | As an admin, I would like to delete movies, so that I can make it unavailable to users.       | 2 | feature | done | As an admin , if i click on the delete button for the movie that i want to delete it , then the movie will be unavailable to the users.  |
| sprint 2 | As an admin, I would like to update movies, so that I can have updated information.           | 2 | feature | done | <p>As an admin , if i click on the edit button for the movie that i want to update it ,and update movie's information correctly and click on update, then a message appears that the movie updated successfully.</p> <p>As an admin , if i click on the edit button for the movie that i want to update it ,and update movie's information incorrectly and click on update, then an error message appears specifying the wrong.</p> <p>As an admin , if i click on the edit button for the movie that i want to update it ,and update movie's information with empty fields and click on update, then an error message appears that the fields are empty.</p> <p>As an admin , if i click on the edit button for the movie that i want to update it ,and click on update without change any thing , then a message appears that there is no changes.</p> |
|          |   |   | feature | done | As an Admin, If I click on my profile and update my information correctly and click on update , then a message appears that the profile updated successfully   |

|          |  |   |         |      |  |
|----------|--|---|---------|------|--|
| sprint 2 | As an Admin, I would like to be able to edit my profile, so that I can have an updated profile which people can view.                    | 2 |         |      | As an Admin, If I click on my profile and update my information incorrectly and click on update , then an error message appears specifying the wrong.            |
|          |  |   |         |      | As an Admin, If I click on my profile and update my information with empty fields and click on update , then an error message appears that the fields are empty. |
|          |  |   |         |      | As an Admin, If I click on my profile and click on update without change any thing, then a message appears that there is no changes.                             |
| sprint 2 | As a guest, I would like to be able to interact with the system and learn how to use its main functionalities with less effort.          | 5 | feature | done | As a guest, if I spend an hour browsing the website and using some of its main functionality then the number of mistakes shouldn't exceed two.                   |
|          |  |   |         |      | As a user, if I perform a task then the time it takes should not exceed 2 minutes.   |
| sprint 2 | would like my account information to display within 5 seconds on my request so that I don't get frustrated and find another site to use. | 5 | feature | done | As an Admin, if I press on my account information the response time should be less than 8 seconds.   |

Table 3:Product backlog



### 3.4 Definition of Done

| Definition of Done |  |
|--------------------|--|
| ✓                  | Acceptance criteria must be understood by the team.          |
| ✓                  | Details are sufficiently understood.                         |
| ✓                  | Dependencies are identified; no blocking dependencies exist. |
| ✓                  | Prioritizing the backlog for the sprint.                     |
| ✓                  | Estimated and small enough to be completed during a sprint.  |
| ✓                  | Acceptance criteria are clear and testable.                  |
| ✓                  | Performance criteria, if any, are defined and testable.      |
| ✓                  | Team understands how to demo the completed PBI.              |

Table 4:Definition of Done

## 4 Chapter 4: System Design

### 4.1 System Architecture

Since we are developing a reviews website that requires high performance, we have chosen the client-server architecture. This architecture is good to use when we have different user devices using our website. Also, because of the range of locations that allow people to access the website from any place.

We didn't use MVC architecture pattern since there aren't multiple ways to view and interact with data. Also, we did not use repository architecture pattern since our website does not need a shared data center with any other system.

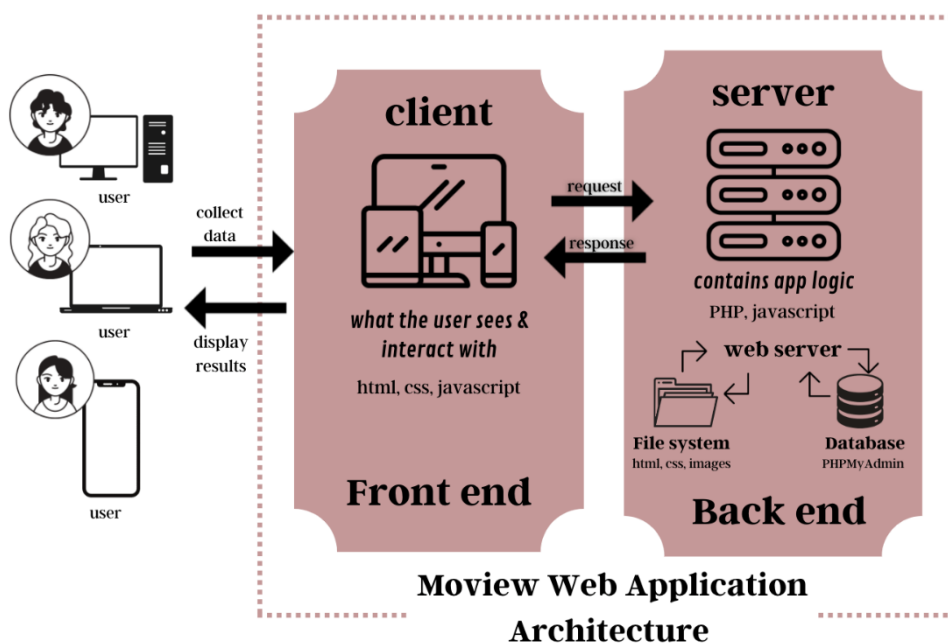


Figure 3: System architecture

## 4.2 Class Diagram

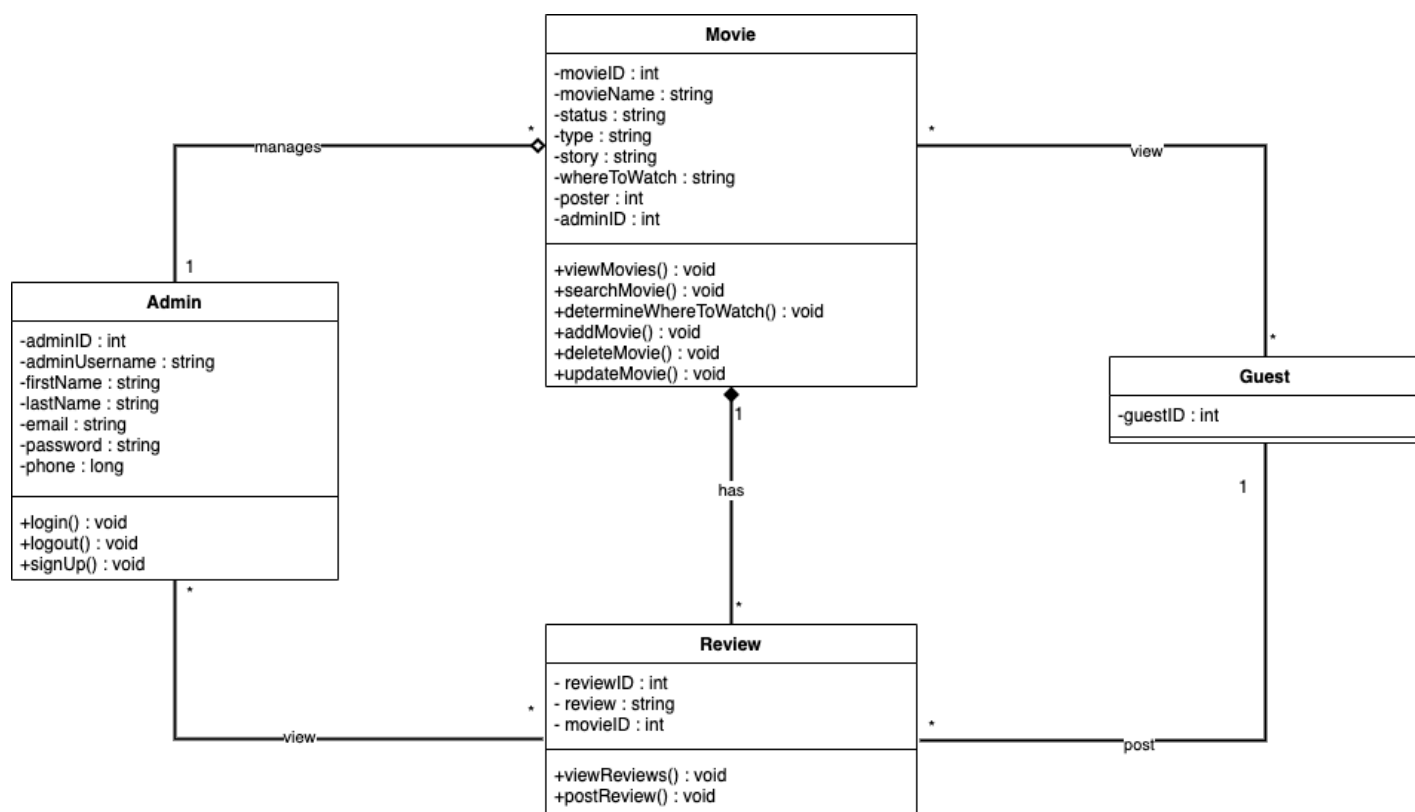


Figure 4:Class Diagram

## 4.3 Data Design

### • ER Diagram

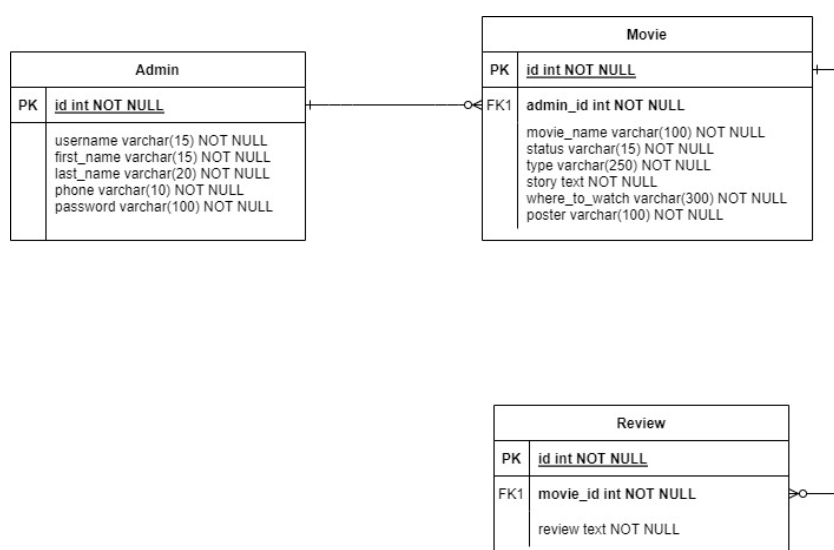


Figure 5:ER Diagram

- Schema

**Admin**(id, username, first\_name, last\_name, phone, password)

Primary key: id.

**Movie**(id, movie\_name, status, type, story, where\_to\_watch, poster, adminID)

Primary key: id.

Foreign key: adminID.

**Review**(id, review, movie\_id).

Primary key: id.

Foreign key: movie\_id.

- Data dictionary:

| Entity | Attribute  | Description                          | Data type | Length | Required | Multi-valued | Default value | PK  | FK |
|--------|------------|--------------------------------------|-----------|--------|----------|--------------|---------------|-----|----|
| Admin  | id         | Admin identifier                     | int       | 20     | Yes      | No           |               | yes |    |
|        | username   | Username for the admin to login with | varchar   | 15     | Yes      | No           |               |     |    |
|        | first_name | First name of the admin              | varchar   | 15     | Yes      | No           |               |     |    |
|        | last_name  | Last name of the admin               | varchar   | 20     | Yes      | No           |               |     |    |
|        | phone      | Phone number of the admin            | varchar   | 10     | Yes      | No           |               |     |    |
|        | password   | Password for the admin to login with | varchar   | 100    | Yes      | No           |               |     |    |

Table 5:Data Dictionary

| Entity | Attribute      | Description                           | Data_type | Length | Required | Multi-valued | Default value | PK  | FK  |
|--------|----------------|---------------------------------------|-----------|--------|----------|--------------|---------------|-----|-----|
| movie  | id             | movie identifier                      | integer   | 20     | yes      | No           |               | yes |     |
|        | movie_name     | the movie's name                      | varchar   | 100    | yes      | No           |               |     |     |
|        | status         | indicates what the movie status       | varchar   | 15     | yes      | No           |               |     |     |
|        | type           | the movie's type                      | varchar   | 250    | yes      | No           |               |     |     |
|        | story          | the story that describes the movie    | text      |        | yes      | No           |               |     |     |
|        | where_to_watch | indicates where to watch the movie in | varchar   | 300    | yes      | No           |               |     |     |
|        | poster         | the movie's poster                    | varchar   | 100    | yes      | No           |               |     |     |
|        | adminID        | admin identifier who posted the movie | varchar   | 20     | yes      | No           |               |     | yes |

Table 6: Data Dictionary

| Entity | Attribute | Description                                 | Data type | Length | Required | Multi-valued | Default value | PK  | FK  |
|--------|-----------|---|-----------|--------|----------|--------------|---------------|-----|-----|
| review | id        | review identifier                           | integer   | 20     | Yes      | No           |               | yes |     |
|        | review    | a review written from a guest for the movie | text      |        | Yes      | No           |               |     |     |
|        | movie_id  | movie identifier                            | integer   | 15     | Yes      | No           |               |     | yes |

Table 7: Data Dictionary

#### 4.4 Component Design

| Sprint number | PBI (user story)  | User story tasks with effort estimates in hours   |   |                            | Sum of effort |
|---------------|---|---|---|----------------------------|---------------|
| 1             | As a guest, I would like to be able to search for a specific movie, so that I can find it easily. | Create a user interface that contains a search field for searching a specific movie using html & css. | Develop filter functionality for the search bar using JavaScript. | Testing the functionality. | 3 hours       |
|               |   | 1.5 hours   | 1 hour  | 0.5 hours                  |               |

Table 8 : Component design of the search function.

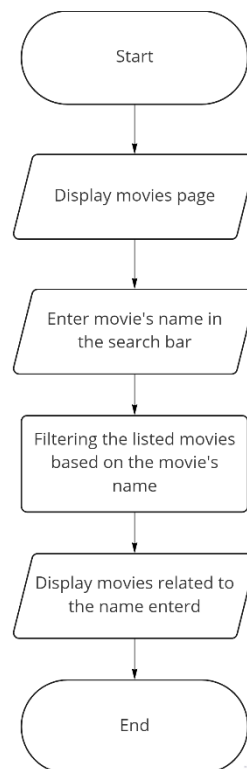


Figure 6: Flowchart of the search function.

| Sprint number | PBI (user story)   | User story tasks with effort estimates in hours  |   |  |                            | Sum of effort |
|---------------|--|--|---|--|----------------------------|---------------|
| 2             | As a guest, I would like to be able to post a review of a movie, so that I can share my opinion and benefit from other's opinions. | Create a user interface that contains a button for posting and viewing the reviews using html & css. | Create a reviews table in the database. | Develop posting functionality for the "Post" button using php. | Testing the functionality. | 5.5 hours     |
|               |  | 2 hours  | 0.5 hours                               | 2.5 hours  | 0.5 hours                  |               |

Table 9 : Component design of the post function.

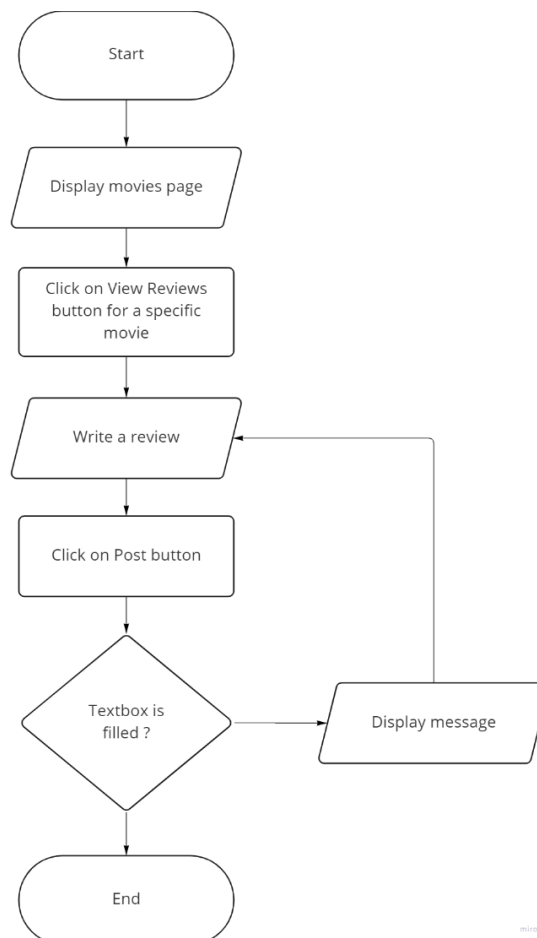


Figure 7 : Flowchart of the post function.

| Sprint number | PBI (user story)  | User story tasks with effort estimates in hours  |                                      |  |                            | Sum of effort |
|---------------|---|--|--------------------------------------|--|----------------------------|---------------|
| 2             | As an admin, I would like to be able to add movies, so that I can make it available to users. | Create a user interface that contains a button and a form for the movie's information that will be added using html & css. | Create movies table in the database. | Develop adding functionality for the "Add" button using php. | Testing the functionality. | 7 hours       |
|               |   | 2.5 hours  | 0.5 hours                            | 3.5 hours  | 0.5 hours                  |               |

Table 10 : Component design of the add function.

Pre-condition constraint : The user is logged in.

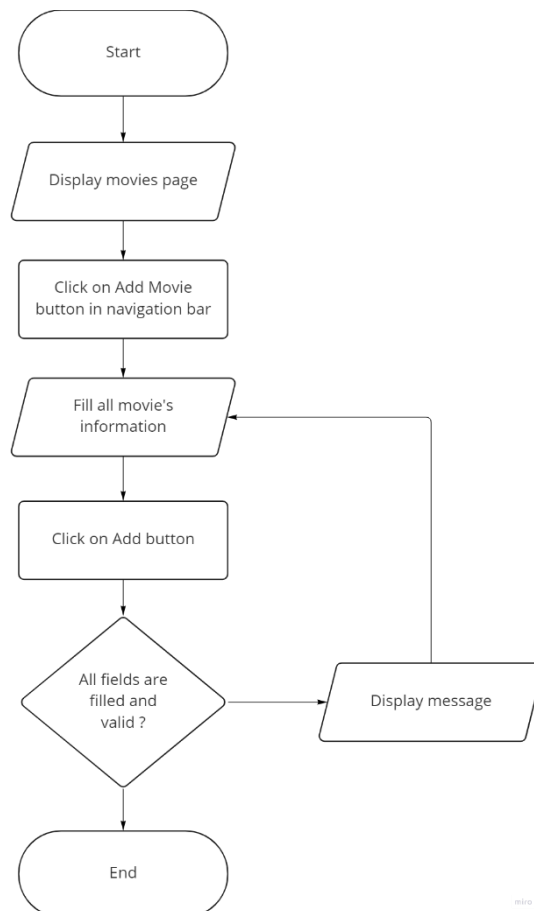


Figure 8 : Flowchart of the add function.



## 4.5 Interface Design

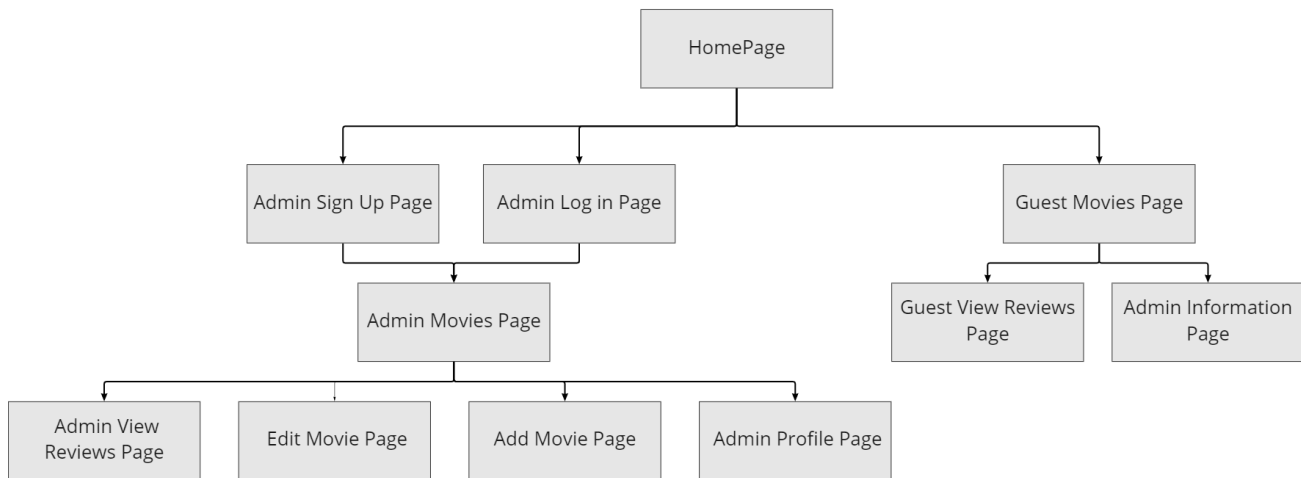


Figure 9 : Moview navigation hierarchy.

Moview incorporated some UX guidelines that falls into "Learnability" and "Robustness" principles as follows :

### [ Learnability ]

#### 1- Predictability :

- The user can predict that by pressing "View reviews" it will display all reviews about this movie.
- The admin can predict that by pressing "Delete" it means delete the movie.

#### 2- Familiarity :

- Moview uses metaphors such as the "Exit door" icon for log out.

#### 3- Consistency :

- Moview has consistency in command naming such as "Log in" and "Sign up".

### [ Robustness ]

#### 4- Reachability :

- User can navigate to different pages by the buttons in navigation bar.

#### 5- Recoverability :

- When signing up, the form sets mandatory option for the phone number. It doesn't allow the user to enter characters or any other symbols.

User interface :

1- HomePage :

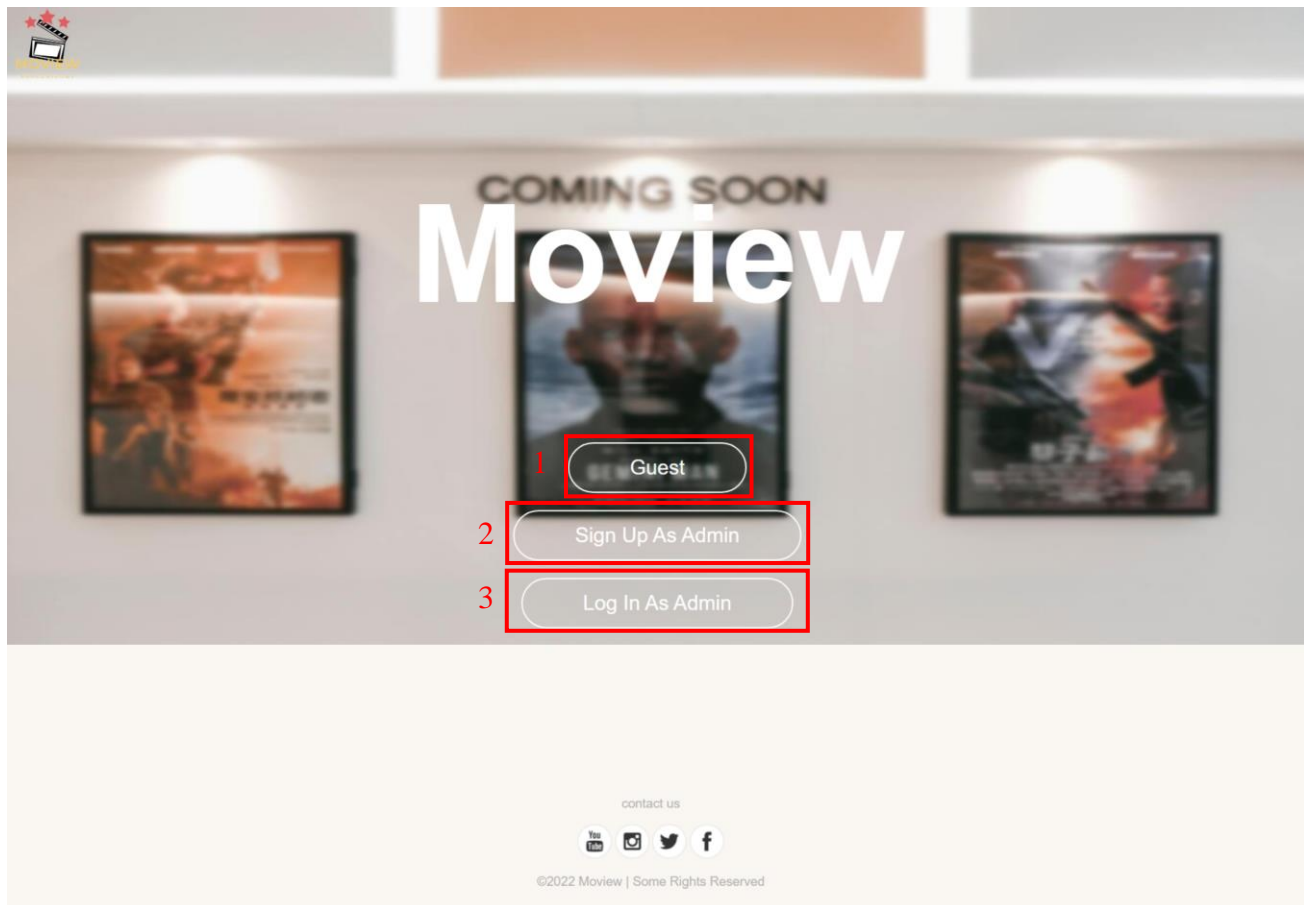


Figure 10 : Moview homepage.

| # | Description  |
|---|--|
| 1 | Button transfers the user to the guest movies page.  |
| 2 | Button transfers the user to the admin sign up page. |
| 3 | Button transfers the user to the admin log in page.  |

Table 11 : Moview homepage description.

## 2- Guest movies page:

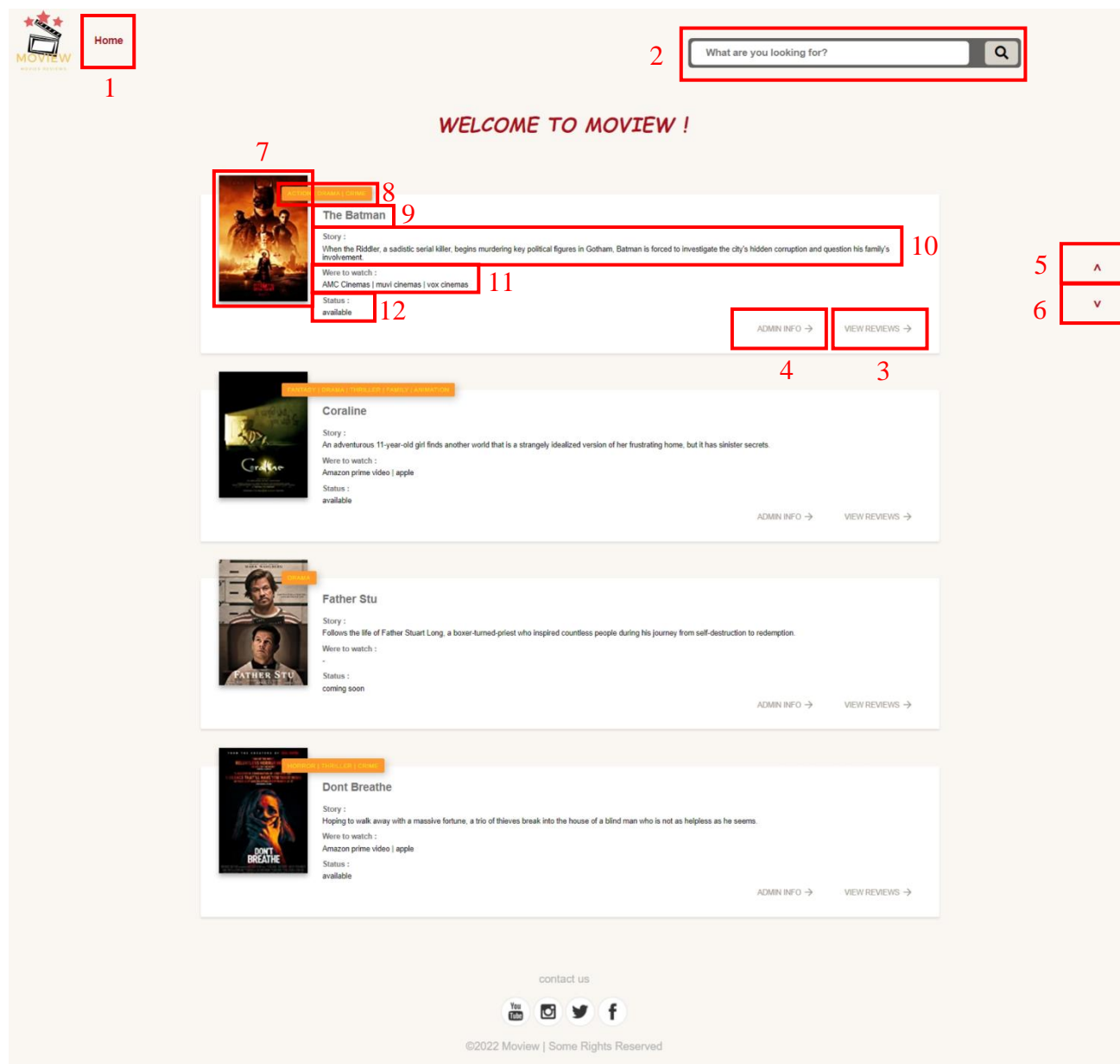


Figure 11 : Guest movies page.

| # | Description   |
|---|---|
| 1 | Button transfers the user to the Homepage.                |
| 2 | Input field to search for a movie by its name.            |
| 3 | Button transfers the user to the guest view reviews page. |
| 4 | Button transfers the user to the admin information page.  |

|    |   |
|----|---|
| 5  | Button transfers the user to the top of the guest movies page.    |
| 6  | Button transfers the user to the bottom of the guest movies page. |
| 7  | Image represents the poster of the movie.                         |
| 8  | Text field for the movie's genre.                                 |
| 9  | Text field for the movie's name.                                  |
| 10 | Text field for the movie's story.                                 |
| 11 | Text field for the streaming services that offers the movie.      |
| 12 | Text field for the status of the movie.                           |

Table 12 : Guest movies page description.

## 2.1 The result if the user searches for a movie that exists:

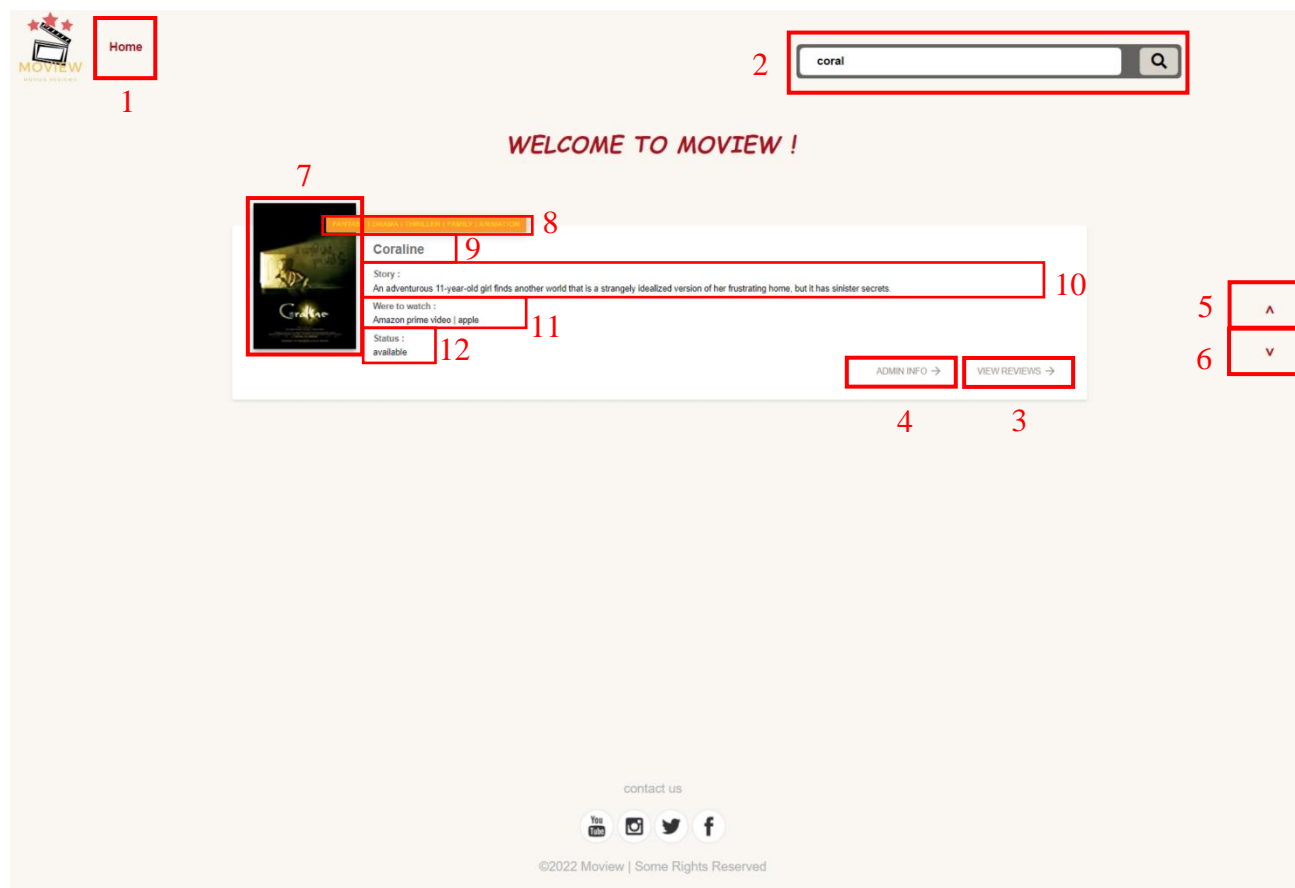


Figure 12 : Guest movies page – search for an existing movie.

| # | Description   |
|---|---|
| 1 | Button transfers the user to the Homepage.                        |
| 2 | Input field to search for a movie by its name.                    |
| 3 | Button transfers the user to the guest view reviews page.         |
| 4 | Button transfers the user to the admin information page.          |
| 5 | Button transfers the user to the top of the guest movies page.    |
| 6 | Button transfers the user to the bottom of the guest movies page. |
| 7 | Image represents the poster of the searched movie.                |
| 8 | Text field for the searched movie's genre.                        |
| 9 | Text field for the searched movie's name.                         |

|    |   |
|----|---|
| 10 | Text field for the searched movie's story.                            |
| 11 | Text field for the streaming services that offers the searched movie. |
| 12 | Text field for the status of the searched movie.                      |

Table 13 : Guest movies page – search for an existing movie description.

## 2.2 The result if the user searches for a movie that does not exist:

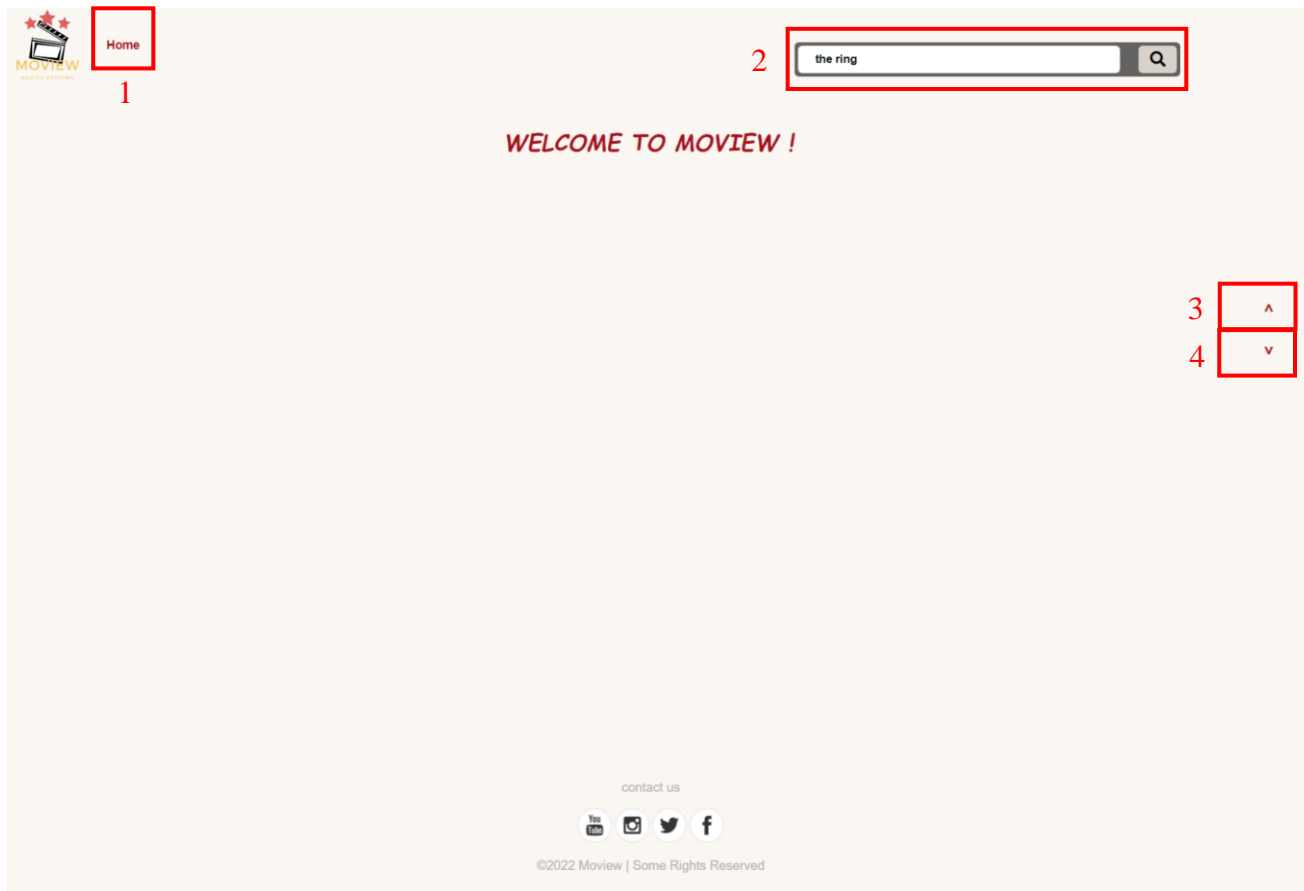


Figure 13 : Guest movies page – search for a non-existing movie.

| # | Description   |
|---|---|
| 1 | Button transfers the user to the Homepage.                        |
| 2 | Input field to search for a movie by its name.                    |
| 3 | Button transfers the user to the top of the guest movies page.    |
| 4 | Button transfers the user to the bottom of the guest movies page. |

Table 14 : Guest movies page – search for a non-existing movie description.

### 3- Guest view reviews page:



Figure 14 : Guest view reviews page.

| # | Description  |
|---|--|
| 1 | Button transfers the user to the Homepage.   |
| 2 | Button transfers the user to the guest movies page.                                      |
| 3 | Button transfers the user to the "Post A Review" section in the guest view reviews page. |
| 4 | Button transfers the user to the top of the guest view reviews page.                     |
| 5 | Button transfers the user to the bottom of the guest view reviews page.                  |
| 6 | Image represents the poster of the movie.  |



|    |   |
|----|---|
| 7  | Text field for the movie's genre.   |
| 8  | Text field for the movie's name.  |
| 9  | Text field for the movie's story.   |
| 10 | Text field for the streaming services that offers the movie.                  |
| 11 | Text field for the status of the movie.                                       |
| 12 | Reviews section that lists all the reviews posted by the users.               |
| 13 | Text field for the total number of reviews posted for the movie by the users. |
| 14 | A review posted by a user.  |
| 15 | "Post a review" section.  |
| 16 | Text area for the user's review.  |
| 17 | Button posts the review written by the user.                                  |

Table 15 : Guest view reviews page description.

### 3.1 The result if the user leaves the text area empty:

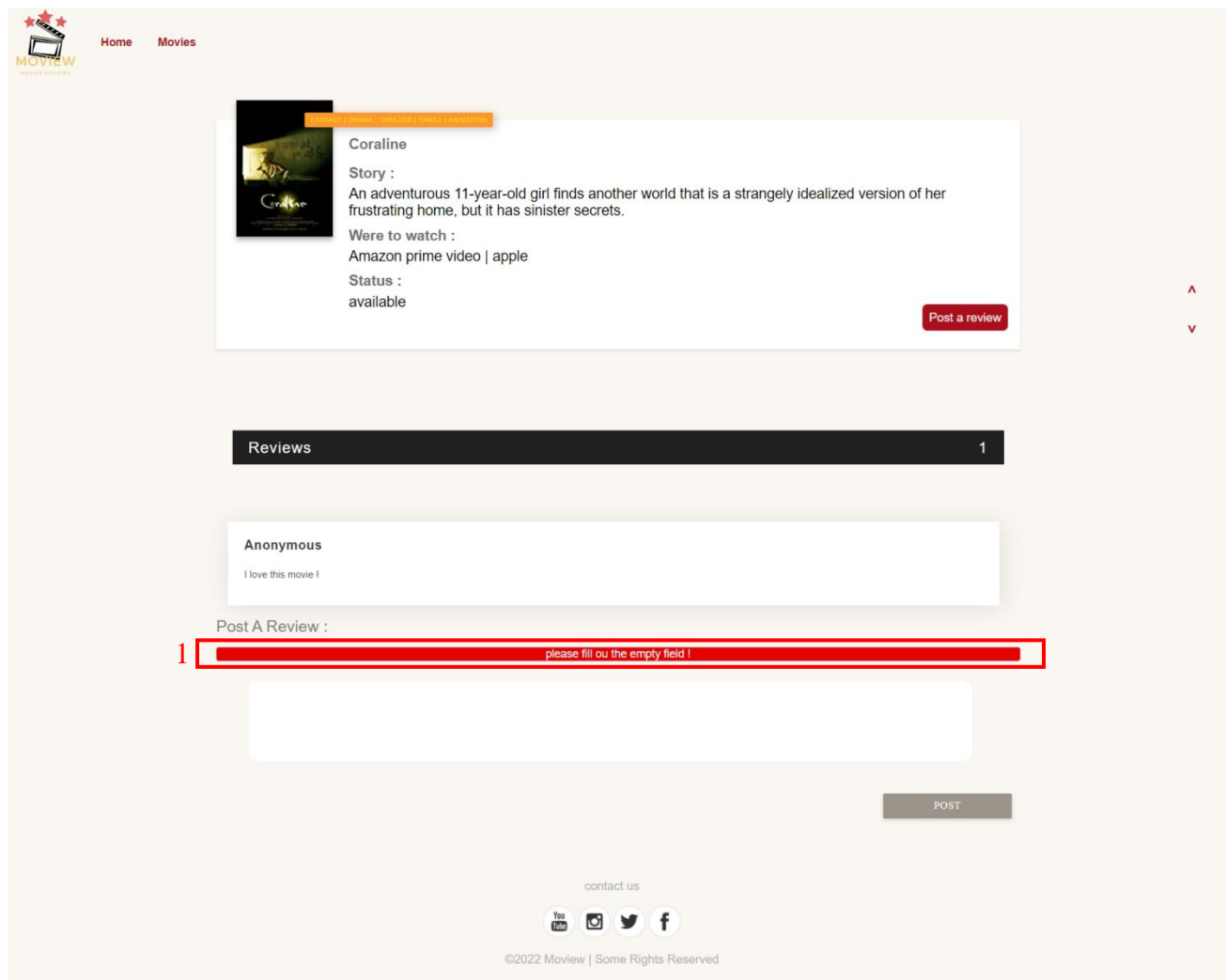


Figure 15 : Guest view reviews page – posting a review failed.

| # | Description   |
|---|---|
| 1 | Error message displayed when the user leaves the text area empty. |

Table 16 : Guest view reviews page – posting a review failed description.

### 3.2 The result if the user posts a review successfully:

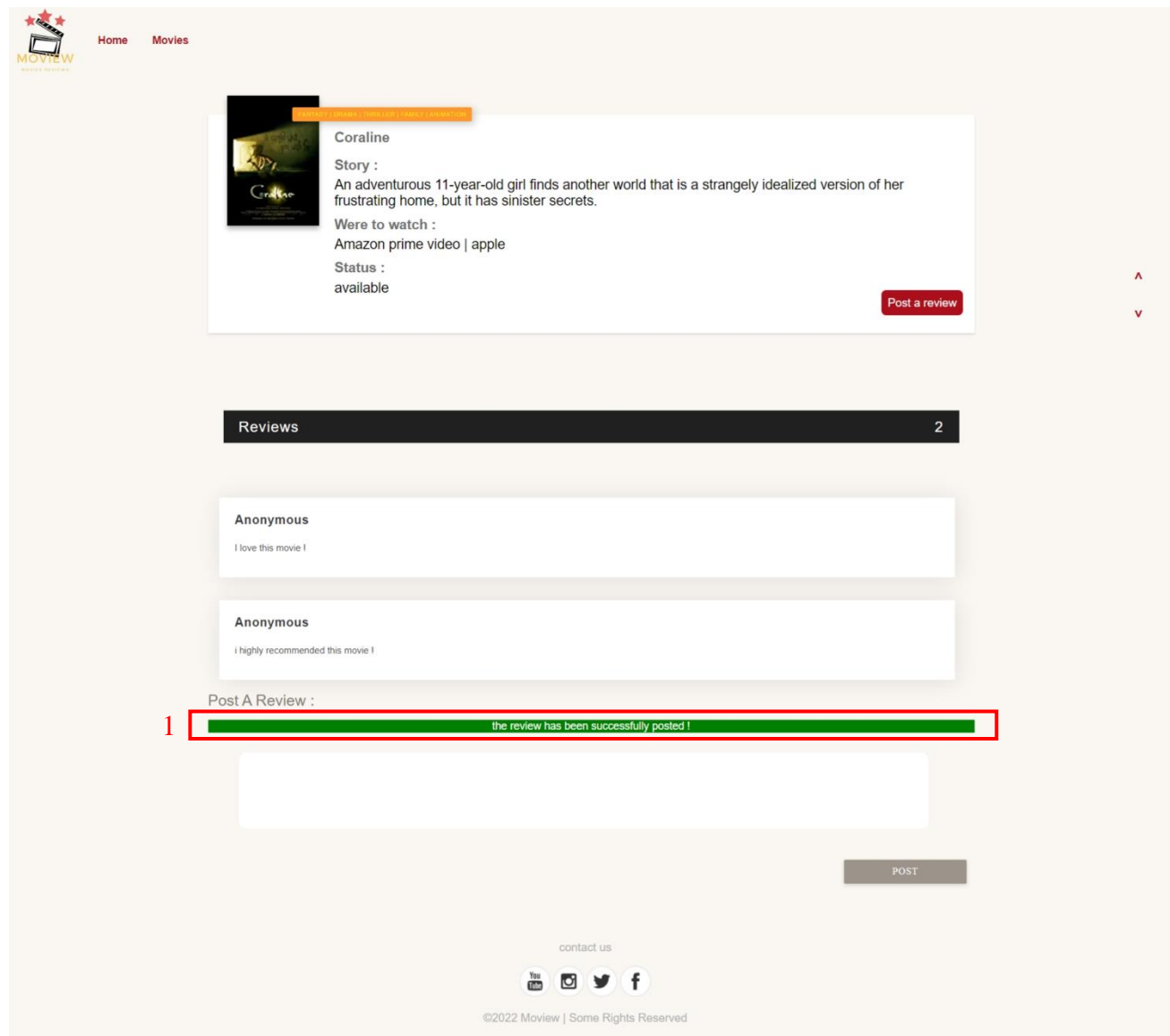


Figure 16 : Guest view reviews page – posting a review successfully.

| # | Description  |
|---|--|
| 1 | Message displayed when the review posted successfully. |

Table 17 : Guest view reviews page – posting a review successfully description .

#### 4- Admin sign up page:

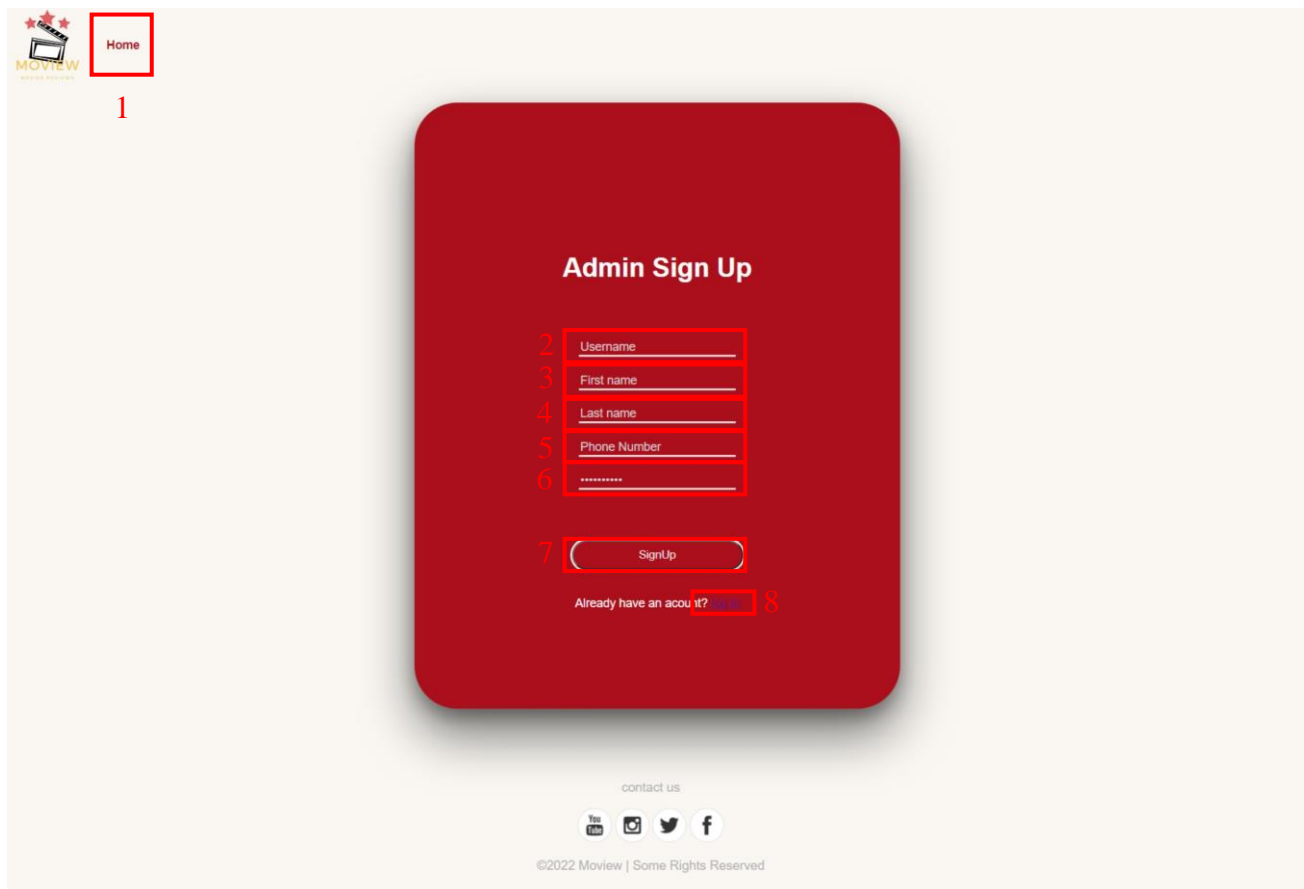


Figure 17 : Admin sign up page.

| # | Description   |
|---|---|
| 1 | Button transfers the user to the Homepage.          |
| 2 | Input field to for the username.                    |
| 3 | Input field to for the first name.                  |
| 4 | Input field to for the last name.                   |
| 5 | Input field to for the phone number.                |
| 6 | Input field to for the password.                    |
| 7 | Button transfers the user to the admin movies page. |
| 8 | Button transfers the user to the admin log in page. |

Table 18 : Admin sign up page description.

#### 4.1 The result if the user leaves a field empty:

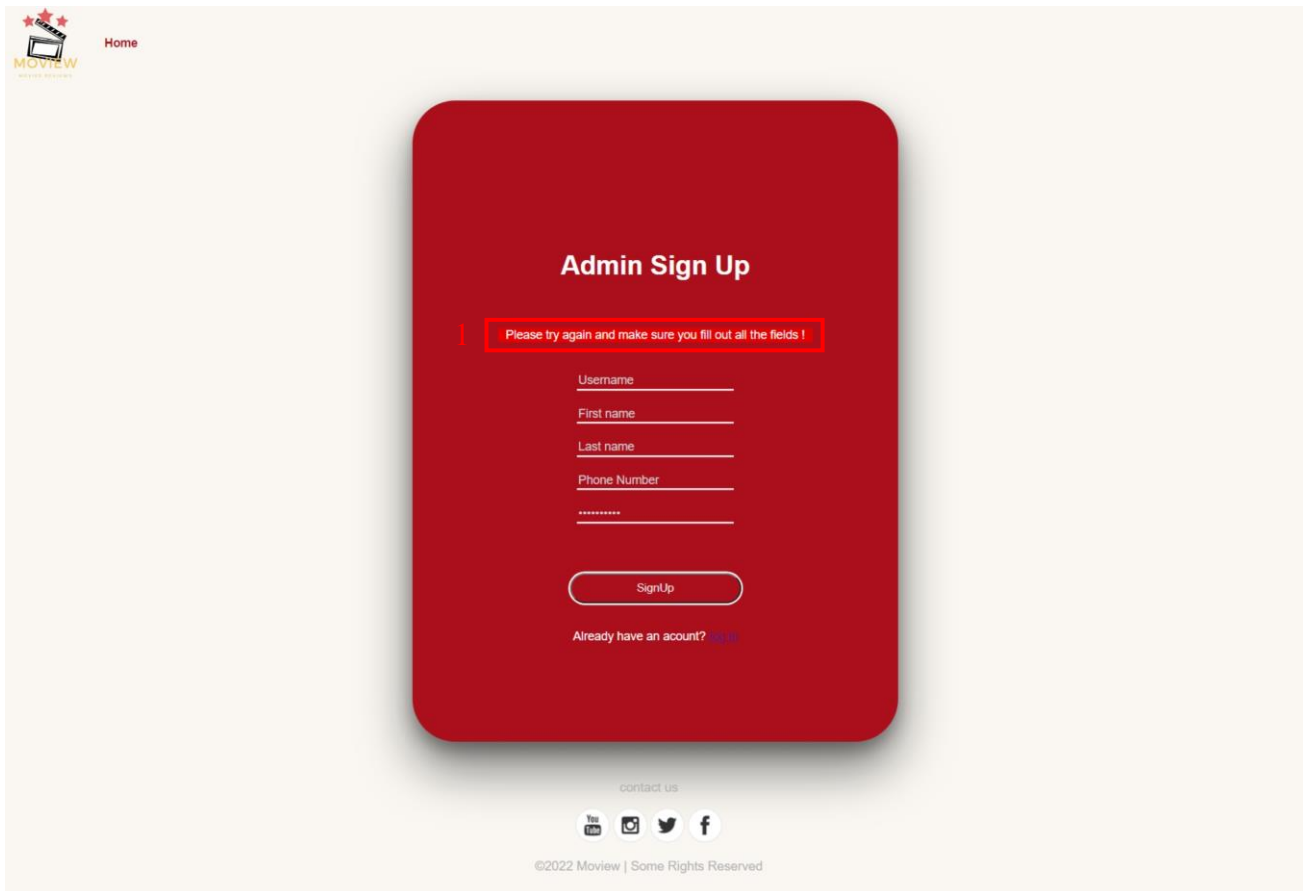


Figure 18 : Admin sign up page – empty filed message.

| # | Description   |
|---|---|
| 1 | Error message displayed when the user leaves a field empty. |

Table 19 : Admin sign up page – empty filed message description.

#### 4.2 The result if the user enters Invalid username:

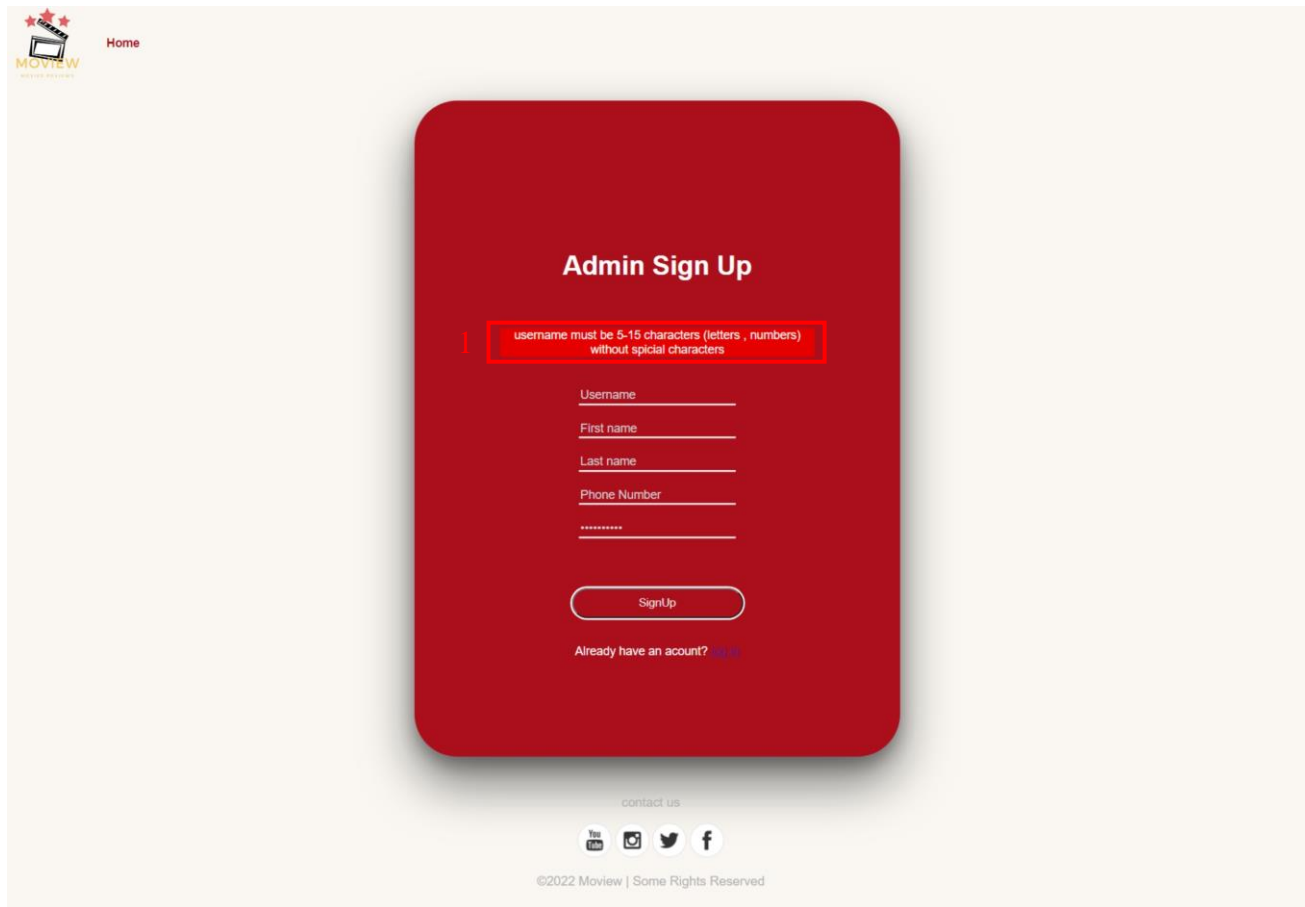


Figure 19 : Admin sign up page – Invalid username message.

| # | Description   |
|---|---|
| 1 | Error message displayed when the user enters a username that is not between 5-15 characters or contains special characters. |

Table 20 : Admin sign up page – Invalid username message description.

#### 4.3 The result if the user enters a username that already exists:

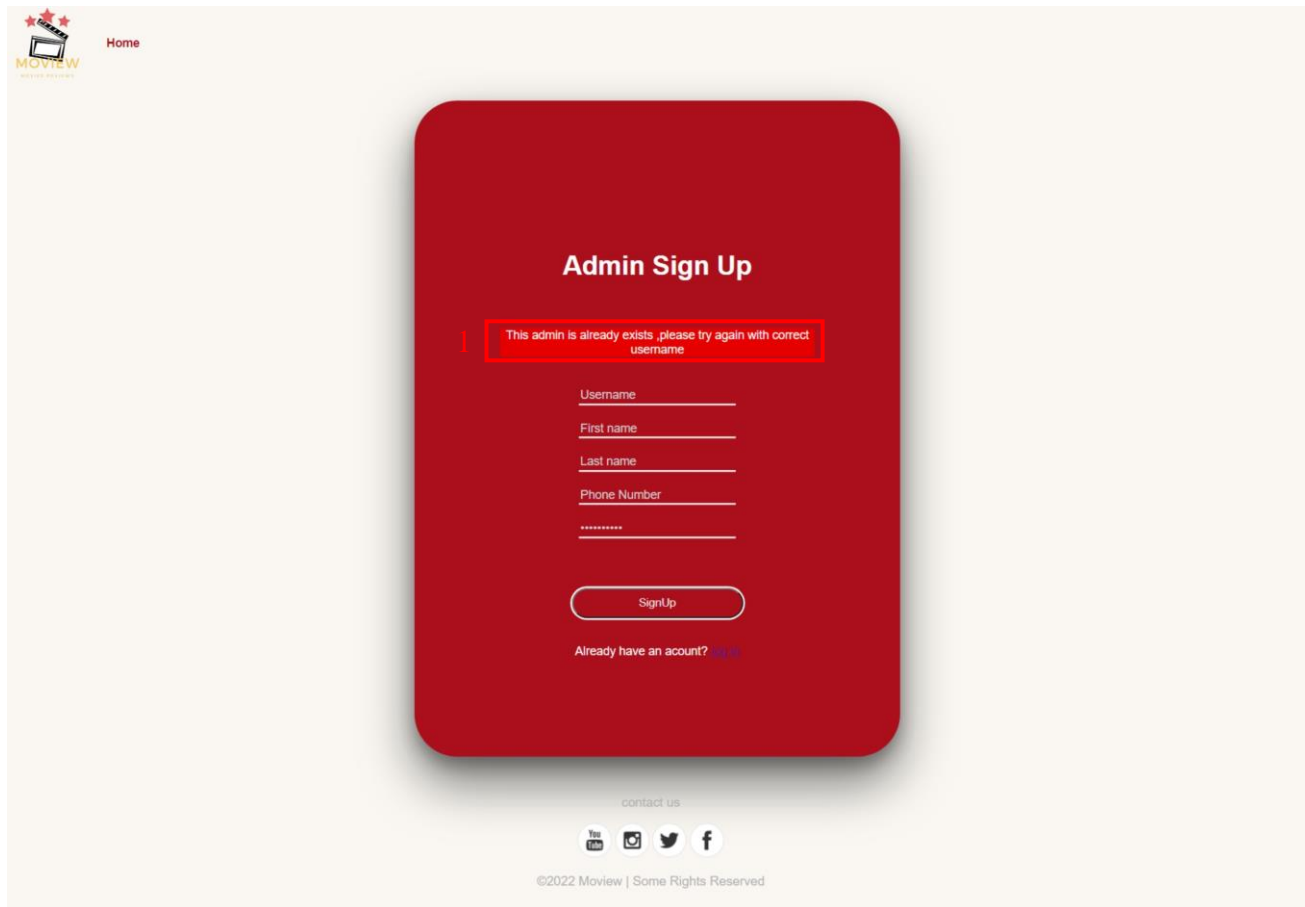


Figure 20 : Admin sign up page – existing username message.

| # | Description  |
|---|--|
| 1 | Error message displayed when the user enters a username that already exists. |

Table 21 : Admin sign up page – existing username message description.

#### 4.4 The result if the user enters Invalid first name or last name:



Figure 21 : Admin sign up page – Invalid first name or last name message.

| # | Description   |
|---|---|
| 1 | Error message displayed when the user enters a first name or last name less than 2 characters or contains a number. |

Table 22 : Admin sign up page – Invalid first name or last name message description.



#### 4.5 The result if the user enters Invalid phone number :

The screenshot shows the 'Admin Sign Up' page of the 'MOVIEW' application. A red error message box at the top of the form states: 'the phone number should start with 05 and contain 10 number in total like 05XXXXXXXX'. Below the message, the form fields are: Username, First name, Last name, Phone Number, and a password field with a strength indicator. A 'SignUp' button is at the bottom of the form. Below the button, there is a link 'Already have an account? login'. At the very bottom of the page, there is a 'contact us' link and social media icons for YouTube, Instagram, Twitter, and Facebook. The footer text reads '©2022 Moview | Some Rights Reserved'.

Figure 22 : Admin sign up page – Invalid phone number message.

| # | Description   |
|---|---|
| 1 | An error message displayed when the user enters a phone number that doesn't start with 05 or doesn't contain 10 numbers in total. |

Table 23 : Admin sign up page – Invalid phone number message description.

#### 4.6 The result if the user enters Invalid password:

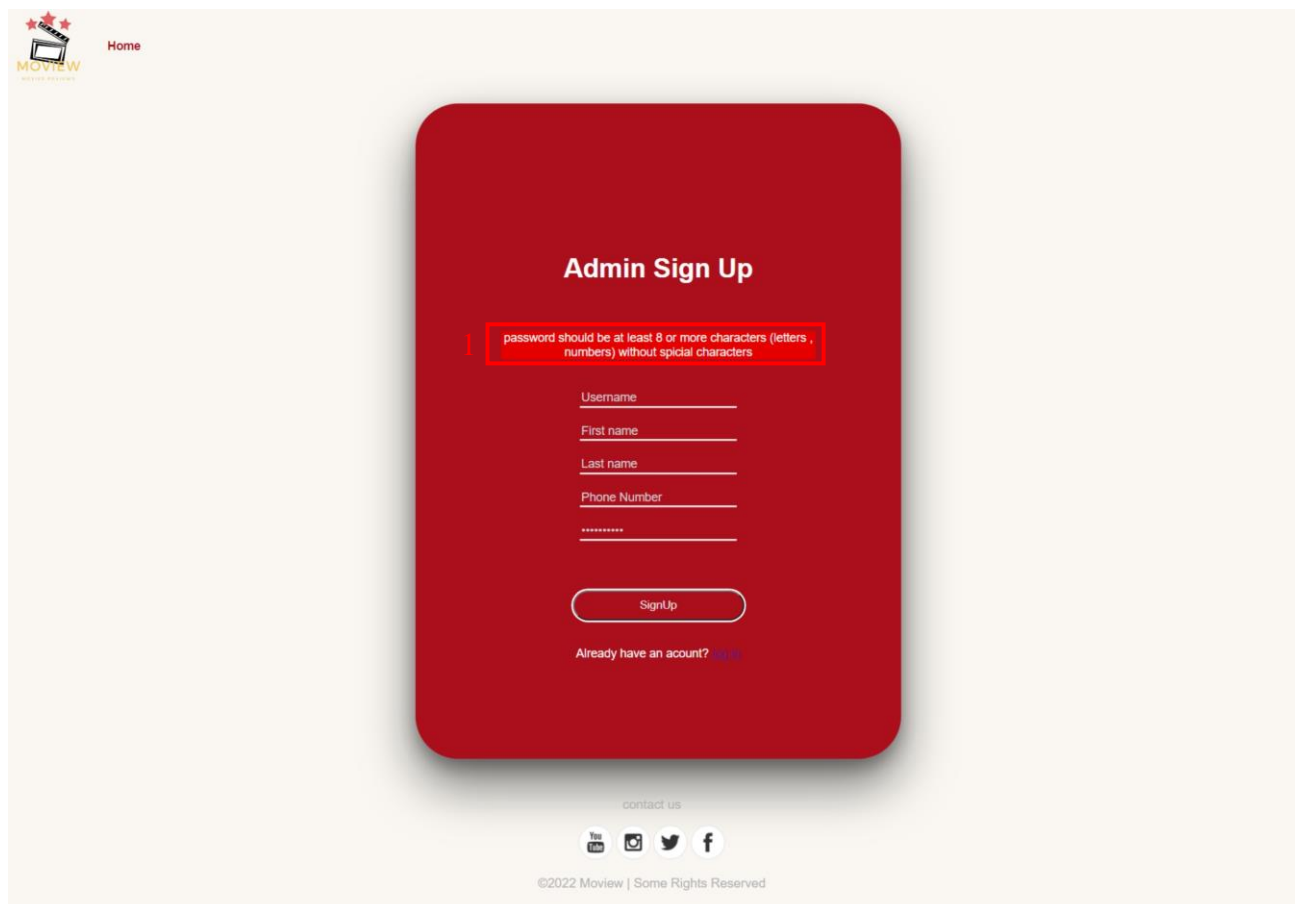


Figure 23 : Admin sign up page – Invalid password message.

| # | Description   |
|---|---|
| 1 | Error message displayed when the user enters a password less than 8 characters or contains special character. |

Table 24 : Admin sign up page – Invalid password message description.

## 5- Admin log in page:

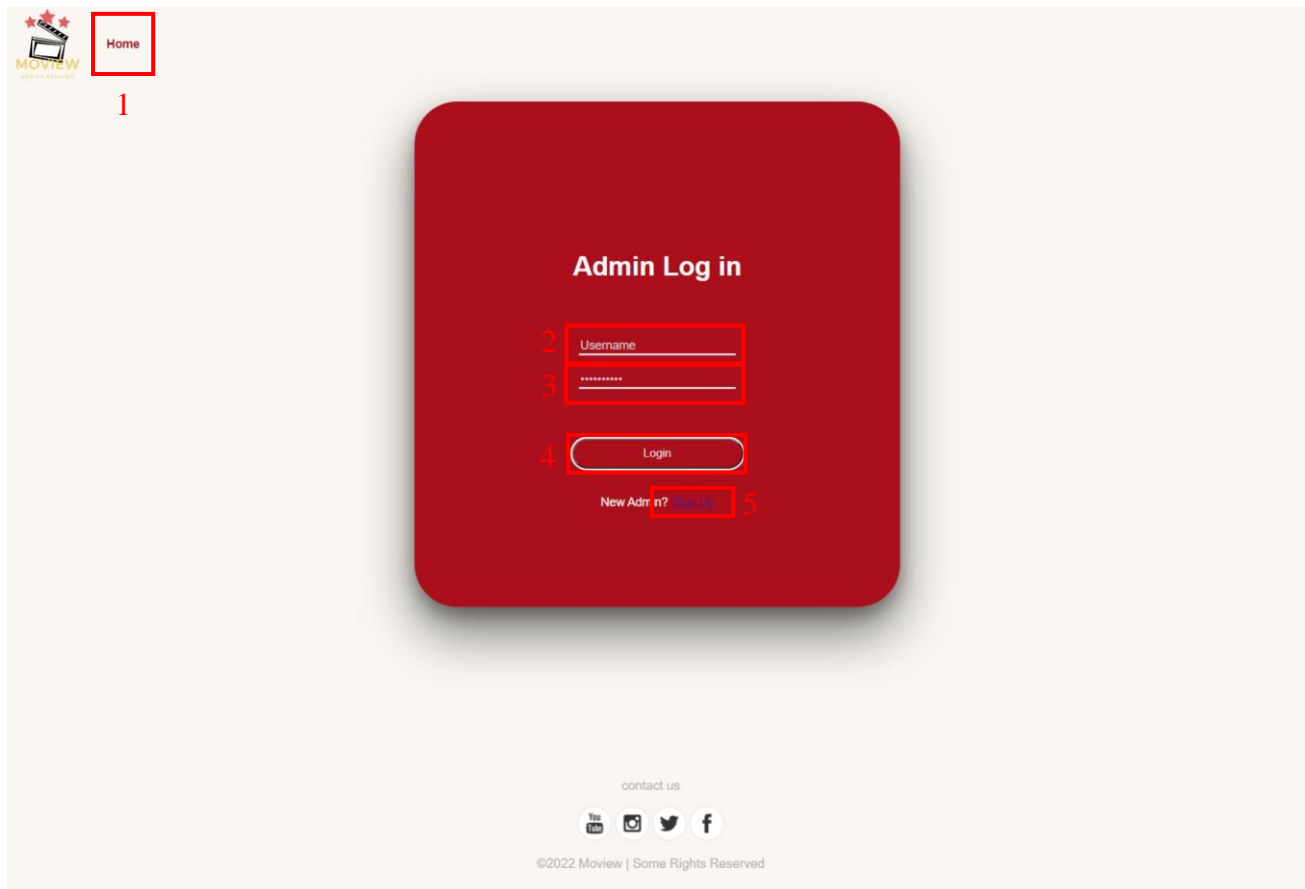


Figure 24 : Admin log in page.

| # | Description  |
|---|--|
| 1 | Button transfers the user to Homepage.               |
| 2 | Input field to for the username.                     |
| 3 | Input field to for the password.                     |
| 4 | Button transfers the user to the admin movies page.  |
| 5 | Button transfers the user to the admin sign up page. |

Table 25 : Admin log in page description.

## 5.1 The result if the user leaves a field empty :

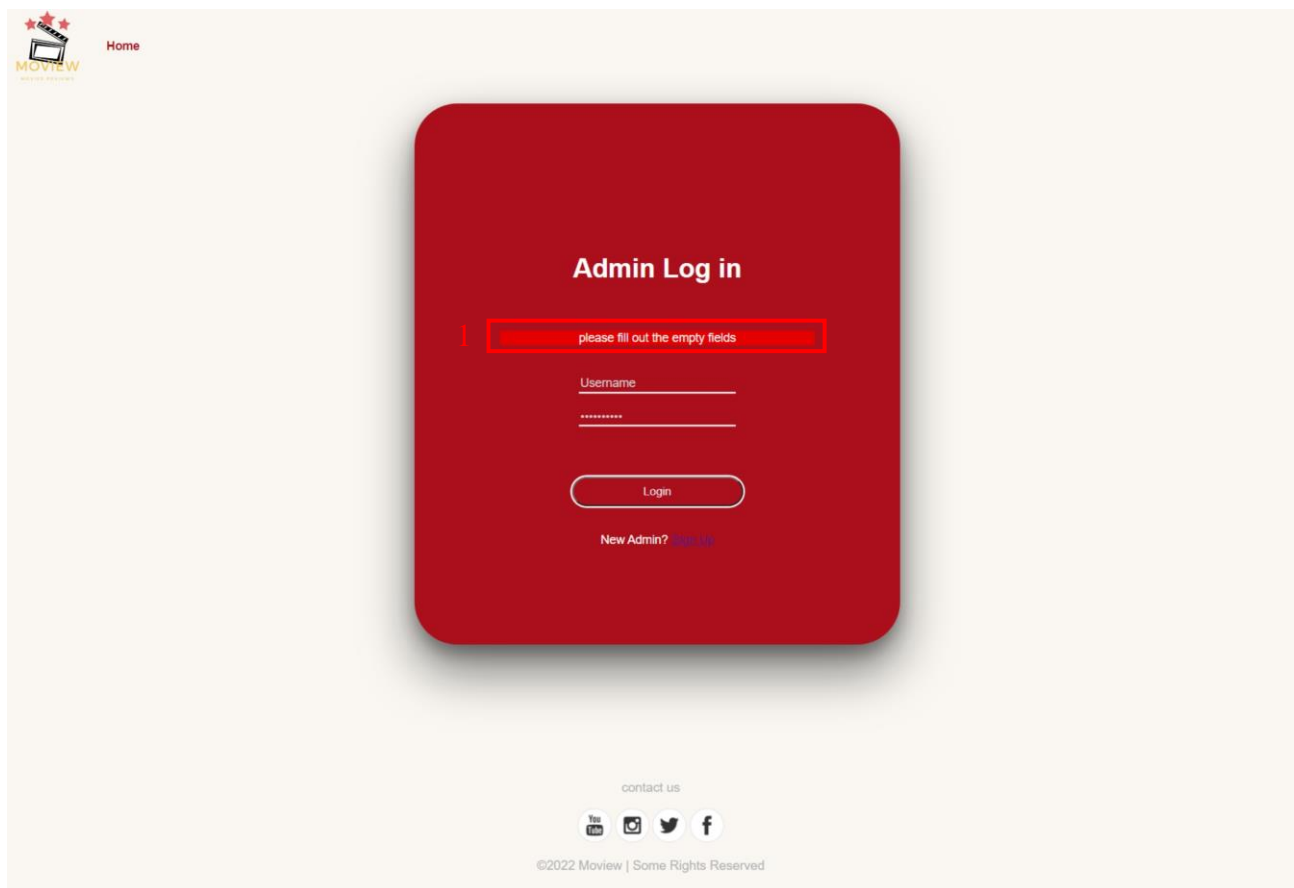


Figure 25 : Admin log in page – empty filed message.

| # | Description   |
|---|---|
| 1 | Error message displayed when the user leaves a field empty. |

Table 26 : Admin log in page – empty filed message description

## 5.2 The result if the user enters Incorrect username or password :

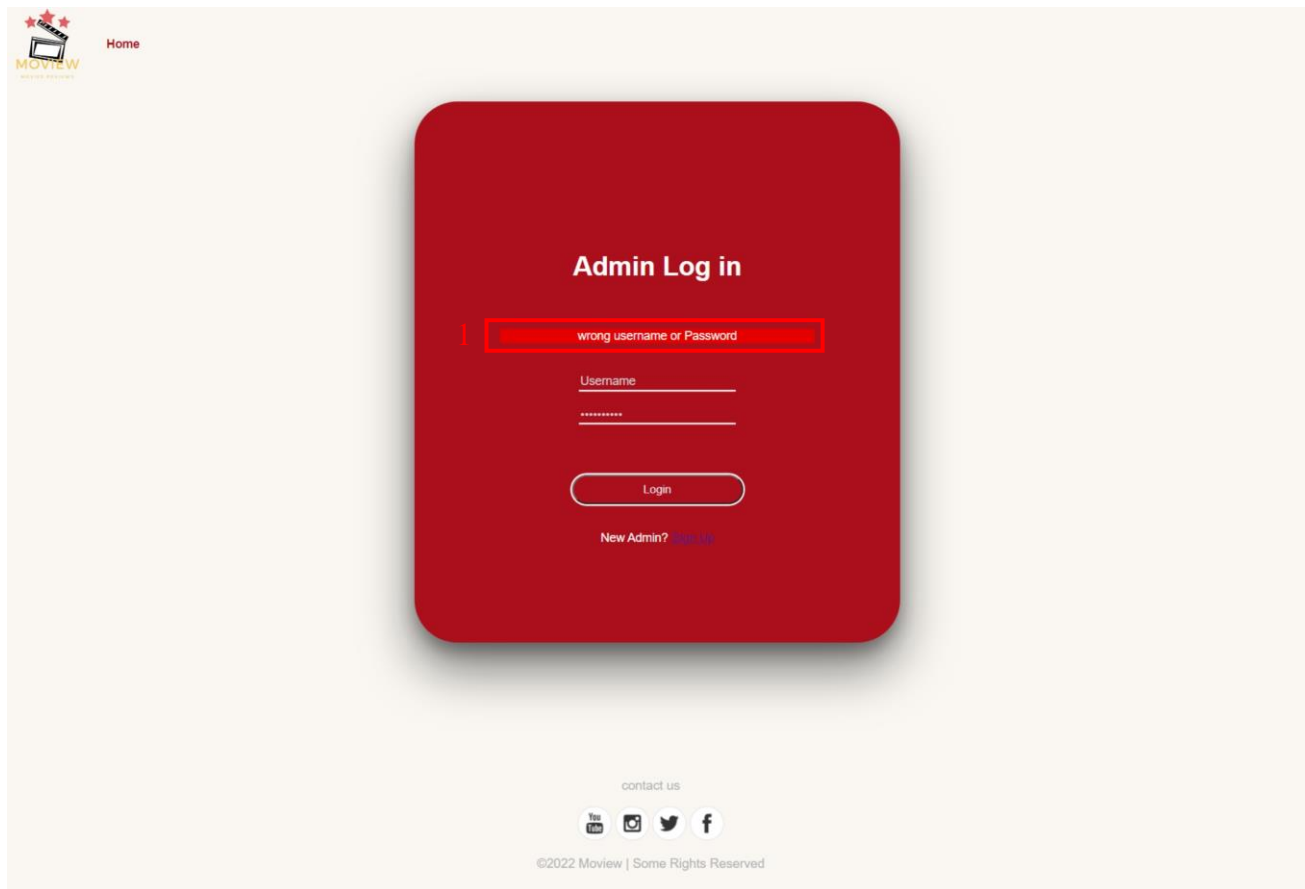


Figure 26 : Admin log in page – Incorrect username or password message.

| # | Description  |
|---|--|
| 1 | Error message displayed when the user enters Incorrect username or password. |

Table 27 : Admin log in page – Incorrect username or password message description.

## 6- Admin movies page :

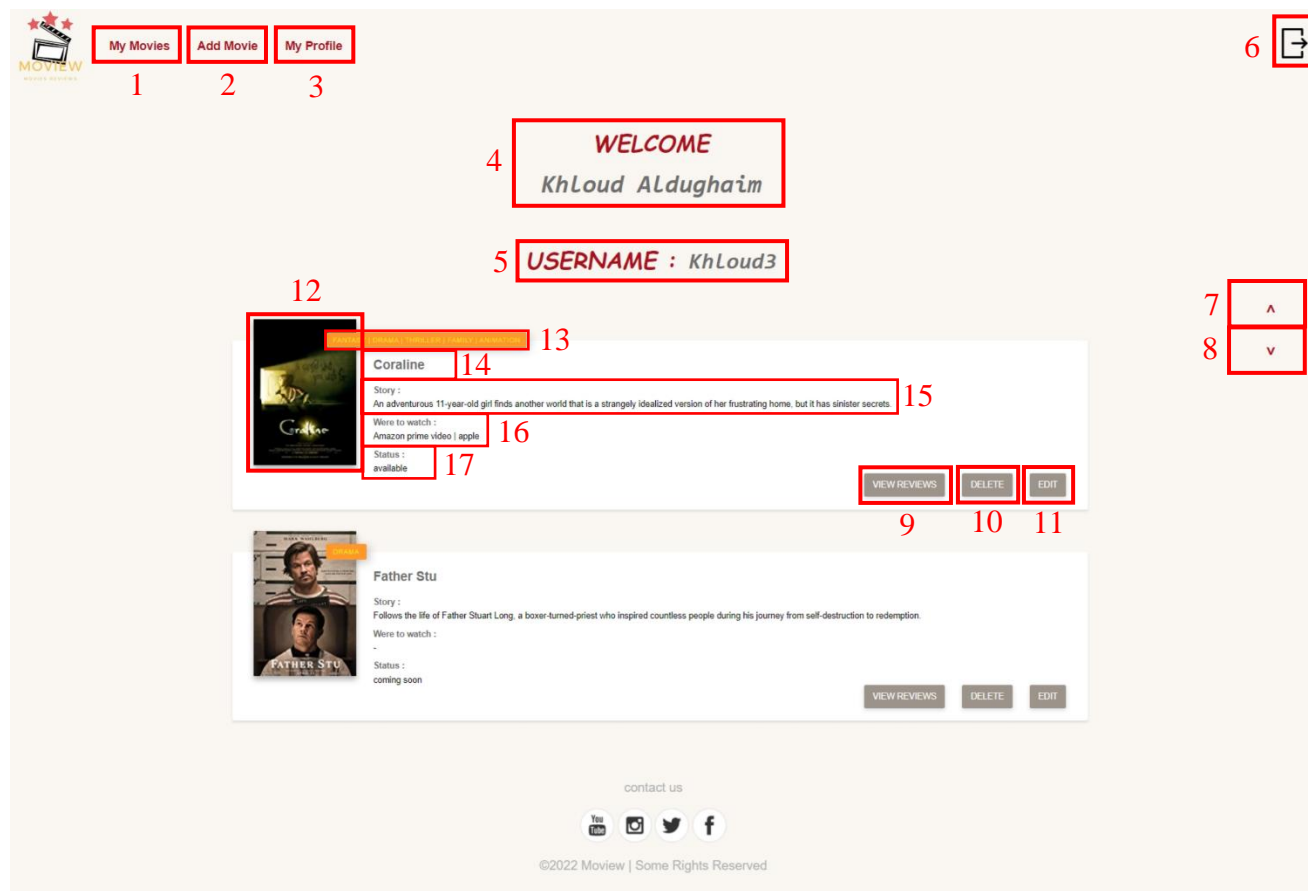


Figure 27 : Admin movies page.

| #  | Description   |
|----|---|
| 1  | Button transfers the user to the admin movies page.               |
| 2  | Button transfers the user to the add movie page.                  |
| 3  | Button transfers the user to the admin profile page.              |
| 4  | Text field for the user's first and last name.                    |
| 5  | Text field for the username.                                      |
| 6  | Button logs out the user and transfers him/her to the home page.  |
| 7  | Button transfers the user to the top of the admin movies page.    |
| 8  | Button transfers the user to the bottom of the admin movies page. |
| 9  | Button transfers the user to the admin view review page.          |
| 10 | Button deletes the movie.   |
| 11 | Button transfers the user to the edit movie page.                 |
| 12 | Image represents the poster of the movie.                         |
| 13 | Text field for the movie's genre.                                 |
| 14 | Text field for the movie's name.                                  |
| 15 | Text field for the movie's story.                                 |
| 16 | Text field for the streaming services that offers the movie.      |
| 17 | Text field for the status of the movie.                           |

Table 28 : Admin movies page description.

## 7- Admin view reviews page :

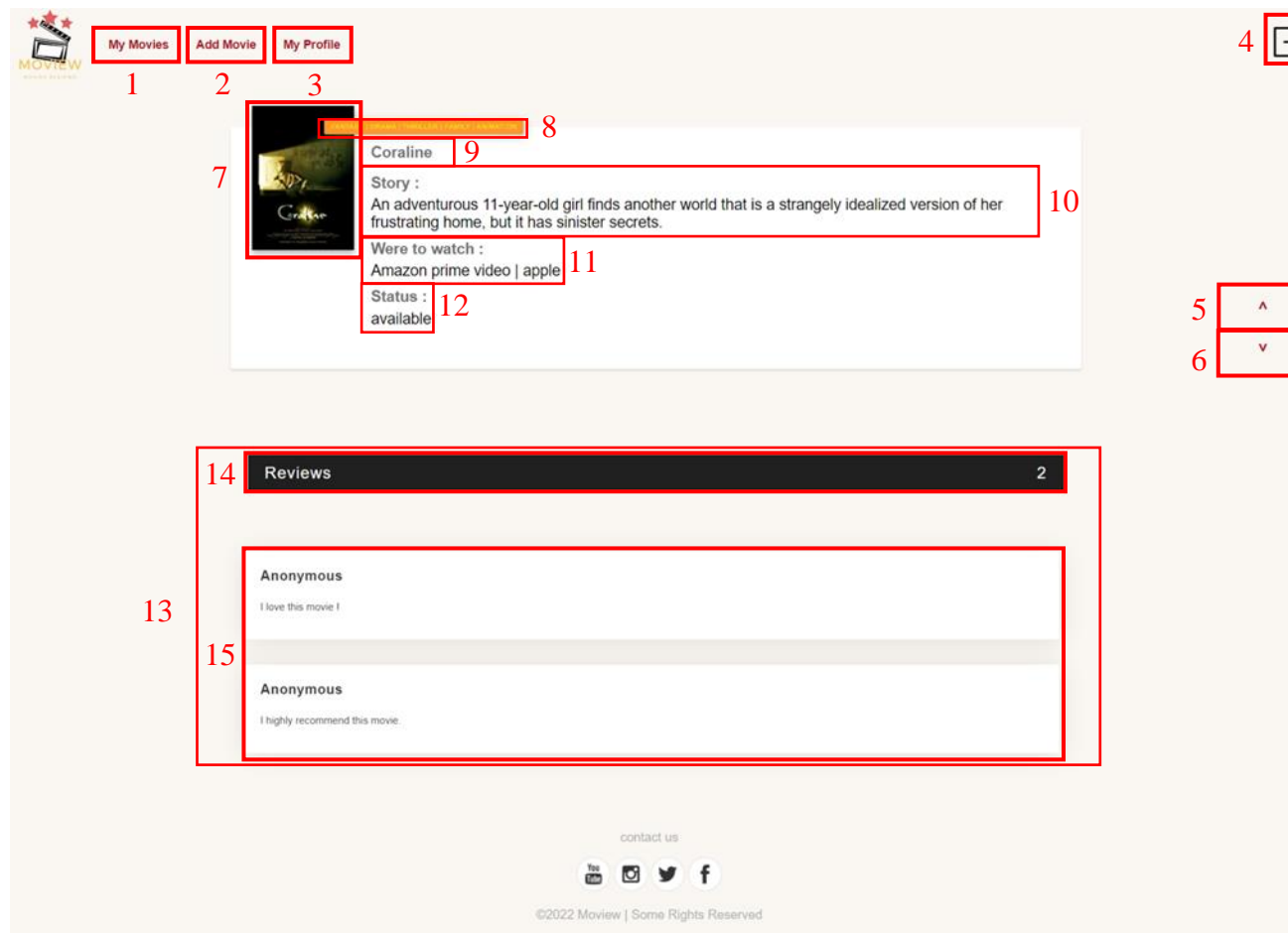


Figure 28 : Admin view reviews page.

| # | Description   |
|---|---|
| 1 | Button transfers the user to the admin movies page.                     |
| 2 | Button transfers the user to the add movie page.                        |
| 3 | Button transfers the user to the admin profile page.                    |
| 4 | Button logs out the user and transfers him/her to the home page.        |
| 5 | Button transfers the user to the top of the admin view reviews page.    |
| 6 | Button transfers the user to the bottom of the admin view reviews page. |
| 7 | Image represents the poster of the movie.                               |
| 8 | Text field for the movie's genre.                                       |



|    |   |
|----|---|
| 9  | Text field for the movie's name.  |
| 10 | Text field for the movie's story.   |
| 11 | Text field for the streaming services that offers the movie.                  |
| 12 | Text field for the status of the movie.                                       |
| 13 | Reviews section that lists all the reviews posted by the users.               |
| 14 | Text field for the total number of reviews posted for the movie by the users. |
| 15 | Reviews posted by the users.  |

Table 29 : Admin view reviews page description.

## 8- Edit movie page :

The screenshot shows the 'Edit Movie' page of a web application. The page has a top navigation bar with three links: 'My Movies' (1), 'Add Movie' (2), and 'My Profile' (3). A red box (4) highlights the 'Edit Movie' form. The form itself is titled 'Edit Movie' and contains several sections:

- Movie Name :** A text input field containing 'Father Stu' (5).
- Status :** A dropdown menu showing 'coming soon' (6).
- Type :** A section with multiple checkboxes for movie genres. The 'Drama' checkbox is checked (7). The genres listed are: Action, Comedy, Horror, Science Fiction, Adventure, Fantasy, Drama, Thriller, Romance, Crime, Western, Mystery, Biographical, War, Romantic Comedy, Dark Comedy, Heist, Historical Romance, Historical Film, Zombie, Music, Family, and Animation.
- Story :** A text area containing the description: 'Follows the life of Father Stuart Long, a boxer-turned-priest who inspired countless people during his journey from self-destruction to redemption.' (8).
- Where To Watch :** A section with checkboxes for various streaming services. The 'Netflix' checkbox is checked (9). The services listed are: Netflix, AMC Cinemas, Muvi Cinemas, Vox Cinemas, Youtube, Disney+, OSN, HBO, Amazon Prime Video, Apple, and -.
- Movie Poster :** A section with a 'Choose File' button and the text 'No file chosen' (10).
- Poster :** A text field containing the file path 'Poster-62814c10f047c8-15224590.jpg' (11).
- UPDATE :** A button to save the changes (13).

At the bottom of the page, there is a 'contact us' link and social media icons for YouTube, Instagram, Twitter, and Facebook. The footer text reads '©2022 Movie | Some Rights Reserved'.

Figure 29 : Edit movie page.

| #  | Description  |
|----|--|
| 1  | Button transfers the user to the admin movies page.              |
| 2  | Button transfers the user to the add movie page.                 |
| 3  | Button transfers the user to the admin profile page.             |
| 4  | Button logs out the user and transfers him/her to the home page. |
| 5  | Input field for the movie's name.                                |
| 6  | Drop down menu for the movie's status.                           |
| 7  | Check box for the movie's genre.                                 |
| 8  | Input field for the movie's story.                               |
| 9  | Check box for the places offers the movie.                       |
| 10 | Button to upload the movie's poster.                             |
| 11 | Text field for the URL of the movie's poster stored in database. |
| 12 | Image represents the poster of the movie.                        |
| 13 | Button updates the movie's information.                          |

Table 30 : Edit movie page description.

## 8.1 The result if the user updated the movie's information successfully :

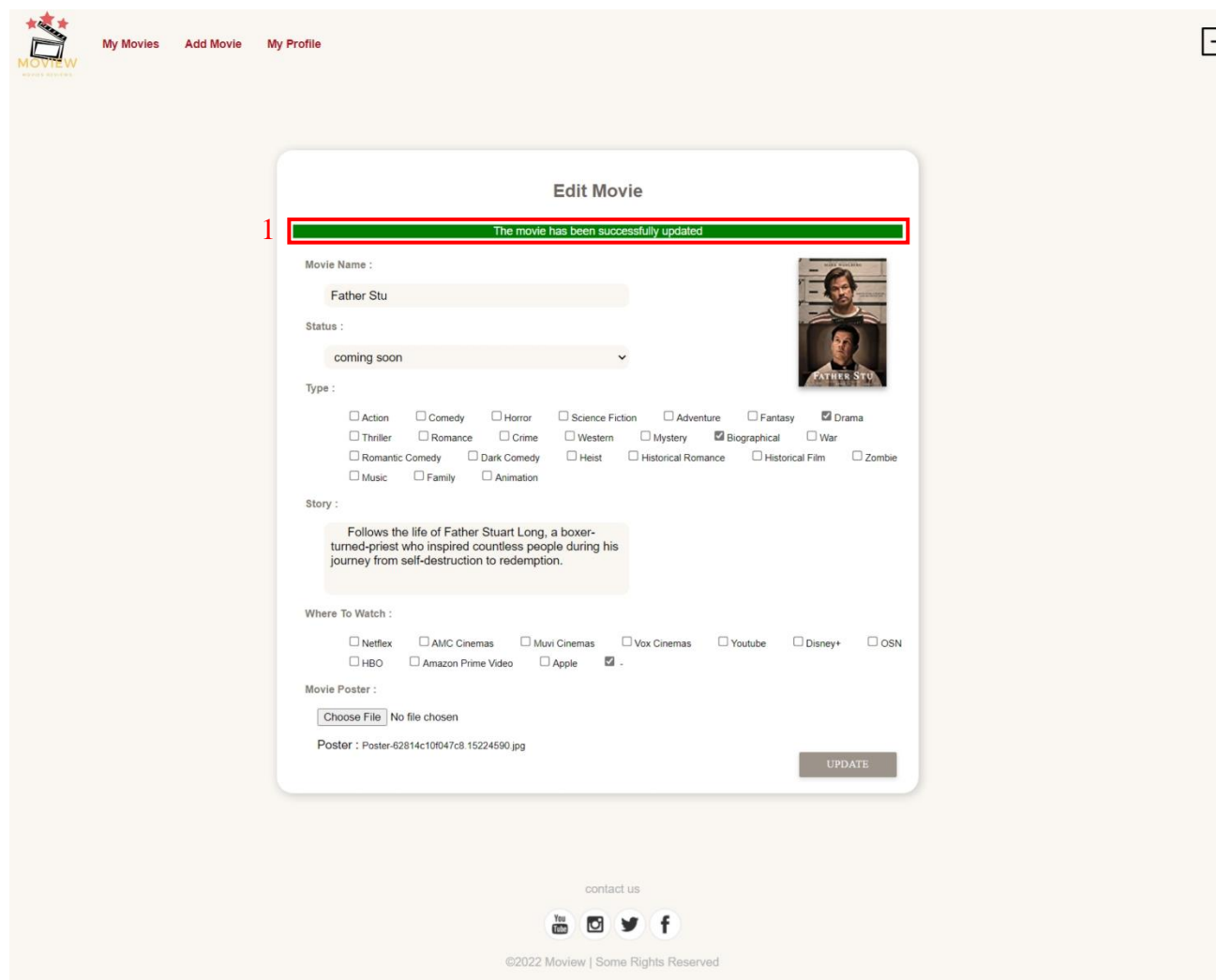


Figure 30 : Edit movie page – updating movie's information successfully.

| # | Description  |
|---|--|
| 1 | Message displayed when the movie's information updated successfully. |

Table 31 : Edit movie page – updating movie's information successfully description.

## 8.2 The result if the user leaves a field empty :

Figure 31 : Edit movie page – updating movie's information failed.

| # | Description   |
|---|---|
| 1 | Error message displayed when the user leaves a field empty. |

Table 32 : Edit movie page – updating movie's information failed description.

## 9- Add movie page :

The screenshot shows the 'Add Movie' page of a web application. The page has a top navigation bar with three buttons: 'My Movies' (1), 'Add Movie' (2), and 'My Profile' (3). A fourth button (4) is located in the top right corner. The main form is titled 'Add Movie' and contains the following elements:

- Movie Name :** An input field with the placeholder text 'Enter the name..' (5).
- Status :** A dropdown menu currently showing 'coming soon' (6).
- Type :** A section with multiple checkboxes for movie genres (7):
  - Action, Comedy, Horror, Science Fiction, Adventure, Fantasy, Drama
  - Thriller, Romance, Crime, Western, Mystery, Biographical, War
  - Romantic Comedy, Dark Comedy, Heist, Historical Romance, Historical Film, Zombie
  - Music, Family, Animation
- Story :** A large text area for entering the movie's story (8).
- Where To Watch :** A section with checkboxes for streaming services (9):
  - Netflix, AMC Cinemas, Mubi Cinemas, Vox Cinemas, Youtube, Disney+, OSN
  - HBO, Amazon Prime Video, Apple, .
- Movie Poster :** A section with a 'Choose File' button and the text 'No file chosen' (10).
- ADD :** A button to submit the form (11).

At the bottom of the page, there is a 'contact us' link and social media icons for YouTube, Instagram, Twitter, and Facebook. The footer text reads '©2022 Moview | Some Rights Reserved'.

Figure 32 : Add movie page.

| # | Description  |
|---|--|
| 1 | Button transfers the user to the admin movies page.              |
| 2 | Button transfers the user to the add movie page.                 |
| 3 | Button transfers the user to the admin profile page.             |
| 4 | Button logs out the user and transfers him/her to the home page. |
| 5 | Input field for the movie's name.                                |
| 6 | Drop down menu for the movie's status.                           |
| 7 | Check box for the movie's genre.                                 |

|    |  |
|----|--|
| 8  | Input field for the movie's story.         |
| 9  | Check box for the places offers the movie. |
| 10 | Button to upload the movie's poster.       |
| 11 | Button adds the movie.                     |

Table 33 : Add movie page description.

### 9.1 The result if the user adds a movie successfully:

The screenshot shows the 'Add Movie' form with a green success message at the top: 'The movie has been successfully added'. The form includes fields for 'Movie Name', 'Status' (set to 'coming soon'), 'Type' (with various genre checkboxes), 'Story', 'Where To Watch' (with platform checkboxes), and 'Movie Poster' (with a file upload button). The 'ADD' button is at the bottom right.

Figure 33 : Add movie page – adding a movie successfully.

| # | Description  |
|---|--|
| 1 | Message displayed when the user adds a movie successfully. |

Table 34 : Add movie page – adding a movie successfully description.



## 9.2 The result if the user leaves a field empty :

The screenshot shows a web application interface for adding a movie. At the top, there are navigation links: "My Movies", "Add Movie", and "My Profile". The "Add Movie" link is highlighted. Below the navigation bar, there is a form titled "Add Movie". A red box highlights an error message at the top of the form: "Please try again and make sure you fill out all the fields !". The form fields include: "Movie Name" (text input), "Status" (dropdown menu showing "coming soon"), "Type" (checkboxes for various genres like Action, Comedy, Horror, etc.), "Story" (text area), "Where To Watch" (checkboxes for various streaming services like Netflix, AMC Cinemas, etc.), and "Movie Poster" (file upload button). At the bottom of the form is an "ADD" button. Below the form, there are social media icons and a copyright notice: "©2022 Moview | Some Rights Reserved".

Figure 34 : Add movie page – adding a movie failed.

| # | Description   |
|---|---|
| 1 | Error message displayed when the user leaves a field empty. |

Table 35 : Add movie page – adding a movie failed description.

### 9.3 The result if the user uploads invalid file type :

The screenshot shows the 'Add Movie' form with a red error message at the top: "You can't upload files of this type , you can only upload (jpg, jpeg, png)". The form includes fields for Movie Name, Status (set to 'coming soon'), Type (with checkboxes for various genres like Action, Comedy, Horror, etc.), Story (a text area), Where To Watch (with checkboxes for various streaming services), and Movie Poster (with a 'Choose File' button). The 'ADD' button is at the bottom right.

Figure 35 : Add movie page – invalid file type.

| # | Description  |
|---|--|
| 1 | Error message displayed when the user uploads a file that is not of the ( jpg , jpeg , png ) type. |

Table 36 : Add movie page – invalid file type description.

## 10- Admin profile page :

The screenshot shows the Admin profile page. At the top, there are three navigation buttons: 'My Movies' (1), 'Add Movie' (2), and 'My Profile' (3). In the top right corner, there is a button with a right-pointing arrow (4). The main content area is titled 'Profile' and contains several input fields: 'Username' (5) with the value 'Khlood3', 'First Name' (6) with the value 'Khlood', 'Last Name' (7) with the value 'Aldughaim', 'Phone Number' (8) with the value '0504977733', and 'Password' (9) which is masked with dots. An 'UPDATE' button (10) is located at the bottom right of the profile form. At the bottom of the page, there is a 'contact us' link and social media icons for YouTube, Instagram, Twitter, and Facebook. The footer text reads '©2022 Moview | Some Rights Reserved'.

Figure 36 : Admin profile page.

| # | Description  |
|---|--|
| 1 | Button transfers the user to the admin movies page.              |
| 2 | Button transfers the user to the add movie page.                 |
| 3 | Button transfers the user to the admin profile page.             |
| 4 | Button logs out the user and transfers him/her to the home page. |
| 5 | Text field for the username.                                     |
| 6 | Input field to for the first name.                               |
| 7 | Input field to for the last name.                                |

|    |  |
|----|--|
| 8  | Input field to for the phone number.   |
| 9  | Text field to for the password.        |
| 10 | Button updates the user's information. |

Table 37 : Admin profile page description.

10.1 The result if the user updated the profile information successfully :

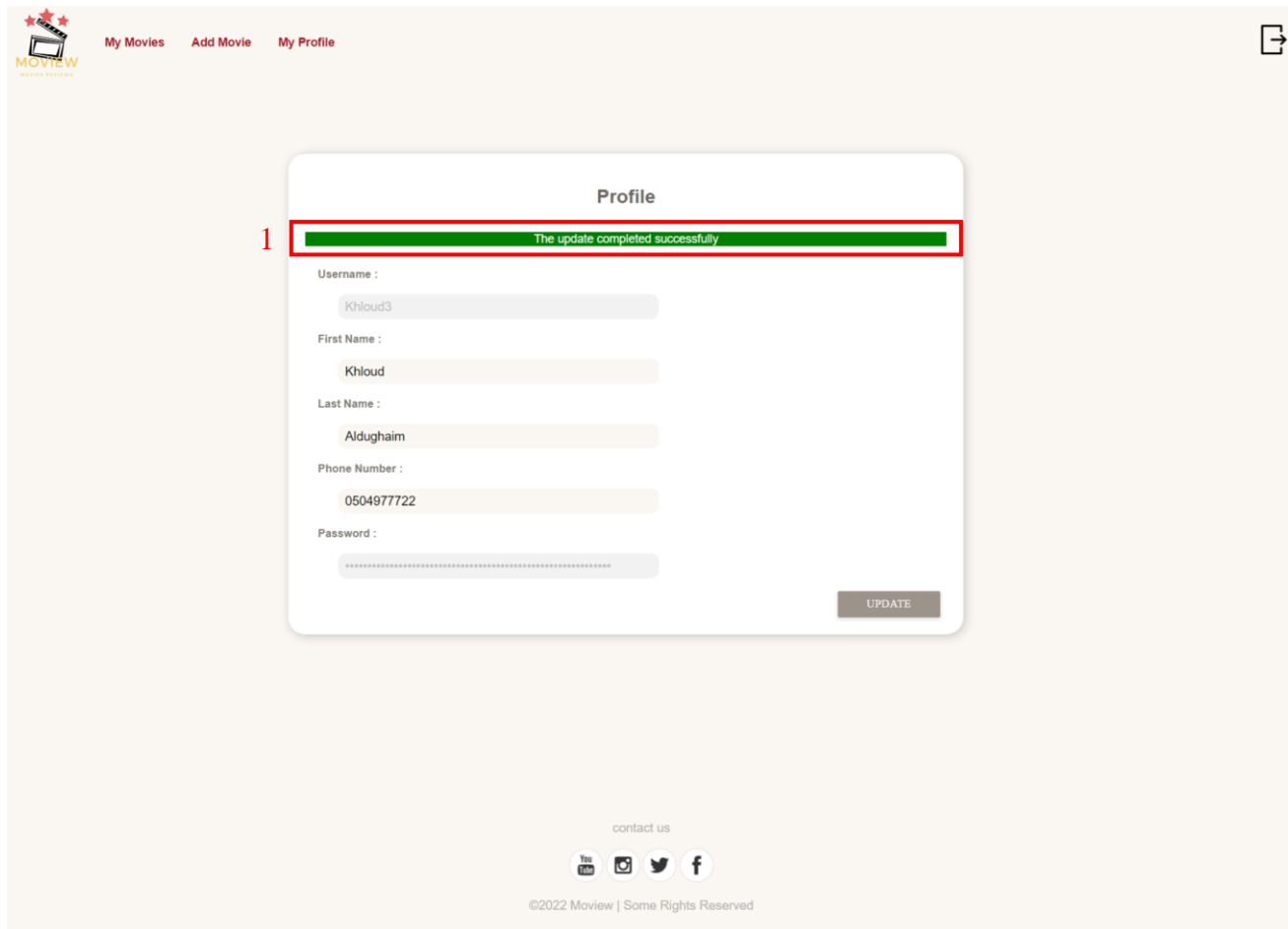


Figure 37 : Admin profile page – updating profile information successfully.

| # | Description   |
|---|---|
| 1 | Message displayed when the user profile updated successfully. |

Table 38 : Admin profile page – updating profile information successfully description.

## 10.2 The result if the user enters Invalid first name or last name :

The screenshot shows the 'Profile' page of the 'MOVIE' application. At the top, there are navigation links: 'My Movies', 'Add Movie', and 'My Profile'. The 'Profile' form contains the following fields: Username (Khlood3), First Name (Khlood12), Last Name (Aldughaim), Phone Number (0504977722), and Password (masked). A red error message box is displayed at the top of the form, stating: 'first name and last name must be characters and more than 2'. The 'UPDATE' button is located at the bottom right of the form. At the bottom of the page, there are social media icons for YouTube, Instagram, Twitter, and Facebook, along with the text 'contact us' and '©2022 Movie | Some Rights Reserved'.

Figure 38 : Admin profile page – Invalid first name or last name message.

| # | Description   |
|---|---|
| 1 | Error message displayed when the user enters a first name or last name less than 2 characters or contains a number. |

Table 39 : Admin profile page – Invalid first name or last name message description.

### 10.3 The result if the user enters Invalid phone number :

The screenshot shows the 'Profile' form on the 'My Profile' page. The form fields are: Username (Khlood3), First Name (Khlood), Last Name (Aldughaim), Phone Number (0504977722), and Password. A red error message box is displayed above the Phone Number field, stating: 'the phone number should start with 05 and contain 10 number in total like 05XXXXXXXX'. The 'UPDATE' button is at the bottom right of the form.

Figure 39 : Admin profile page – Invalid phone number message.

| # | Description  |
|---|--|
| 1 | Error message displayed when the user enters a phone number that doesn't start with 05 or doesn't contain 10 numbers in total. |

Table 40 : Admin profile page – Invalid phone number message description.

#### 10.4 The result if the user leaves a field empty :

The screenshot shows the 'Profile' page of the 'MOVIEW' application. At the top, there are navigation links: 'My Movies', 'Add Movie', and 'My Profile'. The 'My Profile' link is active. A red box highlights an error message: 'Please try again and make sure you fill out all the fields !'. Below the error message, the profile form is displayed with the following fields and values:

- Username :** Khloud3
- First Name :** Khloud
- Last Name :** Aldughaim
- Phone Number :** 0504977722
- Password :** (masked with asterisks)

An 'UPDATE' button is located at the bottom right of the form. At the bottom of the page, there is a 'contact us' link and social media icons for YouTube, Instagram, Twitter, and Facebook. The footer text reads: '©2022 Moview | Some Rights Reserved'.

Figure 40 : Admin profile page – empty field message.

| # | Description   |
|---|---|
| 1 | Error message displayed when the user leaves a field empty. |

Table 41 : Admin profile page – empty field message description.



## 11- Admin information page:

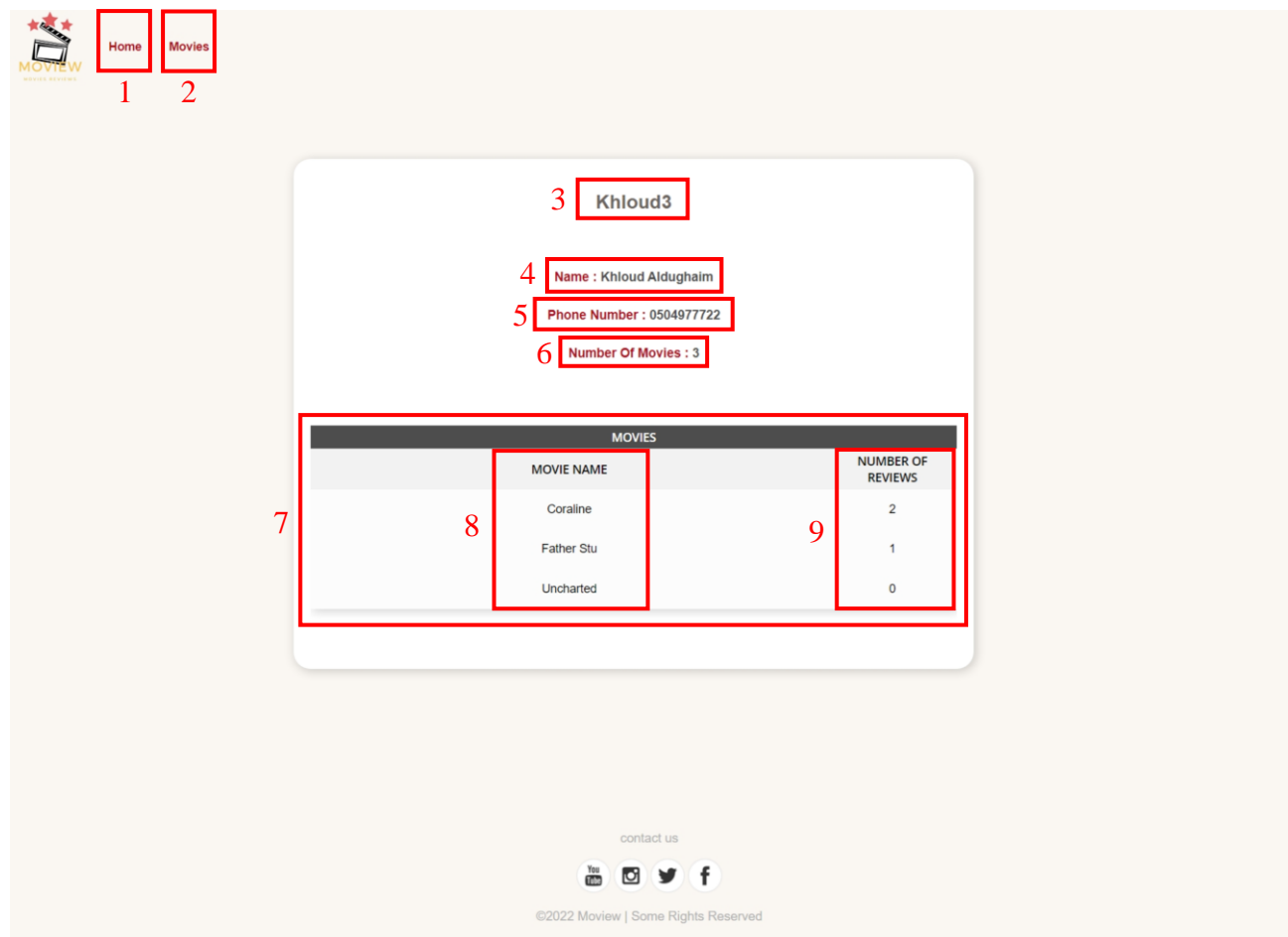


Figure 41 : Admin information page.

| # | Description   |
|---|---|
| 1 | Button transfers the user to the Homepage.              |
| 2 | Button transfers the user to the guest movies page.     |
| 3 | Text field for the username of the admin.               |
| 4 | Text field for the name of the admin.                   |
| 5 | Text field for the phone number of the admin.           |
| 6 | Text field for the number of movies added by the admin. |
| 7 | Table shows the movies added by the admin.              |

|   |   |
|---|---|
| 8 | Column for the movies names.                            |
| 9 | Column for the number of reviews posted for each movie. |

Table 42 : Admin information page description.

## 5 Chapter 5: Implementation

This section describes the processes of implementing Moview system along with the components and code-fragments of the major functions. First of all, the software tools we used to implement Moview were Apache NetBeans, MAMP, Jira and GitHub. Table 36 shows their description.

| SW              | Description   |
|-----------------|---|
| Apache NetBeans | Apache NetBeans is an IDE offers a development environment to build software applications in various languages such as Java , PHP, CSS and HTML5..etc and integrate with external tools and services.[1][2]   |
| MAMP            | MAMP is a free, local server environment that can be installed under macOS and Windows . It provides us all the tools needed for testing or development purposes such as Apache which turns the computer into a fully functioning server, MySQL which allows us to easily manage the databases, and PHP which is the most commonly used programming language for creating back-end websites.[3] |
| GitHub          | A code hosting platform used to manage and integrate source code.[4]  |
| Jira            | A software tool designed to help plan, track, and release software.[5]  |

Table 43 : Software tools.

Moreover, we created Moview database that consists of three tables which are admin, movie and review. Also, we implemented lots of features for the system which are sign up, log in, log out, search for a movie, view movies, view admin information, view reviews, post reviews, add movie, edit movie and delete movie. While implementing these features, we faced some difficulty inserting data contains a single quote ( ' ) from the submitted form in "Edit movie" page, "Add movie" page and from the textarea of the "Post review" section in the "View reviews" page. In order to fix that, we needed to escape the strings using the "mysqli\_real\_escape\_string()" function.

GitHub link : <https://github.com/IT320ProjectW3/Moview.git>

## 6 Chapter 6: Testing

### 6.1 User Story Acceptance Testing

Use the following table to document user acceptance testing.

| Sprint Number | User story   | Acceptance criteria  | Test action(s)   | Pass ? | Comments |
|---------------|--|--|--|--------|----------|
| sprint 1      | As a guest, I would like to be able to search for a specific movie, so that I can find it easily.                                  | As a guest, If I fill in the “Search” field with the name of an Not existing movie and I click the “search” button Then the system will not shows any movie.   | Go to guest page and tried writing name of an Not existing movie.  | yes    |          |
|               |  | As a guest, If I fill in the “Search” field with the name of an existing movie and I click the “search” button Then the system shows movies matching the entered movie name.   | Go to guest page and tried writing name of an existing movie.  | yes    |          |
| sprint 1      | As a guest, I would like to be able to find where to watch a movie, so that it saves my time.                                      | As a guest, If I open movies page then I can see list of places in “where to watch “ in each movie .   | Go to guest page and see “where to watch” in each movie.   | yes    |          |
| sprint 2      | As a guest, I would like to be able to post a review of a movie, so that I can share my opinion and benefit from other's opinions. | As a guest, If I choose a certain movie and click view Reviews then its page opens and click on post a review, and write a review in the text area and press Post button, then a pop up message will appears that the review posted successfully . | Go to guest page and press view reviews for any movie ,then press post a review button and tried to write a review in the text area and post it. | yes    |          |
|               |  | As a guest, If I choose a certain movie and click view Reviews then its page opens and click on post a review, and press Post button without writing in the text   | Go to guest page and press view reviews for any movie ,then press post a review button and tried to press post button without                    | yes    |          |

|          |  |  |  |     |  |
|----------|--|--|--|-----|--|
|          |  | area, then a pop up error message will appears.  | writing any thing in the text area.  |     |  |
| sprint 1 | As a guest, I would like to be able to view reviews on a movie, so that I can decide whether to watch it or not. | As a guest, If I choose a certain movie and click view reviews and its page opens then all reviews the have been posted before on this movie will appears.                                       | Go to guest page and press view reviews for any movie.                                 | yes |  |
| sprint 2 | As an admin, I would like to be able to sign up ,so that I can add movies and manage them.                       | As an Admin, If I go to the sign up page and enter username and password and the other information correctly, then the admin has been sign up successfully .                                     | Go to sign up page , Tried a combination of correct username , password .....etc.      | yes |  |
|          |  | As an Admin, If I go to the sign up page and enter username and password and the other information incorrectly, then sign up fails with an error message specifying the wrong.                   | Go to sign up page , Tried a combination of incorrect username or password or.....etc. | yes |  |
|          |  | As an Admin, If I go to the sign up page and click on sign up without writing any thing in the fields , then sign up fails with an error message that the fields are empty.                      | Go to sign up page , Tried click sign up without writing any thing in the fields .     | yes |  |
| sprint 2 | As an admin, I would like to be able to log in , so that I can manage my movies.                                 | As an Admin, If I go to the login page and enter my username and password and click login , then the data associated with my user should be accessible.  | Go to login page , Tried a combination of correct username and password.               | yes |  |
|          |  | As an Admin, If I go to the login page and enter an incorrect username and password and click login , then login fails with an error message specifying that the username or password was wrong. | Go to login page , Tried a combination of incorrect username and password.             | yes |  |

|          |   |  |   |     |  |
|----------|---|--|---|-----|--|
|          |   | As an Admin, If I go to the login page and click on Login without writing any thing in the username and password , then login fails with an error message that the fields are empty. | Go to login page , Tried click log in without writing any thing in the fields.      | yes |  |
| sprint 1 | As an admin, I would like to be able to log out , so that I can protect my data .             | As an Admin, If I click on logout , then the session will end .  | Click on logout icon.   | yes |  |
| sprint 1 | As an admin, I would like to be able to view movies, so that I can manage them.               | As an admin, if i click on mymovies, then i can see all my movies listed and i can manage them.  | Click on my movies.   | yes |  |
| sprint 2 | As an admin, I would like to be able to add movies, so that I can make it available to users. | As an admin, if i click on add a movie and then fill all information correctly about the movie and click on add, then a message appears that the movie added successfully.           | Go to add movie page , tried fill all information correctly about the movie.        | yes |  |
|          |   | As an admin, if i click on add a movie and then fill the information incorrectly about the movie and click on add, then an error message appears specifying the wrong.               | Go to add movie page , tried fill the information incorrectly about the movie.      | yes |  |
|          |   | As an admin, if i click on add a movie and click on add button without writing any thing in the fields , then an error message appears that the fields are empty .                   | Go to add movie page , click on add button without writing any thing in the fields. | yes |  |
| sprint 2 | As an admin, I would like to delete movies, so that I can make it unavailable to users.       | As an admin , if i click on the delete button for the movie that i want to delete it , then the movie will be unavailable to the users.  | Go to my movies page ,Press delete button for any movie.                            | Yes |  |

|          |   |  |  |     |  |
|----------|---|--|--|-----|--|
| sprint 2 | As an admin, I would like to update movies, so that I can have updated information. | As an admin , if i click on the edit button for the movie that i want to update it ,and update movie's information correctly and click on update, then a message appears that the movie updated successfully.      | Go to my movies page ,Press edit button for any movie , Tried update movie's information correctly.          | yes |  |
|          |   | As an admin , if i click on the edit button for the movie that i want to update it ,and update movie's information incorrectly and click on update, then an error message appears specifying the wrong.            | Go to my movies page ,Press edit button for any movie , Tried update movie's information incorrectly.        | yes |  |
|          |   | As an admin , if i click on the edit button for the movie that i want to update it ,and update movie's information with empty fields and click on update, then an error message appears that the fields are empty. | Go to my movies page ,Press edit button for any movie , Tried update movie's information with empty fields . | yes |  |
|          |   | As an admin , if i click on the edit button for the movie that i want to update it ,and click on update without change any thing , then a message appears that there is no changes.                                | Go to my movies page ,Press edit button for any movie , click on update without change any thing.            | no  | The system display the message "the movies updated successfully" instead of display the message "there is no changes". |
|          |   | As an Admin, If I click on my profile and update my information correctly and click on update , then a message appears that the profile updated successfully   | Go to my profile page, Tried change profile information correctly and click update.                          | yes |  |

|          |   |  |   |     |  |
|----------|---|--|---|-----|--|
| sprint 2 | As an Admin, I would like to be able to edit my profile, so that I can have an updated profile which people can view.           |  |   |     |  |
|          |   | As an Admin, If I click on my profile and update my information incorrectly and click on update , then an error message appears specifying the wrong.            | Go to my profile page, Tried change profile information incorrectly and click update. | yes |  |
|          |   | As an Admin, If I click on my profile and update my information with empty fields and click on update , then an error message appears that the fields are empty. | Go to my profile page, Tried update profile information with empty fields .           | yes |  |
|          |   | As an Admin, If I click on my profile and click on update without change any thing, then a message appears that there is no changes.                             | Go to my profile page , click on update without change any thing.                     | yes |  |
| sprint 2 | As a guest, I would like to be able to interact with the system and learn how to use its main functionalities with less effort. | As a guest, if I spend an hour browsing the website and using some of its main functionality then the number of mistakes shouldn't exceed two.                   | ran performance tests on the functions that belong to a guest.                        | yes |  |
|          |   | As a user, if I perform a task then the time it takes should not exceed 2 minutes.   | ran performance tests on the tasks that belong to a guest.                            | yes |  |
| sprint 2 | would like my account information to  | As an Admin, if I press on my account information the  | ran performance tests on clicking   | yes |  |



|  |   |  |                         |  |  |
|--|---|--|-------------------------|--|--|
|  | display within 5 seconds on my request so that I don't get frustrated and find another site to use. | response time should be less than 8 seconds. | on account information. |  |  |
|--|---|--|-------------------------|--|--|

Table 44: User acceptance testing

## 6.2 Integration Testing

Provide an *integration hierarchy* and an *integration testing plan*.

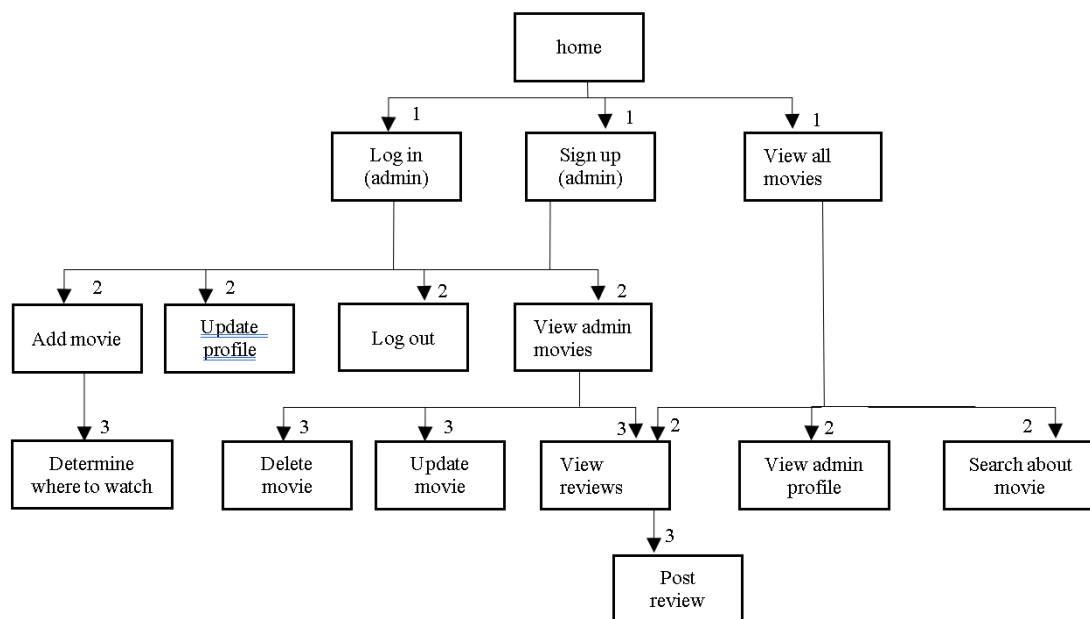


Figure 42: Integration hierarchy

| System components                                     | New component                        | Test case   | Pass ? | Comments |
|---|--------------------------------------|---|--------|----------|
| - Home  | logging in the system                | 1- the home page has been shown.<br>2- an admin was logged in the system successfully.  | yes    |          |
| - Home<br>- logging in the system                     | Adding a movie                       | 1-the home page has been shown.<br>2- an admin was logged in the system successfully.<br>3- the logged in admin selected the add movie option.  | yes    |          |
| - Home<br>- logging in the system<br>- Adding a movie | determining where to watch the movie | 1-the home page has been shown.<br>2- an admin was logged in the system successfully.<br>3- the logged in admin selected the add movie option.<br>4-the logged in admin determined where to watch the movie . | yes    |          |

|   |                      |  |     |  |
|---|----------------------|--|-----|--|
| - Home<br>- logging in the system                           | Updating the profile | 1-the home page has been shown.<br>2- an admin was logged in the system successfully.<br>3- the logged in admin selected the myprofile option.   | yes |  |
| - Home<br>- logging in the system                           | Logging out          | 1-the home page has been shown.<br>2- an admin was logged in the system successfully.<br>3- the logged in admin selected the logout icon .   | yes |  |
| - Home<br>- logging in the system                           | Viewing admin movies | 1-the home page has been shown.<br>2- an admin was logged in the system successfully.<br>3- the logged in admin selected the myMovies option.  | yes |  |
| - Home<br>- logging in the system<br>- Viewing admin movies | Deleting a movie     | 1-the home page has been shown.<br>2- an admin was logged in the system successfully.<br>3- the logged in admin selected the myMovies option.<br>4- the logged in admin selected the delete option on a movie. | yes |  |
| - Home<br>- logging in the system<br>- Viewing admin movies | Updating a movie     | 1-the home page has been shown.<br>2- an admin was logged in the system successfully.<br>3- the logged in admin selected the myMovies option.<br>4- the logged in admin selected the update option on a movie. | yes |  |
| - Home<br>- logging in the system                           | Viewing the reviews  | 1-the home page has been shown.  |     |  |

|  |                                      |  |     |  |
|--|--------------------------------------|--|-----|--|
| - Viewing admin movies                                   |                                      | 2- an admin was logged in the system successfully.<br>3- the logged in admin selected the myMovies option.<br>4- the logged in admin selected the view reviews option on a movie.                                | yes |  |
| - Home   | Signing up in the system             | 1- the home page has been shown.<br>2- an admin was signed up in the system successfully.  | yes |  |
| - Home<br>- Signing up in the system                     | Adding a movie                       | 1-the home page has been shown.<br>2- an admin was signed up in the system successfully.<br>3- the signed up admin selected the add movie option.  | yes |  |
| - Home<br>- Signing up in the system<br>- Adding a movie | Determining where to watch the movie | 1-the home page has been shown.<br>2- an admin was signed up in the system successfully.<br>3- the signed up admin selected the add movie option.<br>4-the signed up admin determined where to watch the movie . | yes |  |
| - Home<br>- Signing up in the system                     | Viewing the profile                  | 1-the home page has been shown.<br>2- an admin was signed up in the system successfully.<br>3- the signed up admin selected the myprofile option.  | yes |  |
| - Home<br>- Signing up in the system                     | Logging out                          | 1-the home page has been shown.  |     |  |

|  |                      |   |     |  |
|--|----------------------|---|-----|--|
|  |                      | 2- an admin was signed up in the system successfully.<br>3- the signed up admin selected the logout icon .  | yes |  |
| - Home<br>- Signing up in the system                           | Viewing admin movies | 1-the home page has been shown.<br>2- an admin was signed up in the system successfully.<br>3- the signed up admin selected the myMovies option.  | yes |  |
| - Home<br>- Signing up in the system<br>- Viewing admin movies | Deleting a movie     | 1-the home page has been shown.<br>2- an admin was signed up in the system successfully.<br>3- the signed up admin selected the myMovies option.<br>4- the signed up admin selected the delete option on a movie. | yes |  |
| - Home<br>- Signing up in the system<br>- Viewing admin movies | Updating a movie     | 1-the home page has been shown.<br>2- an admin was signed up in the system successfully.<br>3- the signed up admin selected the myMovies option.<br>4- the signed up admin selected the update option on a movie. | yes |  |
| - Home<br>- Signing up in the system<br>- Viewing admin movies | Viewing the reviews  | 1-the home page has been shown.<br>2- an admin was signed up in the system successfully.<br>3- the signed up admin selected the myMovies option.  | yes |  |

|   |                         |  |     |  |
|---|-------------------------|--|-----|--|
|   |                         | 4- the signed up admin selected the view reviews option on a movie.  |     |  |
| - Home  | Viewing all the movies  | 1-the home page has been shown.<br>2- all the movies view to the entered guest.  | yes |  |
| - Home<br>- Viewing all the movies                          | Searching about a movie | 1-the home page has been shown.<br>2- all the movies view to the entered guest.<br>3- the entered guest search about a movie .   | yes |  |
| - Home<br>- Viewing all the movies                          | Viewing admin profile   | 1-the home page has been shown.<br>2- all the movies view to the entered guest.<br>3- the entered guest select adminInfo option .  | yes |  |
| - Home<br>- Viewing all the movies                          | Viewing the reviews     | 1-the home page has been shown.<br>2- all the movies view to the entered guest.<br>3- the entered guest select view reviews option .   | yes |  |
| - Home<br>- Viewing all the movies<br>- Viewing the reviews | Posting a review        | 1-the home page has been shown.<br>2- all the movies view to the entered guest.<br>3- the entered guest select view reviews option .<br>4- the entered guest post a review . | yes |  |

Table 45:integration testing

### 6.3 User Acceptance Testing

In user Acceptance Testing the end-users who are familiar with the business requirements validate the software and check if the system fulfils business requirements.<sup>1</sup>

We chose a team from the target audience composed of 7 end users who interpret the requirements according to their domain knowledge. We asked them 6 Questions related to the system we made. We included the demographic of the participants and we displayed the results in a meaningful way.

#### 6.3.1 Demographics of participants

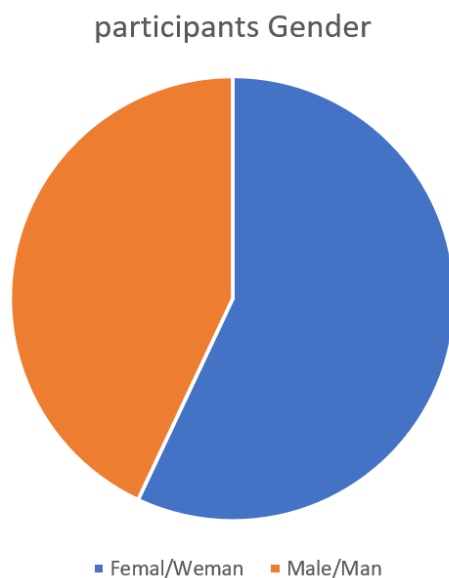


Figure 43: Participants gender demographics

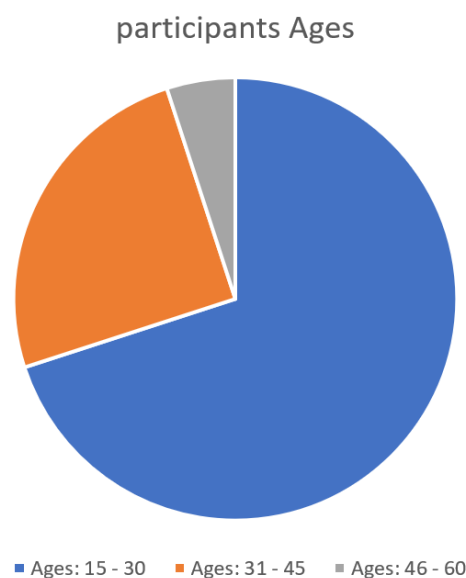


Figure 44: Participants age demographics

<sup>1</sup> "What is User Acceptance Testing (UAT): A Complete Guide." Accessed May 17, 2022.  
<https://www.softwaretestinghelp.com/what-is-user-acceptance-testing-uat/>.

### 6.3.2 Questionnaire

|   | <b>Never/Almost<br/>Never</b> | <b>About half<br/>the time</b> | <b>Most of the<br/>time</b> | <b>Always/almost<br/>Always</b> |
|---|-------------------------------|--------------------------------|-----------------------------|---------------------------------|
| <i>How often is the interface user-friendly?</i>                          |                               | 1 (14%)                        | 5 (71%)                     | 1 (14%)                         |
| <i>How often do you think the content provided updated?</i>               |                               | 1 (14%)                        | 3 (42%)                     | 3 (42%)                         |
| <i>How often do you think the output is presented in a useful format?</i> |                               |                                | 3 (42%)                     | 4 (57%)                         |
| <i>How often do you think the system is responsive?</i>                   | 1 (14%)                       | 2 (29%)                        | 4 (57%)                     |                                 |
| <i>How often does the system work according to the specifications?</i>    |                               |                                | 2 (29%)                     | 5 (71%)                         |
| <i>Overall, are you satisfied with the system?</i>                        |                               |                                | 3 (42%)                     | 4 (57%)                         |

Table 46: Questionnaire



## 7 Chapter 7: Conclusion and Future Work

### 7.1 Conclusion

This document represents our project (Moview website), starting from the introduction chapter which described our problem and the solution that we obtained, also it described our product (Moview) starting from the vision to the scope . After that we started a domain analysis chapter which described some terminologies and gave general information about the domain and the potential users who might buy or use this website. also, it clarified the strengths and weaknesses of existing similar websites.

The domain analysis chapter followed by the requirements engineering chapter which described the system users and gave general characteristics of these users.also, it showed how the system interacts with actors using the use case diagram , and finally clearidied the system's features in the product backlog .and this chapter followed by System Design chapter which we designed models of our system starting from designing the system architecture to designing the interfaces .

Once we had a clear envisage of moview features , we started the Implementation chapter in which we transformed Moview's features into a real website. After that we started the Testing chapter which described the website after testing .

Finally we wrote a conclusion of what we did in this project, also we described the future work that we want to implement on this website .

### 7.2 Future Work

Moview is an English website designed mainly to help people avoid wasting time and money on bad movies . Moview website in this stage does not provide any other languages .also, it doesn't provide some important features like Trailers , Rating and cast list.

So as a future work , Moview will provide other languages like Arabic language .also , it will enable admins to add a trailer while adding a movie , and it will enable guests to rate the movies and the reviews ,so that will help people to know how good and popular the movie is .Also, it will enable admins to write the information about the cast whom acted in the movie .

## 8 References

Any references in the report should be included in this section. Always give complete citations for references cited in your report. A proper reference involves two components: the citation in the text and the complete bibliographic entry in the References section. It is recommended to generate the references automatically (use “References” menu in Word, “Insert Citation”), or external plugin like Zotero. Use the Institute of Electrical and Electronics Engineers (IEEE) style for referencing. For more information see:

<http://www.lib.murdoch.edu.au/find/citation/ieee.html>

[1] “NetBeans,” wikipedia. [Online]. Available: <https://en.wikipedia.org/wiki/NetBeans>. [Accessed: 15-5-2022].

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## Appendix:

### Interviews :

The interview is gathering facts, options and speculations. Also, observing body language and emotions. In this project we met two people and asked them some questions that will be helpful for us to elicit the information from them.

| Interview outline   |   |
|---|---|
| <b>Interviewee :</b> Sarah alkhurayyif  | <b>Interviewer:</b> Rahaf Almoqbel  |
| <b>Location / Medium:</b><br>KSU,CCIS , a room in the library .   | <b>Appointment Date:</b> 9/3/2022<br><b>Start Time:</b> 12:10 PM<br><b>End Time:</b> 12:41PM  |
| <b>Objectives:</b> <ul style="list-style-type: none"> <li>Collect data about system functions that are desired to the users .</li> <li>Know what the users like and dislike in a movie's websites.</li> <li>Know what the users want by interviewing them.</li> </ul> | <b>Reminders:</b> <ul style="list-style-type: none"> <li>The interviewee is interested in movies.</li> <li>The interviewee's age is around 16-45.</li> </ul>      |
| <b>Agenda:</b> <ul style="list-style-type: none"> <li>Introduction</li> <li>Background on project</li> <li>Overview of interview</li> <li>Topics to be covered</li> <li>Interview questions</li> <li>Closing</li> </ul>   | <b>Approximate Time:</b> <ul style="list-style-type: none"> <li>3 minutes</li> <li>4 minutes</li> <li>2 minutes</li> <li>18 minutes</li> <li>2 minutes</li> </ul> |
| <b>General Observations:</b> the interviewee seemed happy and satisfied with her answers .  |   |
| <b>Unresolved Issues ,Topics Not Covered:</b> -   |   |
| <b>Interviewee:</b> Sarah alkhurayyif   | <b>Date:</b> 9/3/2022   |
| <b>Questions:</b>   | <b>Notes:</b>   |

|   |   |
|---|---|
| <p><b>Question 1:</b> Have you ever used a website or app to search for a movie to watch ? If yes, what are the things that you like or don't like about it ?</p>                   | <p><b>Answer:</b><br/>Yes,I used IMDb.<br/>this website views details on each movie (the story , trailer,...etc) and the reviews about it ,these are the things that I like it in this website .The thing that I don't like it is that website views the events and awards and many other things and these make the website complex ,if it's specific for movies reviews only it could be better.<br/><b>Observations:</b> She prefers the website specific for movie reviews only.</p> |
| <p><b>Question 2:</b> What are the difficulties that you face when you want to watch a movie ?</p>  | <p><b>Answer:</b><br/>I take time to search about the movie to decide if it is good or not .<br/><b>Observations:</b> she seemed annoyed because it wastes a lot of time to search for a good movie .</p>   |
| <p><b>Question 3:</b> When you decide to watch a movie , how do you know if the movie is good and worth watching?</p>   | <p><b>Answer:</b><br/>Sometimes I search on twitter about this movie and read people's opinions about it.<br/><b>Observations:</b> she prefers to read people's opinions about movies to decide if it's worth it.</p>   |
| <p><b>Question 4:</b> in a website that views movie reviews , do you think it will help you to choose a good movie ? why?</p>   | <p><b>Answer:</b><br/>Yes , because people may write positive or negative reviews and that makes me decide if the movie is good or not.<br/><b>Observations:</b> she thinks that positive and negative reviews help her to decide if it's good or not.</p>  |
| <p><b>Question 5:</b> On a movie review website ,would you like to be able to know where you can watch a movie ? (cinema or streaming websites like Netflix ....etc.). and why?</p> | <p><b>Answer:</b><br/>Yes , because I don't want to waste my time to search where I can watch the movie.<br/><b>Observations:</b> she seemed excited for this and she thinks that will help her to save her time.</p>   |

Table 47:interview1

| Interview outline   |  |
|---|--|
| <b>Interviewee :</b> reem alyousef  | <b>Interviewer:</b> Rahaf Almoqbel   |
| <b>Location / Medium:</b><br>zoom meeting.  | <b>Appointment Date:</b> 11/3/2022<br><b>Start Time:</b> 9:00 PM<br><b>End Time:</b> 9:28PM  |
| <b>Objectives:</b> <ul style="list-style-type: none"> <li>- Collect data about system functions that are desired by the users .</li> <li>- Know what the users like and dislike in a movie's websites.</li> <li>- Know what the users want by interviewing them.</li> </ul> | <b>Reminders:</b> <ul style="list-style-type: none"> <li>- The interviewee is interested in movies.</li> <li>- The interviewee's age is around 16-45.</li> </ul>   |
| <b>Agenda:</b> <ul style="list-style-type: none"> <li>- Introduction</li> <li>- Background on project</li> <li>- Overview of interview</li> <li>- Topics to be covered</li> <li>- Interview questions</li> <li>- Closing</li> </ul>   | <b>Approximate Time:</b> <ul style="list-style-type: none"> <li>3 minutes</li> <li>4 minutes</li> <li>2 minutes</li> <li>15 minutes</li> <li>2 minutes</li> </ul>  |
| <b>General Observations:</b> The interviewee seemed satisfied with her answers .Also, she hoped that her answers will help us to gather the right data that will help to build the system .   |  |
| <b>Unresolved Issues ,Topics Not Covered:</b> -   |  |
| <b>Interviewee:</b> reem alyousef   | <b>Date:</b> 11/3/2022   |
| <b>Questions:</b>   | <b>Notes:</b>  |
| <b>Question 1:</b> Have you ever used a website or app to search for a movie to watch ? If yes, what are the things that you like or don't like about it ?  | <b>Answer:</b><br>Yes, the only thing that I don't like is the organization of the website , it is not clear.I prefer the simple design .<br><b>Observations:</b> she prefers the simple and clear design for the movie reviews websites . |

|  |  |
|--|--|
| <b>Question 2:</b> What are the difficulties that you face when you want to watch a movie ?  | <b>Answer:</b><br>sometimes I don't know where the movie shows and that waste my time<br><b>Observations:</b> she seemed upset because searching about where the movie shows wastes her time.  |
| <b>Question 3:</b> When you decide to watch a movie , how do you know if the movie is good and worth watching?   | <b>Answer:</b><br>I search on movie reviews websites about the movie that I want to watch and I read the reviews about it.<br><b>Observations:</b> she prefers to read movie reviews on movie reviews websites to know if the movie is worth or not. |
| <b>Question 4:</b> In a website that views movie reviews , do you think it will help you to choose a good movie ? why?   | <b>Answer:</b><br>Yes, I think it will be helpful because people's reviews clarify for me if the movie is good or not.<br><b>Observations:</b> She thinks that people's reviews help her to choose a good movie.                                     |
| <b>Question 5:</b> On a movie review website ,would you like to be able to know where you can watch a movie ? (cinema or streaming websites like Netflix ....etc.). and why? | <b>Answer:</b><br>Yes ,Of course yes .because that will save my time .<br><b>Observations:</b> she seemed happy and excited for this and she thinks that will help her to save her time.   |

Table 48

### Summary :

According to the interviews , we collected some answers which will help us to know users' needs. We can say that both of them used movie reviews websites but there are things they don't like on these websites. Also, they face some difficulties that waste their time while using these websites. They agree that people's opinions help them to decide if the movie is worth it or not. Also, they think that websites that show the reviews of movies will help them to choose a good movie. After that we asked them if they want to know where they can watch the movies (cinema or streaming websites like Netflix ....etc.) and they agreed that they want to know because this will help them to save their time .

## Questionnaire :

Questionnaire is a list of questions about the project requirements.  
In this we prepared 5 questions to ask our sample.

1- Have you ever watched a movie that is not worth watching?

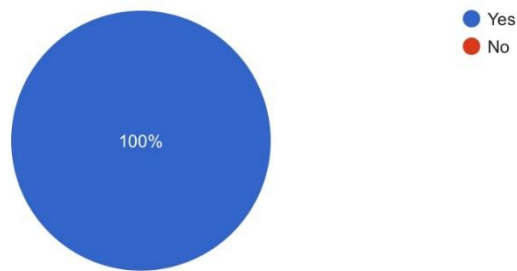


Figure 45

2- How many movies do you watch in a month ?

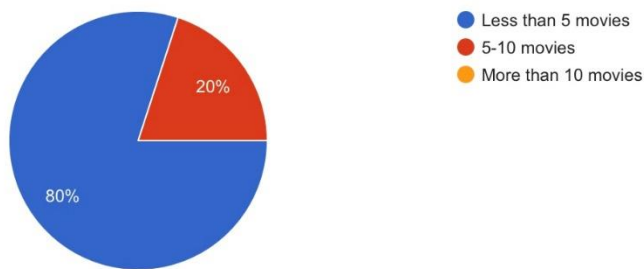


Figure 46

3- Where do you prefer to watch a movie?

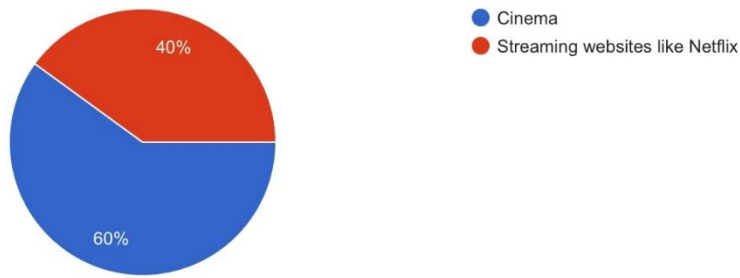


Figure 47

4- In websites that view movie reviews, Do you like to know where you can watch each movie ?

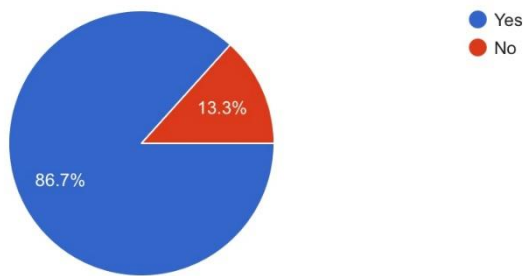


Figure 48

5- From where do you get movie recommendations?

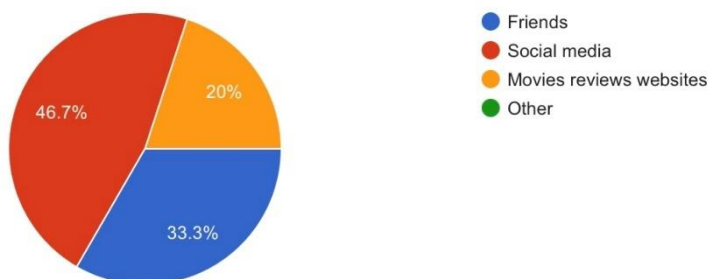


Figure 49



| Have you ever watched a movie that is not worth watching? | How many movies do you watch in a month ? | Where do you prefer to watch a movie? | On websites that view movie reviews,Do you like to know where you can watch each movie ? | From where do you get movie recommendations? |
|---|---|---------------------------------------|--|--|
| Yes   | Less than 5 movies                        | Cinema                                | Yes  | Social media                                 |
| Yes   | Less than 5 movies                        | Streaming websites like Netflix       | No   | Friends                                      |
| Yes   | 5-10 movies                               | Cinema                                | Yes  | Social media                                 |
| Yes   | Less than 5 movies                        | Cinema                                | Yes  | Social media                                 |
| Yes   | Less than 5 movies                        | Streaming websites like Netflix       | No   | Friends                                      |
| Yes   | Less than 5 movies                        | Streaming websites like Netflix       | Yes  | Social media                                 |
| Yes   | Less than 5 movies                        | Streaming websites like Netflix       | Yes  | Social media                                 |
| Yes   | Less than 5 movies                        | Cinema                                | Yes  | Movies reviews websites                      |
| Yes   | Less than 5 movies                        | Cinema                                | Yes  | Movies reviews websites                      |
| Yes   | Less than 5 movies                        | Cinema                                | Yes  | Friends                                      |
| Yes   | Less than 5 movies                        | Cinema                                | Yes  | Movies reviews websites                      |
| Yes   | Less than 5 movies                        | Cinema                                | Yes  | Friends                                      |
| Yes   | 5-10 movies                               | Streaming websites like Netflix       | Yes  | Social media                                 |
| Yes   | 5-10 movies                               | Streaming websites like Netflix       | Yes  | Social media                                 |
| Yes   | Less than 5 movies                        | Cinema                                | Yes  | Friends                                      |

Table 49

## Summary:

The result of the questionnaire shows that all of the people who take the questionnaire had been watch a movie that not worth .Also , 80% of the people watch less than 5 movies in a month and 20% of the people watch from 5 to 10 movies in a month and no one watch more than 10 movies, so this may indicates that a lot of them are busy .We noticed that 60% of the people prefer to watch a movie in cinema and 40% prefer to watch a movie in streaming websites .Also, The results showed that 86.7% of the people want to know where they can watch each movie ,so here we can conclude that this will help them a lot to save their time . We also noticed that 46% of the people get recommendations of the movies from social media and 33.3% get from their friends and 20% get from movie reviews websites so it illustrated here that people take recommendations from many resources not from one resource.

## Questionnaire Questions in user Acceptance Testing

- *How often is the interface user-friendly?*
- *How often do you think the content provided updated?*
- *How often do you think the output is presented in a useful format?*
- *How often do you think the system is responsive?*
- *How often does the system work according to the specifications?*
- *Overall, are you satisfied with the system?*