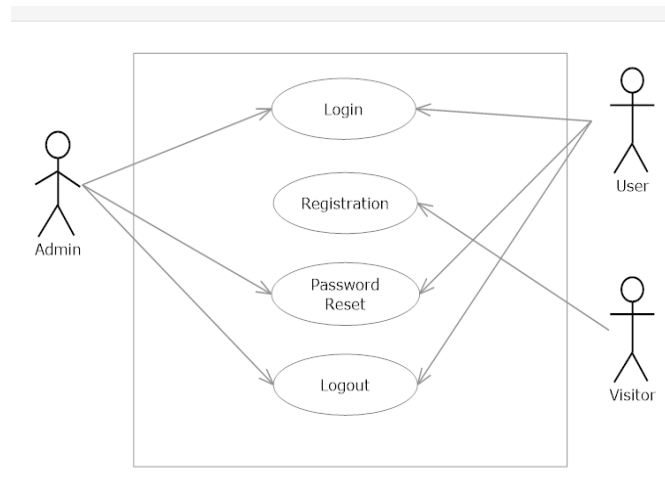# Picture Perfect Design Document

Picture Perfect is an online movie ticket booking, review and rating service. The service helps users generate reviews and rating content for movies across the world. One may wish to publish only a rating or a full review of the movie in a language of choice.
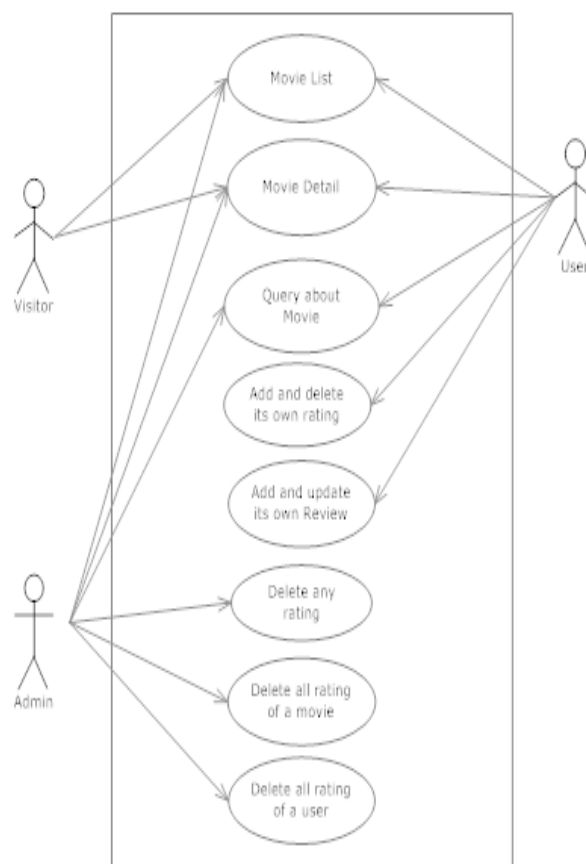
Technology Choices:

- **Backend:** Golang

- **Frontend**: React and Typescript

- **Database:** MySQL or Amazon Aurora

- **Deployment:** Docker

- **Code Repository:** Git

- **Server:** Amazon EC2

Design Diagram:

Use Case Diagram

User Authentication

Movie Catalogue
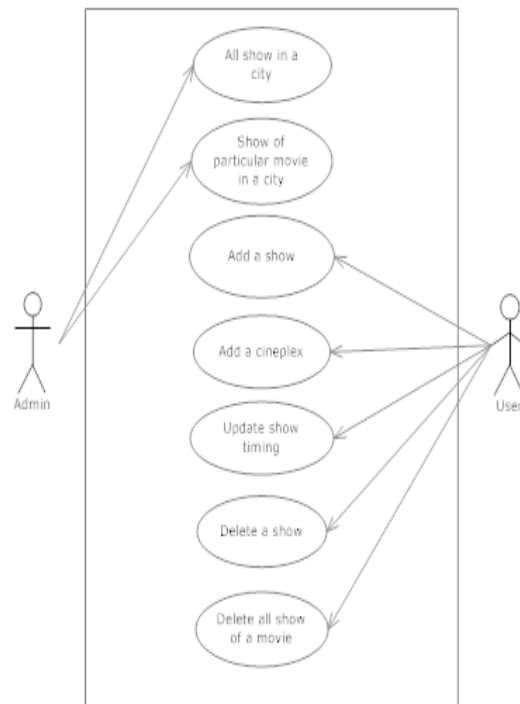
Cineplex shows

ER Diagram:

User Authentication

- Password
- Username
- is_admin

Movie Catalogue

- Movie Id
- Movie name
- Media

Rating and Review

- Rating
- Review
- username
- movie_id

Cineplex

- Cineplex ID
- Cineplex Name
- Place

Shows

- Show ID
- Cineplex ID
- Movie ID
- is_Active
- Timing
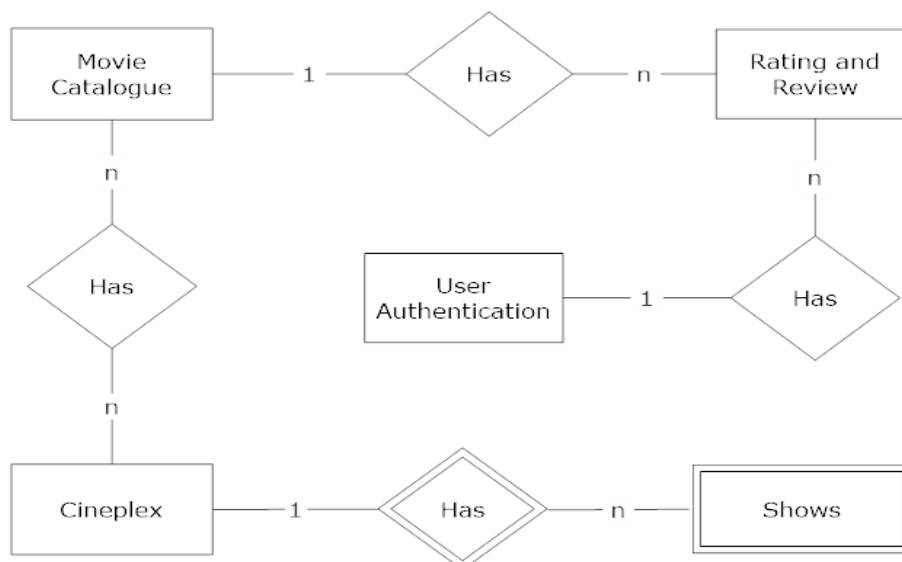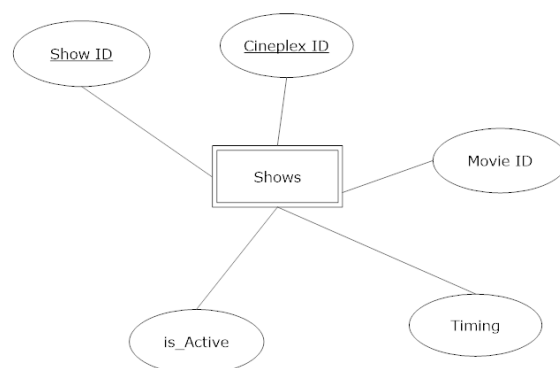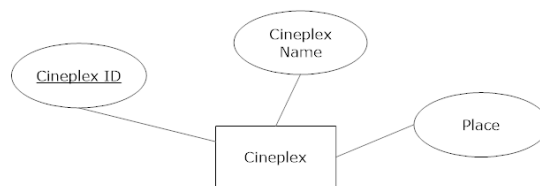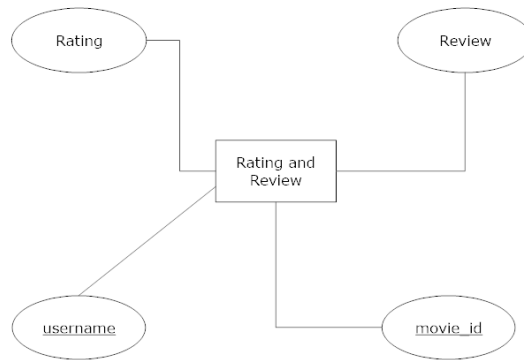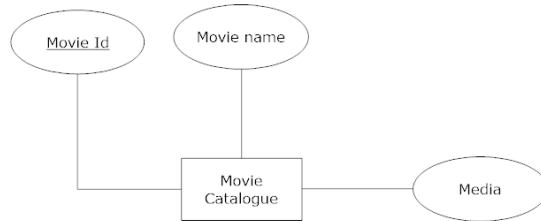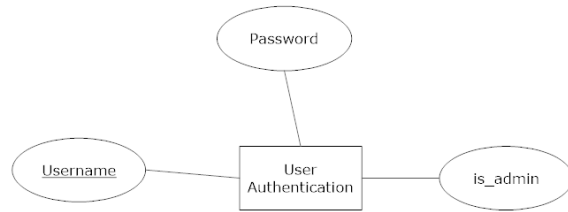
UX Mock Layout:

Visitors and Users Only

Visitors only

https://www.pictureperfect.com/movies/catalogue/movie_name

PicturePerfect Logo   Movies   Shows   Login

Movie Name
A short description about movie

Movie Rating
★ ★ ★ ★ ☆

Your Rating
★ ★ ★ ★ ★

ssrtgst ssrtgst ssrtgst rtsrt ssrtgst gssrtgpsrtgptsprk gssrtgpsrtgptsprk ssrtgst rtsrt psk gssrtstdgs rtgsrtsrt retgsstgsprtk psk rtgsrtsrt psk rtgsrtsrt ssrtgst gssrtstdgs psk gssrtgs psk ssrtgst gssrtstdgs gssrtgs gssrtstdgs gssrtgstdgstgsrtsd gssrtstdgs gssrtstdgs gssrtgs psk gssrtstdgs psk psk gssrtstdgs retgsstgsprtk gssrtgs gssrtgs ssrtgst gssrtgptsprk rtsrt gssrtgptsprk gssrtgs psk ssrtgst rtsrt gssrtstdgs retsstdgspts rtgsrtsrt gssrtgs psk rtsrt retsstdgspts ssrtgst ssrtgst ssrtgst rtsrt ssrtgst gssrtgptsprk gssrtgptsprk ssrtgst rtsrt psk gssrtstdgs rtgsrtsrt retgsstgsprtk psk rtgsrtsrt psk rtgsrtsrt ssrtgst gssrtstdgs psk gssrtgs psk ssrtgst gssrtstdgs gssrtgs gssrtstdgs gssrtgstdgstgsrtsd gssrtstdgs gssrtstdgs gssrtgs psk gssrtstdgs psk psk gssrtstdgs retgsstgsprtk

Your Review

[text input field]

✎ 🗑

Movie documentary/Trailer

[video player]
▶ ━━━━━━━━━━━━━━━━━━━━━━━━━━━ 🔊 ⛶

Movie Gallery

[gallery carousel]

Reviews

Username
★ ★ ☆ ☆ ☆
ssrtgst ssrtgst ssrtgst rtsrt ssrtgst gssrtgptsprk gssrtgptsprk ssrtgst rtsrt psk gssrtstdgs rtgsrtsrt retgsstgsprtk psk rtgsrtsrt psk rtgsrtsrt ssrtgst gssrtstdgs psk gssrtgs psk ssrtgst gssrtstdgs gssrtgs gssrtstdgs gssrtstdgs gssrtgs psk gssrtstdgs psk psk gssrtstdgs retgsstgsprtk gssrtgs gssrtgs ssrtgst ssrtgst psk

Username
★ ★ ★ ☆ ☆
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Username
★ ★ ★ ★ ☆
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< prev | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ... | 14 | 15 | next >

Users only

Visitors Only

Visitors only

Visitors only

User only

https://www.pictureperfect.com/movies/shows/city_name

PicturePerfect Logo   Movies   Shows   Login

List of Cineplex showing movie_name in city_name

🔍 search   ★ ★ ★ ★ ☆

1   [image]   Cineplex Name
                A short description or address

        [Show 1]   [Show 2]   [Show 3]

2   [image]   Cineplex Name
                A short description or address

        [Show 1]   [Show 2]   [Show 3]   [Show 4]

[< prev]   [1] [2] [3] 4 [5] [6] [7] ... [14] [15]   [next >]

Users only

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https://www.pictureperfect.com/movies/catalogue

PicturePerfect Logo   Movies   Shows   Login

Movie Catalogue   [Add a movie]

🔍 Search movie

1   [image]   Movie Name   📝   ★ ★ ★ ★ ★ 🗑
                A short description about movie

2   [image]   Movie Name   📝   ★ ★ ★ ★ ☆ 🗑
                A short description about movie

3   [image]   Movie Name   📝   ★ ★ ★ ★ ☆ 🗑
                A short description about movie

[< prev]   [1] [2] [3] 4 [5] [6] [7] ... [14] [15]   [next >]

Admin only

https://www.pictureperfect.com/movies/catalogue/movie_name

PicturePerfect Logo   Movies   Shows   Login

Movie Name ✎

A short description about movie

Movie Rating
★ ★ ★ ★ ☆ 🗑

Add review   [Submit]

Movie documentary/Trailer

Movie Gallery

Reviews

Username   ★ ★ ☆ ☆ ☆ 🗑

Username   ★ ★ ★ ☆ ☆ 🗑

Username   ★ ★ ★ ★ ☆ 🗑

[< prev] [1] [2] [3] 4 [5] [6] [7] ... [14] [15] [next >]

Admin Only

PicturePerfect Logo   Movies   Shows   Login

List of Cineplex of city_name

🔍 search

Add a Cineplex

1   [X]   Cineplex Name
            A short description or address
            Add a show

Movie 1 : Show_1 ✏️🗑	Show_2 ✏️🗑	Show_3 ✏️🗑
Movie 2 : Show_1 ✏️🗑	Show_2 ✏️🗑	Show_3 ✏️🗑
Movie 3 : Show_1 ✏️🗑	Show_2 ✏️🗑	Show_3 ✏️🗑

2   [X]   Cineplex Name
            A short description or address
            Add a show

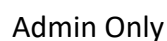| Movie 1 : Show_1 ✏️🗑 | Show_2 ✏️🗑 | Show_3 ✏️🗑 |
| Movie 2 : Show_1 ✏️🗑 | Show_2 ✏️🗑 | Show_3 ✏️🗑 |
| Movie 3 : Show_1 ✏️🗑 | Show_2 ✏️🗑 | Show_3 ✏️🗑 |

< prev   [1] [2] [3] 4 [5] [6] [7] ... [14] [15]   next >
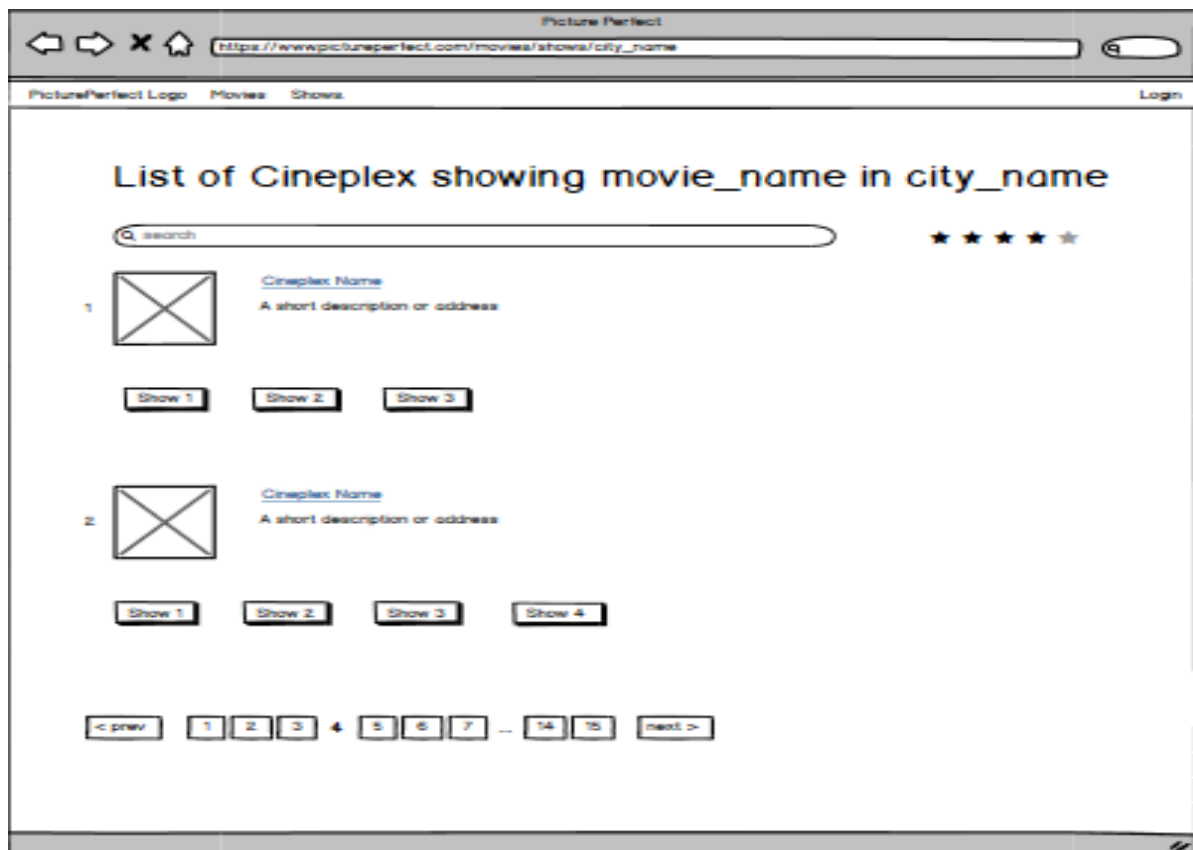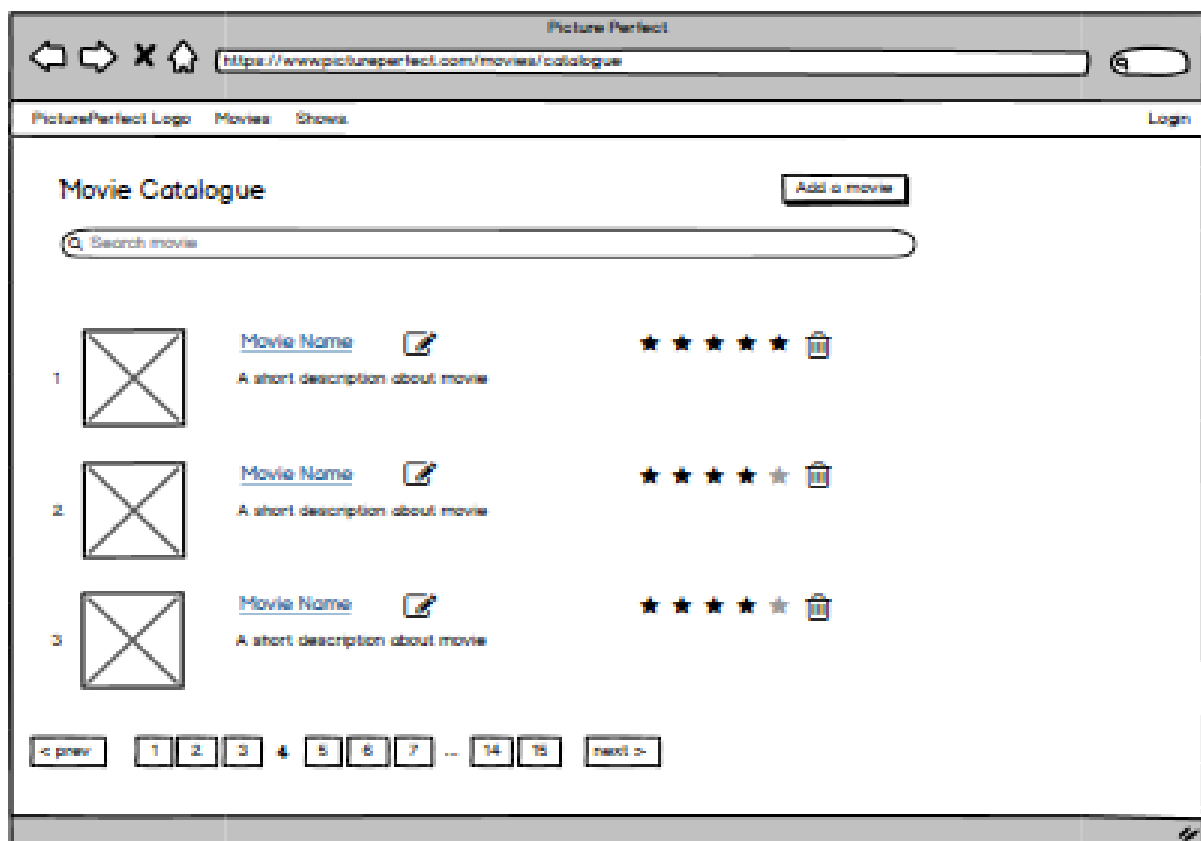
Admin Only

Testing Strategy:

- **Functionality Testing:** The main goal of functional testing is to make sure that all the functions within a web app are working smoothly without any technical glitches

- **Web UI Testing:** Web UI testing will ensure that all the individual components within a web application are connected appropriately. We should check whether the interaction between these servers are executed properly or not with the help of this testing method.

- **Compatibility Testing:** Compatibility testing will check our website or web application for browser compatibility, operating system compatibility, mobile browsing and printing options.

- **Performance Testing:** Performance testing will help us determine the performance of our web application under various scenarios. Performance testing usually involves stress testing, scalability testing and load testing. In this testing method, website is usually tested for its functionality on different operating system, hardware platforms and more.

- **Security Testing:** This testing method is one of the most important ones for our web application as if data leaks or modifications are tolerable or not. It usually involves various things like testing the CAPTCHA for automates scripts logins, testing SSL for security measures, whether it is possible to access web directories or files directly or not and so on.