**Lab 3: Software Engineering & Testing**

**Functional:**

Buying Feature - Shopping

* Allows users to add movie tickets with booking time and desired seat into shopping cart.
* Shopping cart leads to a checkout screen which will prompt banking details.

E-Ticket Signature - Ticketing

* After a purchase is successful an E-Ticket signature will be created. That could theoretically be used to print tickets at the cinema in person.
* The signature is a randomly generated string using JavaScript.
* Printable Ticket

Recommendation System - Recommendations

* Once clicked on a desired movie the user will be put into the times and seats screen this will also contain a section that recommends movies that are of the same genre using JSON.
* The user will be able to navigate to the movies in this selection, this allows them to purchase tickets for the recommendations.

Movie Browsing - Searching

* The movie browsing page displays movies available for purchase through JSON database. The database can also be queried using search functions.
* Each movie will lead to its own page that contains the price and times that are available, the user will also get to choose their desired seat.

Reviews – Movie Reviews

* Users can leave written reviews on movies they have watched.
* Reviews can include a rating system (e.g., 1-5 stars).
* Displayed reviews will be fetched from a database using JSON.

Profiles Reviews - User Rating of Reviews

* Each user profile will have a review system, for there reviews like a thumbs up and thumbs down on the reviews.

Profiles Friending - Friending

* Users will be able to friend each other and look at each other’s profiles.

**Non-Functional:**

Age restrictions

* Users must verify their age before purchasing tickets for age-restricted movies.

Dates

* Showtimes will be displayed in chronological order.
* The system will prevent booking conflicts (e.g., double-booking the same seat).

Prevent Inappropriate Content on Reviews

* User-generated content, such as reviews, will be monitored for inappropriate language.
* Automated filtering and moderation tools will be used to detect offensive words.

Reviews

* The highest liked reviews will show up first.

Friending

* The newest friended profile appears first in the friends list.

USE CASE

**CASE 1: Customer Knows What to Watch:**

Book Movie:

. click on movie page

. click booking option

. select appropriate time

. login to allow you to book

. select sitting

. continue to payment screen

Display Prices

. shows the user the cost of the ticket

. display option to enter payment details

Pay

. Input Payment Information

. Confirm payment transaction

. Pay for the movie

Don’t Pay

. Asked to Input Payment Details

. Click decline

. return to movie page

**CASE 2: Customer Can’t Decide What To Watch**

Find A Movie:

. go to the recommended movies page

. filter by the type of movie you want e.g. Genre: action

. choose from recommended movies

. click on movie

Book Movie:

. click booking option

. select appropriate time

. login to allow you to book

. select sitting

. continue to payment screen

Display Prices

. shows the user the cost of the ticket

. display option to enter payment details

Pay

. Input Payment Information

. Confirm payment transaction

. Pay for the movie

Don’t Pay

. Asked to Input Payment Details

. Click decline

**CASE 3: Reviewer**

Login

. Select register/login

. Input login details

. confirm information

Pick A Movie

. Go to a movie page you have previously watched

. click on the movie page

. click on review button

Review Movie

. Fill out description on your thoughts on the Movie

. Select score of enjoyment

. Confirm you want to finalize and publish review by clicking confirm

**CASE 4: Profile Creation**

Login

. Select register/login

. Input login details

. confirm information

Go to Profile

. Select profile option on the menu

. It will display the information given in login

Add Profile Picture

. Select add profile picture

. select from a limited number of images

. Click confirm to select it as your profile

. The image is displayed with the profile information

A diagram of a diagram

AI-generated content may be incorrect.