

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

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CASE 1: Customer:

Find A Movie:

- . go to the recommended movies page
- . filter by the type of movie you want e.g. Genre: action
- . click on movie

Book Movie:

- . select appropriate time
- . login to allow you to book
- . select sitting

Display Prices

- . shows you the cost of the ticket

Pay

- . Input Payment Information
- . Confirm you want to book the movie
- . Pay for the movie

Don't Pay

.Asked to Input

.Decline

