**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.