**Lab 3: Software Engineering & Testing**

**Functional:**

. Buying Feature e.g. 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

* 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.

. Recommendation System

* 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

* 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 chose their desired seat.

.Login

* An authentication page, where users can create accounts in order to purchase tickets and keep track of the tickets they have bought in the past.
* The user logins will be stored into a SQL database.

**Non-Functional:**

. Security against SQL injections: verify string inputs

. Accessibility e.g. Alt for images

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