# Software Design and Development

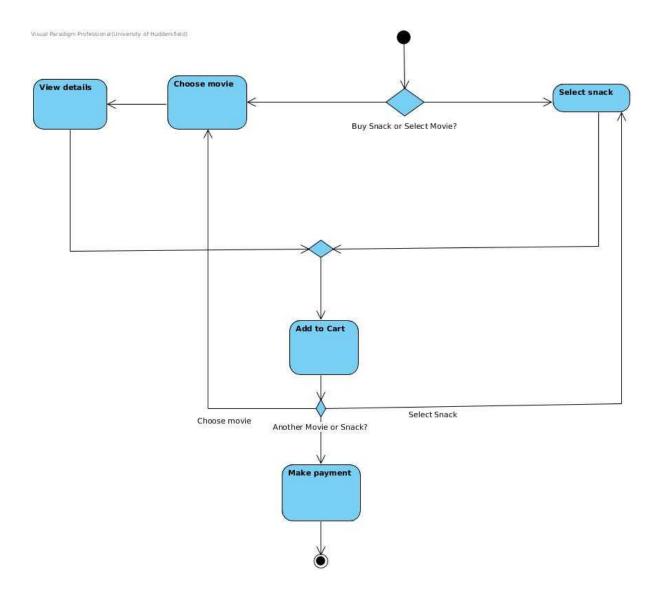
ASSIGNMENT REPORT 2019 I.KAMRAN U1857977

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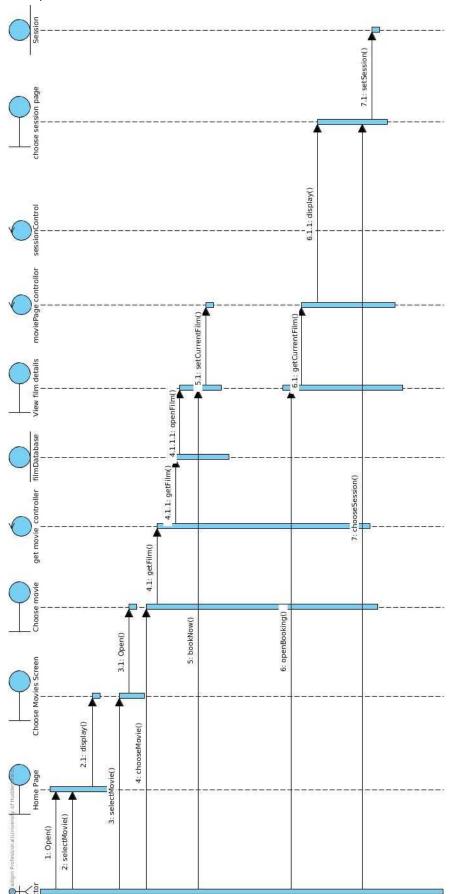
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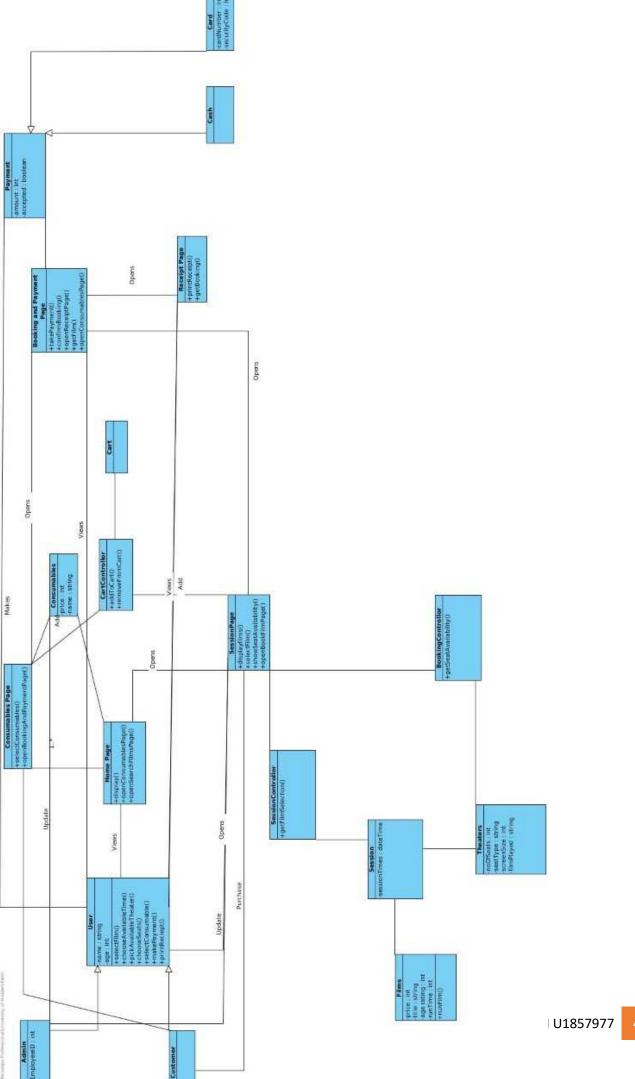
# Modelling

The design of my program consists of two major paths which meet together. One can either select snacks (consumables) first, and then proceed to select the session, or select the session first and then add the consumables to the cart after. This can be seen in my activity diagram.

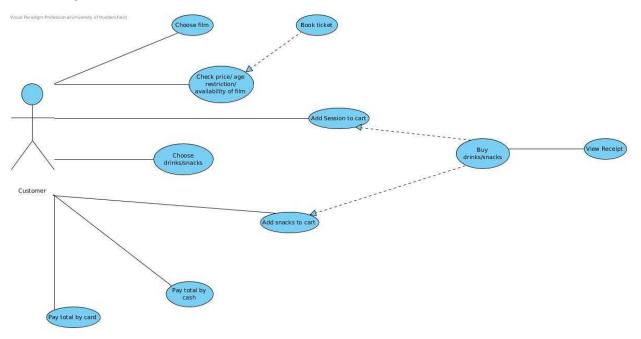


This sequence diagram illustrates the part of the program that allows you to select a session. The program uses a static method called 'setCurrentFilm' when the film is clicked. It then gets the relevant details and sessions using getCurrentFilm. When it has the current films, it searches the through the sessions by filmName to find the relevant ones, and adds them to an ArrayList to be printed for selection. I understand the methods could be clearer.





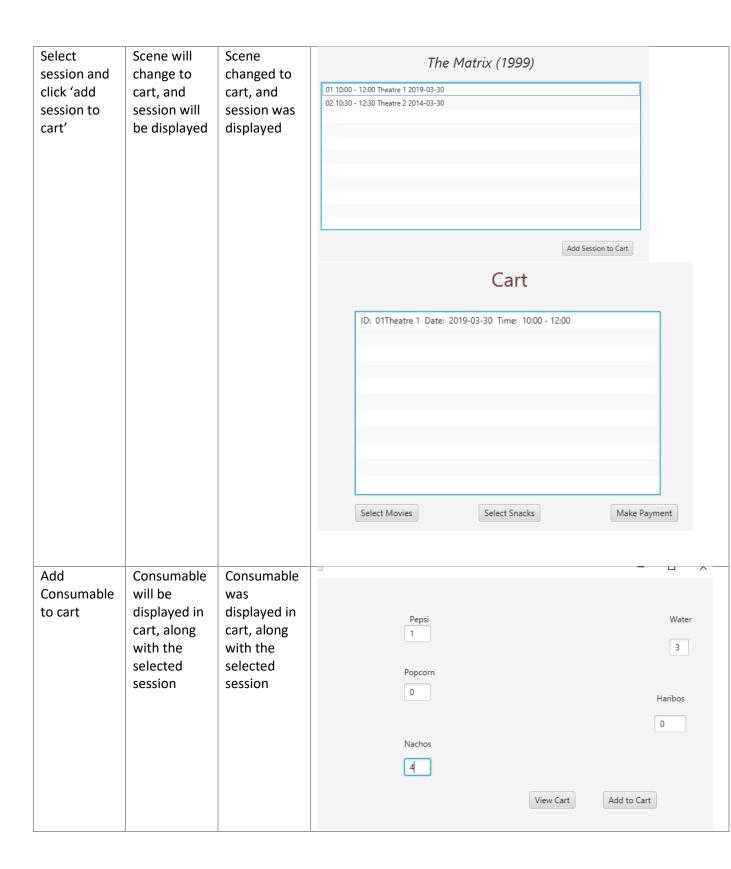
I accessed my ArrayLists such as filmDatabase and sessionDatabase through static methods in the main. This is not stated on my class diagram. However you can see that the Film and theatre classes interact together to make a session which is bookable.

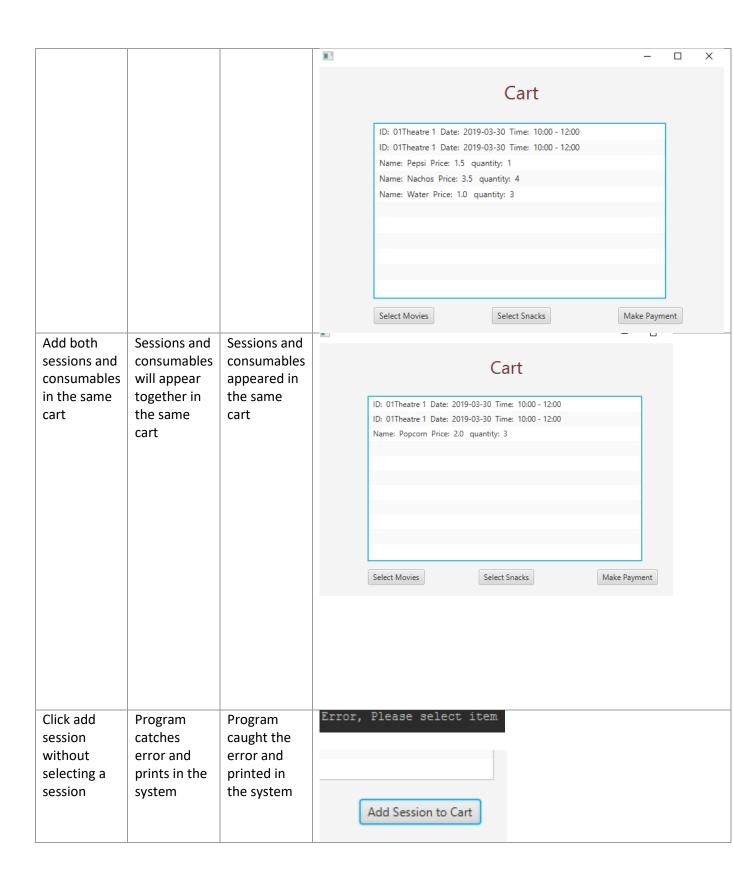


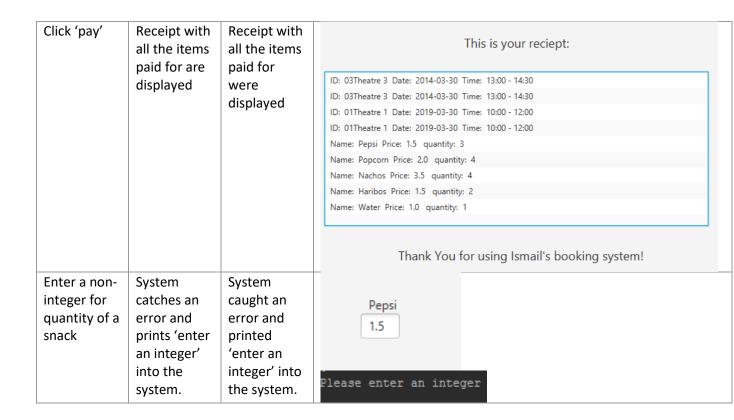
Functionalities of the program from the user's perpective^

# **Testing**

Test:	Expected Outcome:	Actual Outcome:	Screenshots:
Click Image on selection page	Film details page opens	Film details page opens	The Matrix (19  The Matrix (1999)  Label  A computer hacker learns from mysterious rebels about the true nature of his reslity and his role in the war against its controllers. Directors Lana Wachowski (as The Wachowski Brothers), Lilly Wachowski Writers: Lilly Wachowski (as The Wachowski Brothers), Lilly Wachowski (a. Stars: Keanu Reeves, Laurence Fishburne, Carrie-Anne Moss  Label  Label  Rook Now







### **Report Summary**

The program as a whole contains many classes which interact with each other through the main. In some cases I have to return an object from a static method, and then I have to return an arraylist and then another object and then finally set or get attributes. This did make my code very complex, however the benefit is that it protected my attributes from being changed easily.

My final project was slightly to my modelling as you can see, however I did not change some of the modelling to show the ambitiousness of my program had I had time.