Tutorial 08: Design and Implementation

Instructions:

Prepare the answers with a PowerPoint file. State your names and student ID on the file.

Q1. What are the principal aims of software configuration management?

Q2. Figure 1 shows a statechart diagram for modeling a movie ticket selling machine. Modify the diagram with the following new requirements.

The machine should allow customers to cancel the operation by pressing a cancel button. Then the system will return to the greeting screen in 5 seconds.

If the credit card is over credited, the machine should display a warning message and then return to the greeting screen after 5 seconds.
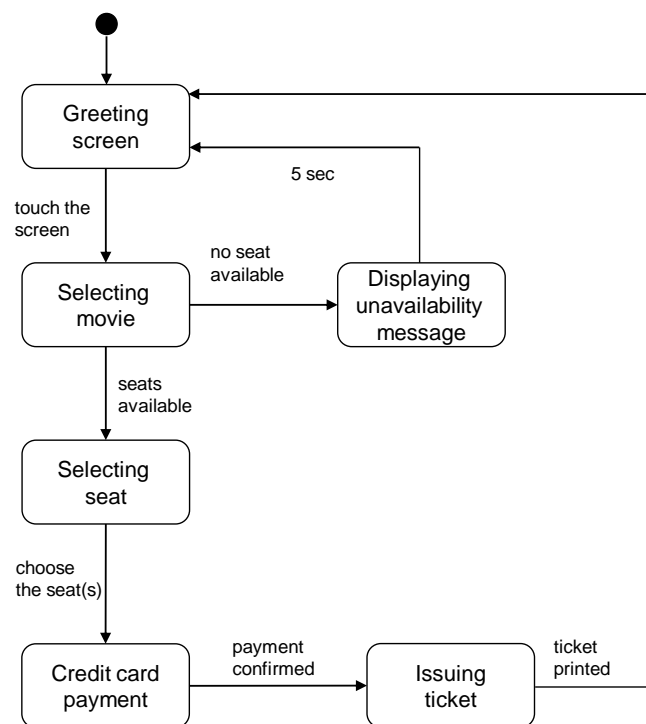

Figure 1

Q3. Jack is the founder of a startup company, specializing in telecommunication technology. The company has recently developed an initial version of a mobile app for instant messaging. Discuss whether Jack should distribute the initial version of the mobile app to the potential users in the form of freeware or open source.