

THE UNIVERSITY OF ZAMBIA
SCHOOL OF NATURAL SCIENCES
DEPARTMENT OF COMPUTER
SCIENCE



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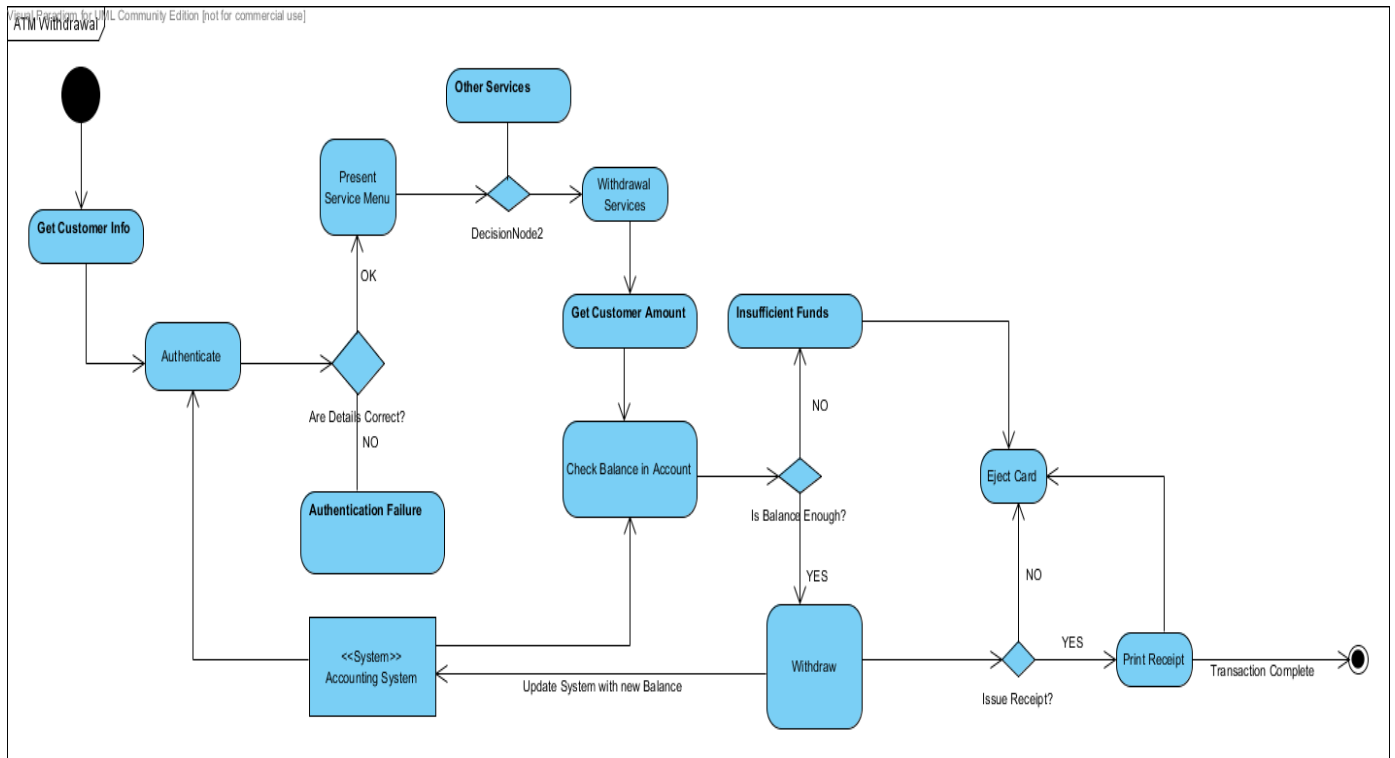
Course: CSC 4630 Assignment 4

Due Date: 14th June 2018

Question 5.7

Based on your experience with a bank ATM, draw an activity diagram that models the data processing involved when a customer withdraws cash from the machine.

Answer:

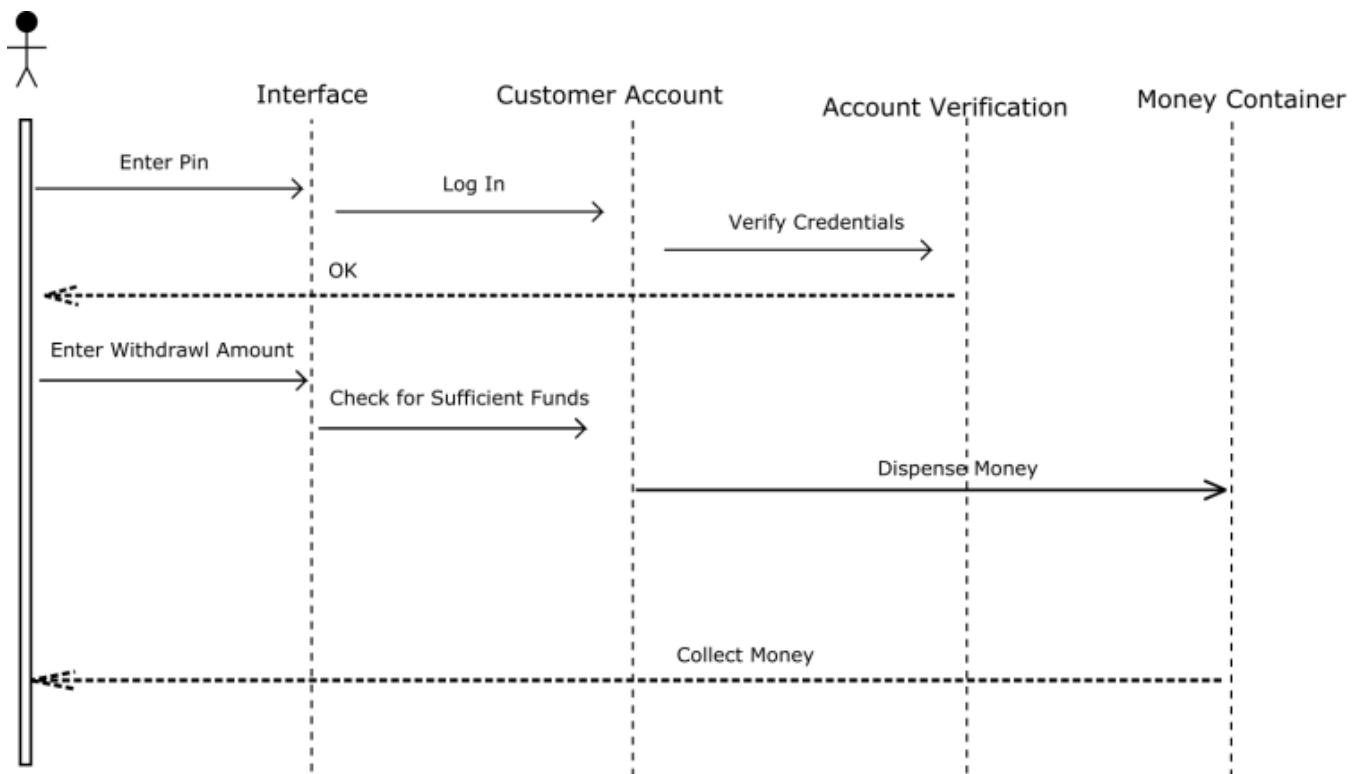


Question 5.8:

Draw a sequence diagram for the same system. Explain why you might want to develop both activity and sequence diagrams when modeling the behavior of a system.

Answer:

Both activity and sequence diagrams should be used when modeling a system because it will give a fuller description of the system structure. The activity diagram will give every possibility and show the flow of control within the system. Sequence diagrams on the other hand give a more detailed look at a system but only for a single use case. Thus if they are combined, there can be an overarching view through the activity diagrams and more specific instances with the sequence diagrams.

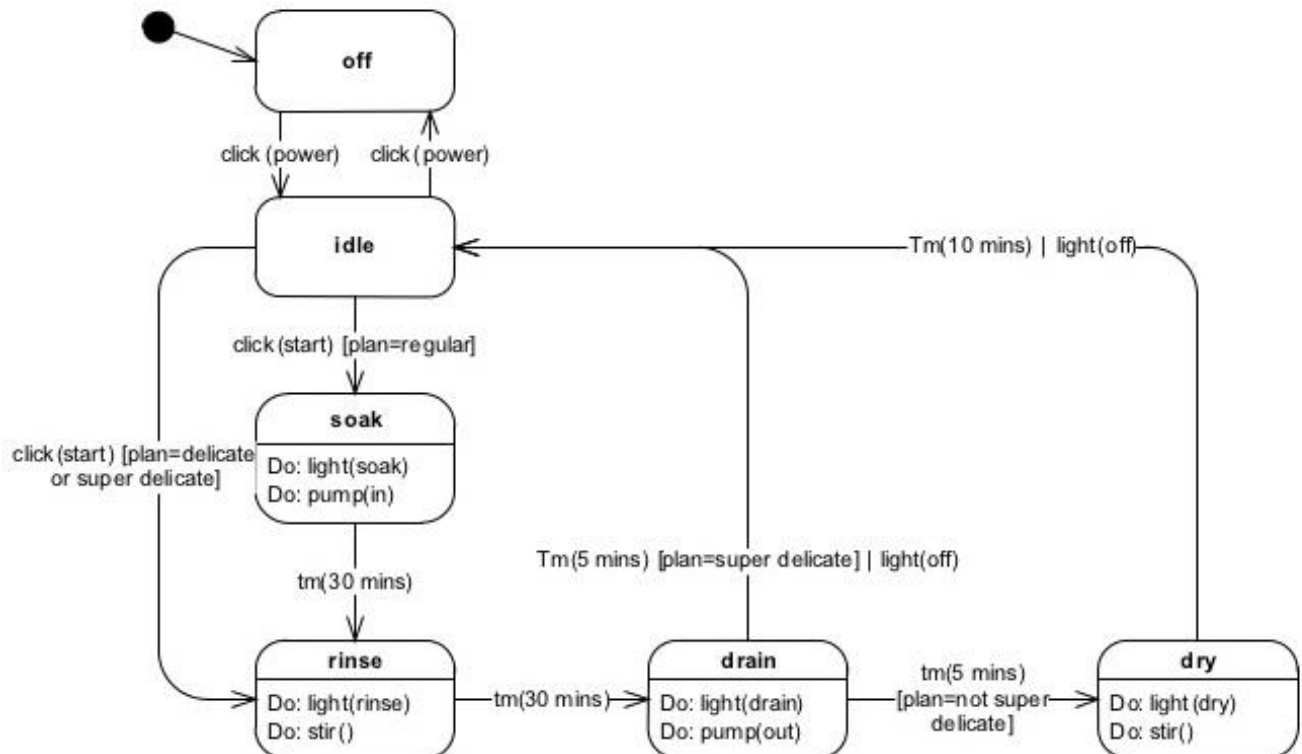


Question 5.9

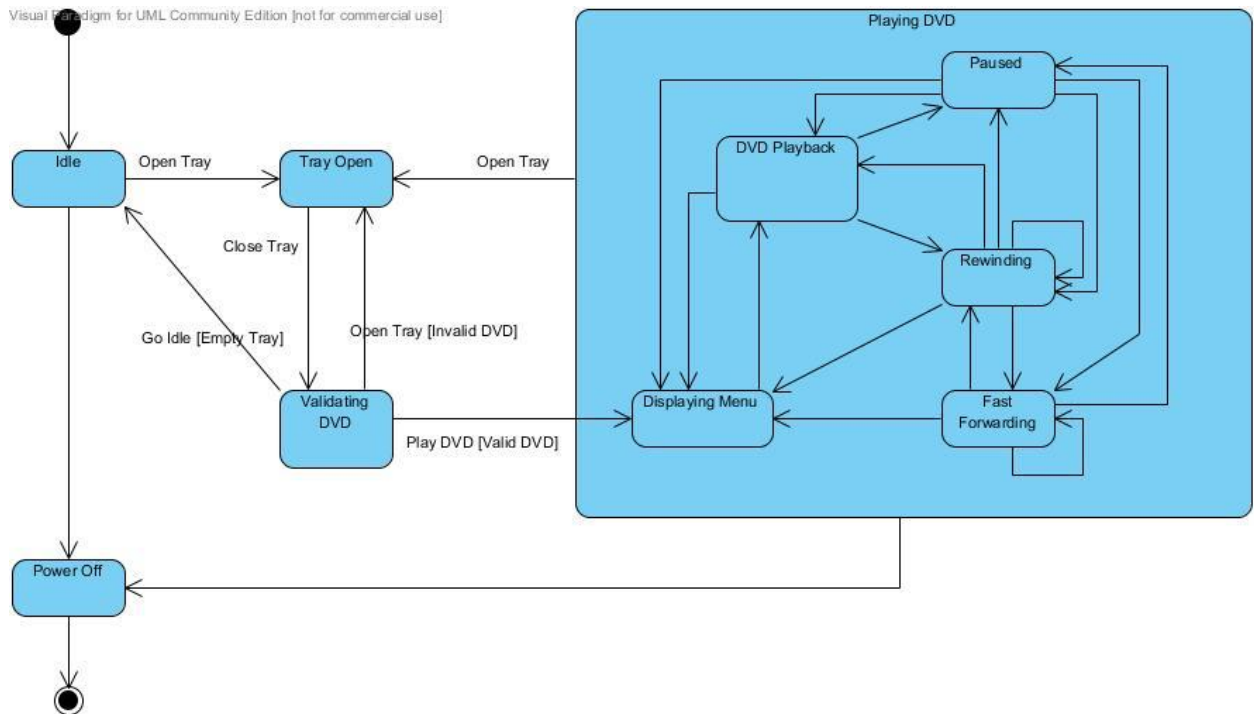
Draw state diagrams of the control software for:

- an automatic washing machine that has different programs for different types of clothes;

Answer:



- the software for a DVD player;



- the control software for the camera on your mobile phone. Ignore the flash if you have one on your phone.

