

Object-Oriented Technology and UML

Experiment 5

State Machine Diagram Modeling

Objectives

- Be familiar with the use of general elements of state machine diagram
- Be familiar with the general process of modeling state machine diagram

Case one: Credit Card (Personal work)

- Consider the several states of credit card, draw the state machine diagram to indicate the transition of states for credit card
- Various states of a credit card will be different depending on the issuer
 - In general, the states of a credit card may include
 - Under review
 - Be verified
 - Activation- no balance
 - Activation- balance owed
 - Cancellation
- The above description is for reference only

Case two: An electric water heater (Personal work)

- Build a state machine diagram for an electric water heater
- Draw the state machine diagram
- Briefly explain the states and transitions

Please consider the following questions

- Whether you can express composite state
- Whether you can express entry event and exit event?
- Whether you can express the internal transition, and if the internal transition will activate the entry event?

Experiment requirements

- The above two tasks are all required
- Requirements of report and email
 - Email: seuuml@qq.com
 - Email title: "Student ID Name UML EX5 State Machine diagram"
- Please submit your work before 7:00 pm on Saturday
- Attachment (Please do not compress)
 - Report name: "Student ID Name UML EX5 State Machine diagram"
- Please be sure to send the report according to the specified rules, otherwise, we will not receive your report