Software Engineering – BSCS –V- FALL 2017
LAB TASK: UML ACTIVITY MODELING

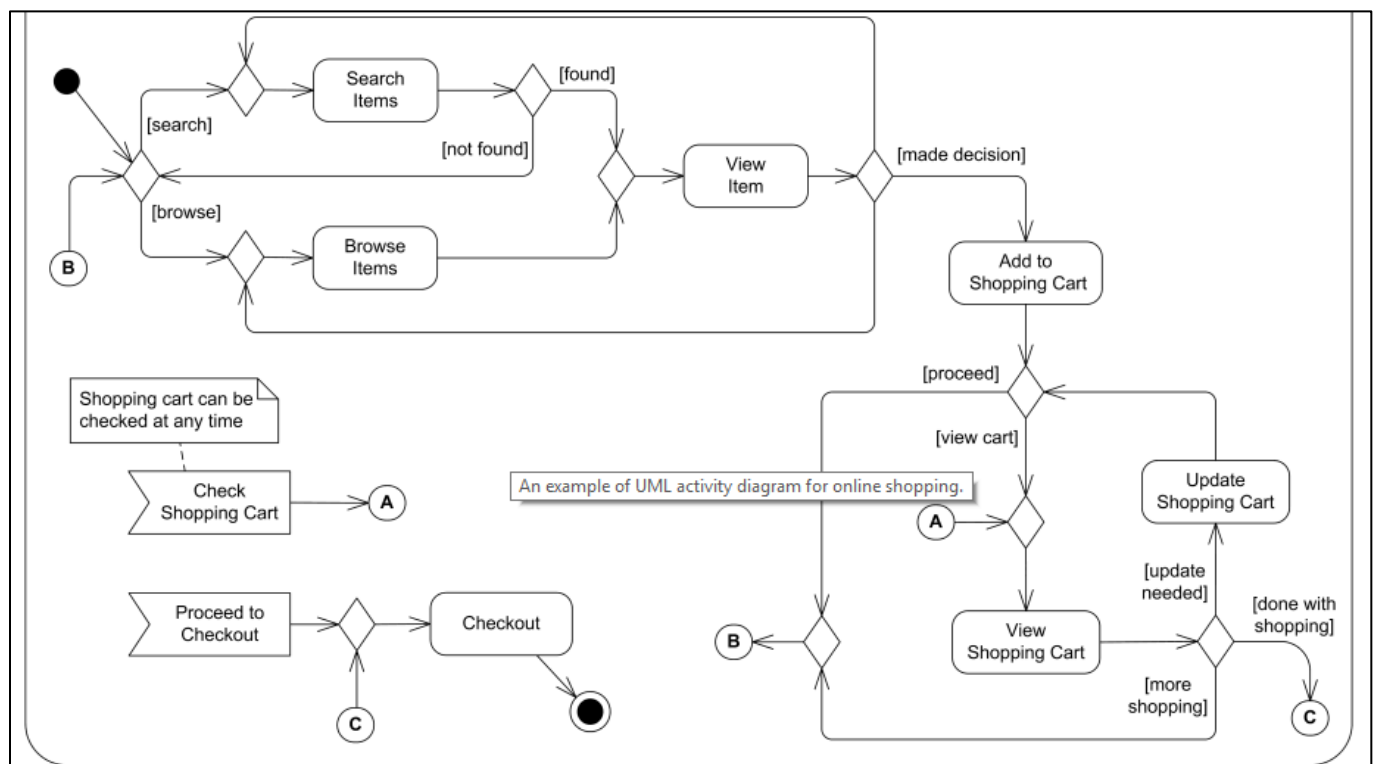TIME: 01 HOUR 20 MINUTES   MARKS 30
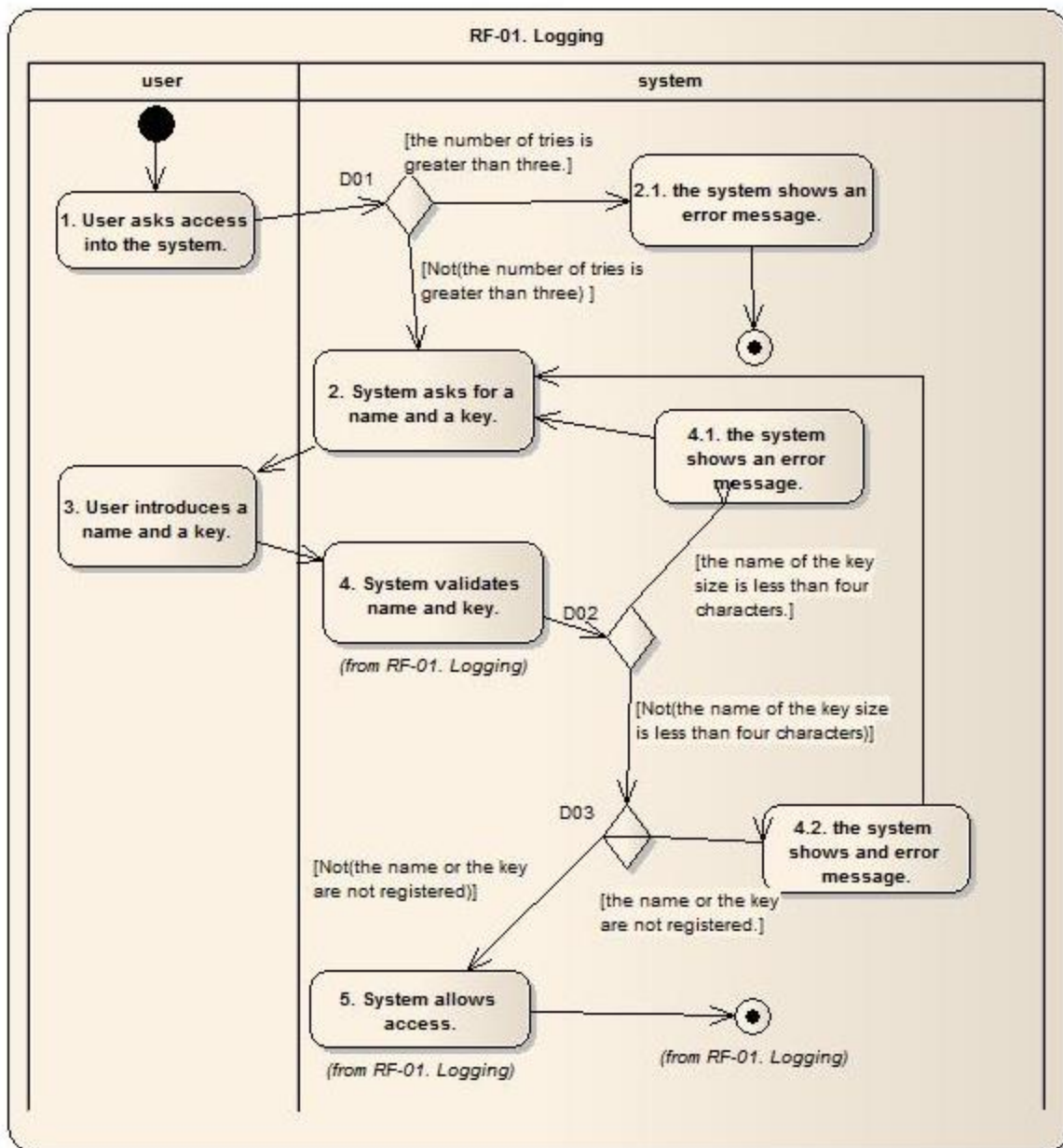
SUBMITTING YOUR LAB TASK:
https://github.com/aumc-bscs5th/Lab-Submissions

LAB PART – I

As discussed in the class you are required to thoroughly anayze the Activity Model Given below and write its descriptive use case.

ONLINE SHOPPING (A)

An example of UML activity diagram for online shopping.

LOGIN SYSEM (B)

RF-01. Logging

user | **system**

1. User asks access into the system.

D01

[the number of tries is greater than three.]

2.1. the system shows an error message.

[Not(the number of tries is greater than three)]

2. System asks for a name and a key.

4.1. the system shows an error message.

3. User introduces a name and a key.

4. System validates name and key.

(from RF-01. Logging)

D02

[the name of the key size is less than four characters.]

[Not(the name of the key size is less than four characters)]

D03

4.2. the system shows and error message.

[Not(the name or the key are not registered)]

[the name or the key are not registered.]

5. System allows access.

(from RF-01. Logging)

(from RF-01. Logging)

LAB PART – II (DRAW A COMPLETE UML ACTIVITY DIAGRAM BY OBSERVING USECASE GIVEN BELOW)

DRAW YOUR DIAGRAM IN MS VISIO

Adding a new user into System

```xml
<useCase id="UC-01. Add new user">
  <description>This use case allows a user to add himself into de system with a name and a
    password.</description>
  <precondition>No.</precondition>
  <postcondition>User is added with the rol "User" but he is not activated.</postcondition>
  - <mainSequence>
    <step id="1">The user request to add a new user into the system.</step>
    <step id="2">The system asks for the personal information, the user name and the
      password.</step>
    <step id="3">The user introduces his personal information, his user name and his
      password.</step>
    <step id="4">The system stores the new user.</step>
  </mainSequence>
  - <alternativeSteps>
    <astep id="2.1">At any time the user may cancel the operation, then this use case
      ends.</astep>
  </alternativeSteps>
  - <errorSteps>
    <estep id="3.1">If the name was already registered, then the system shows an error
      message and step 3 is repeated.</estep>
    <estep id="3.2">If personal information is empty, then the system shows an error message
      and step 3 is repeated.</estep>
  </errorSteps>
</useCase>
```