

CITY UNIVERSITY

“Creating of Culture of Excellent”

Assignment No:- 02

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Course Title:- System Analysis and Design

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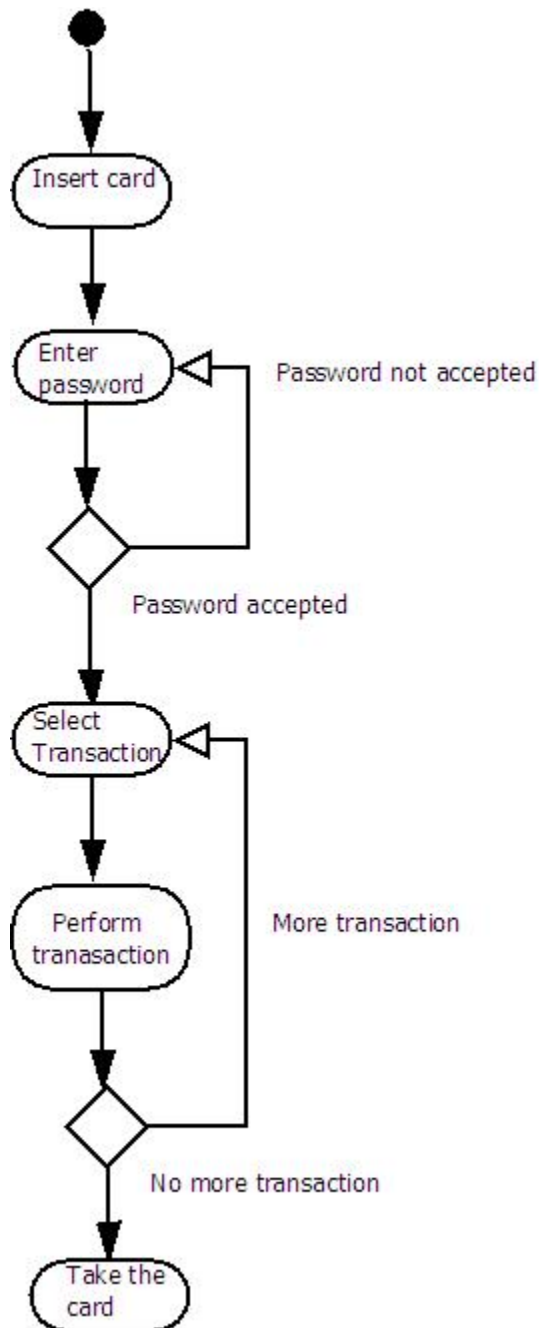
Senior Lecture

Department of Computer Science

City University, Bangladesh

What is activity diagram ?

Activity diagrams are graphical representations of **workflows** of stepwise activities and actions with support for choice, iteration and concurrency. In the **Unified Modeling Language**, activity diagrams are intended to model both computational and organizational processes

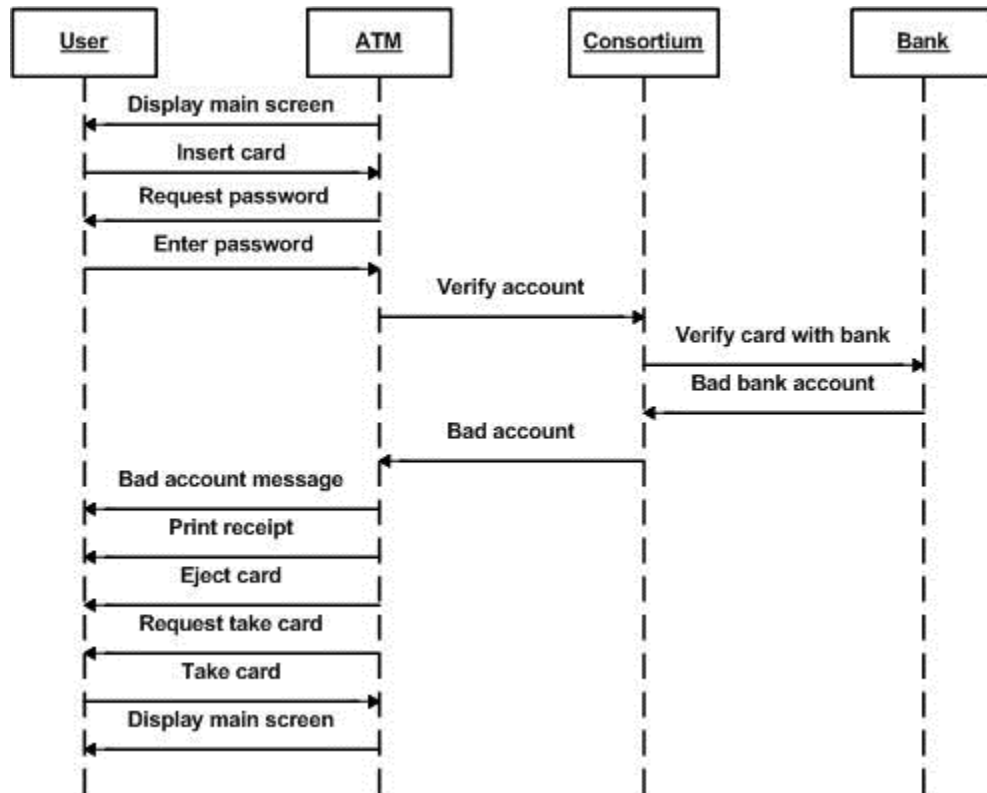


Guidelines for creating Activity Diagrams

- Minimize the number of crossings links or relationship among activities.
- Reorganize larger diagrams into several smaller ones. It is often easier to have several diagrams on various levels of detail than a single complex one.
- Use swim lanes to model responsibility of stakeholders, function of department or service provided by operational units.
- It can be used to elaborate the logic of an entity in UML, such as, a use case, function or orchestration of several use cases and etc.

What is sequence diagram?

A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the scenario.



How to draw Sequence Diagram

1. Identify who starts the interactions (which actor)
2. Describe the message exchange between actors and the business systems in textual form called flow of events
3. Consider each of the flows in the flow of events repeatedly to identify the participating objects which are required to get the task done.
4. Detail the message exchange between the participating object
5. Consider the creation and deletion of object lifeline as well
6. Review and touch up by running through the entire scenario