

# ***Mawlana Bhashani Science and Technology University***



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## *Department of Information and Communication Technology*

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**Course Code** : *ICT-3210*  
**Course Name** : *Software Engineering Lab*  
**Name of the Lab** : *Sequence Diagram of the project*  
**Lab No.** : *03*

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**Session: 2016-17**  
**3rd Year 2nd Semester**

**Date of Submission:** *31-October-2020*

**Sequence Diagram:** A sequence diagram is a type of interaction diagram because it describes how—and in what order—a group of objects works together. These diagrams are used by software developers and business professionals to understand requirements for a new system or to document an existing process. Sequence diagrams are sometimes known as event diagrams or event scenarios.

### **Benefits of sequence diagrams:**

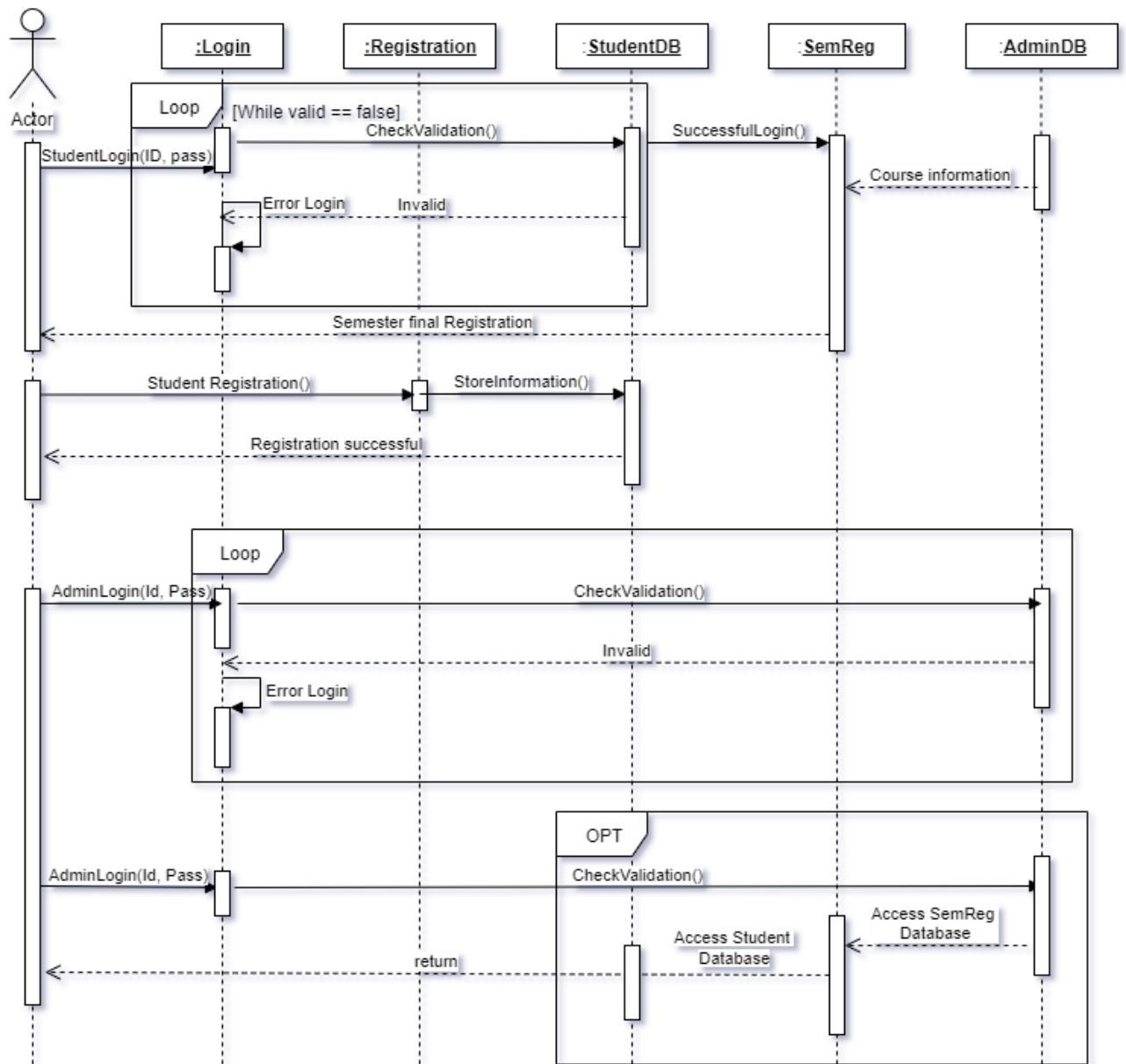
Sequence diagrams can be useful references for businesses and other organizations. Try drawing a sequence diagram to:

- Represent the details of a UML use case.
- Model the logic of a sophisticated procedure, function, or operation.
- See how objects and components interact with each other to complete a process.
- Plan and understand the detailed functionality of an existing or future scenario.

### **Purpose of Sequence Diagram:**

- Model high-level interaction between active objects in a system
- Model the interaction between object instances within a collaboration that realizes a use case
- Model the interaction between objects within a collaboration that realizes an operation
- Either model generic interactions (showing all possible paths through the interaction) or specific instances of a interaction (showing just one path through the interaction)

## The Sequence diagram of “Online Credit Fee Payment System”



**Fig.** Sequence diagram.

**Conclusion:** From this lab I come to learn the sequence diagram. Our course teacher Mr. Tanvir Rahman sir has given the instruction to draw a sequence diagram of our project (Online Credit Fee Payment System). The sequence diagram shows the interaction between actor and database of the project.