

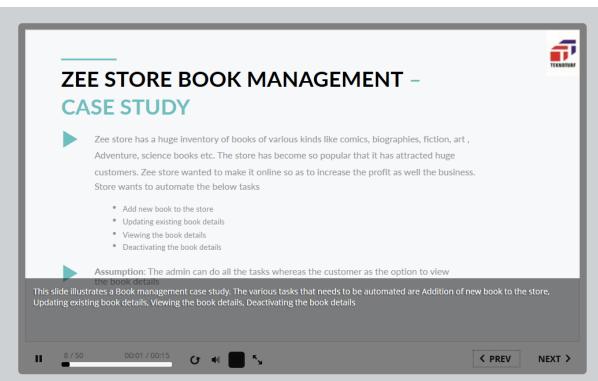


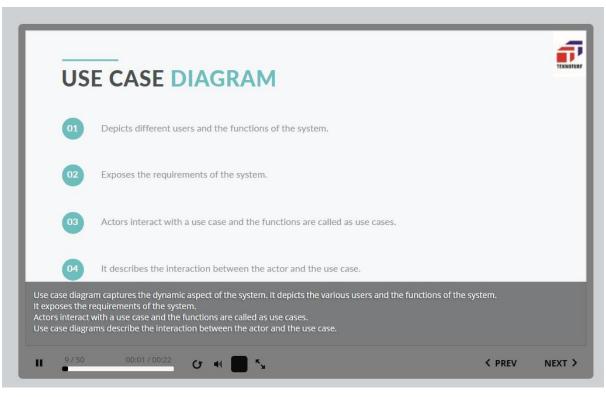
Diagrams that depict the generic behavior of the system fall under behavior diagram and they represent dynamic view of the system.

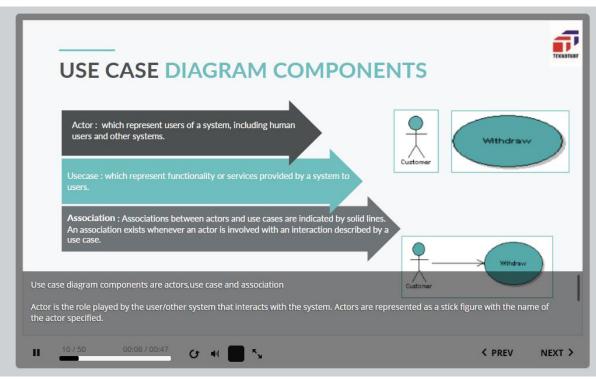
Diagrams that depicts the interaction behavior of the system with other entities fall under interaction diagrams and they represent the dynamic view of the system.

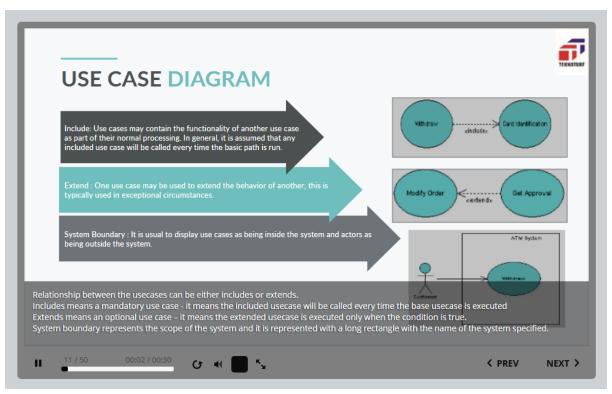
Solve the system with other entities fall under interaction diagrams and they represent the dynamic view of the system.

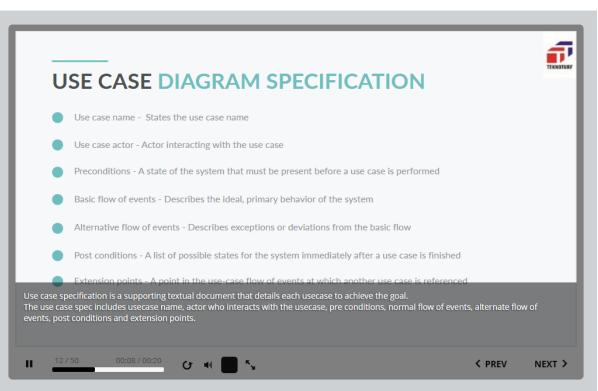


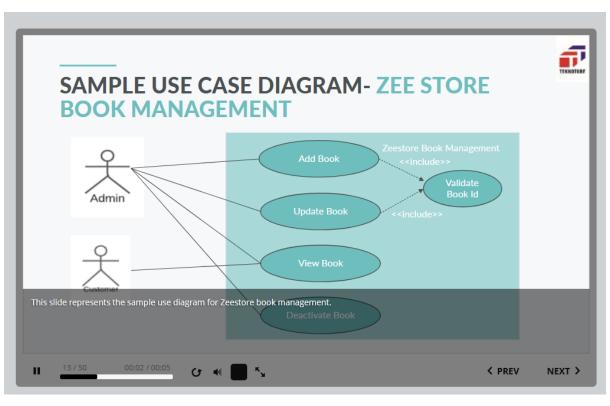


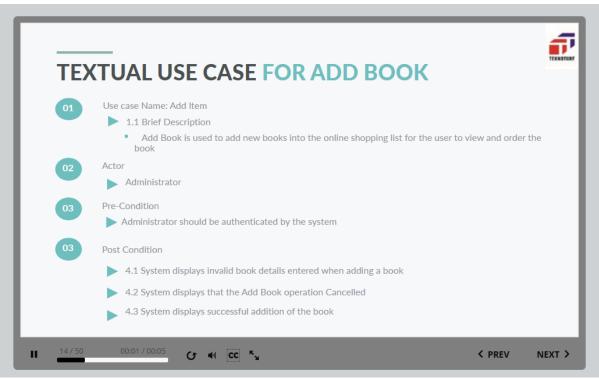














TEXTUAL USE CASE FOR ADD BOOK



5.1 Basic Flow

- > 5.1.1 User enters the book name, author, publisher and price
- ▶ 5.1.2 System validates the book details
- ▶ 5.1.3 System prompts for confirmation for adding the book
- ▶ 5.1.4 User provides Confirmation
- > 5.1.5 System generates the book Id
- > 5.1.6 Systems adds the book details to the database
- > 5.1.7 System displays successful addition of the book

15 / 50 00:0

00:04 / 00:06



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NEXT >

TEXTUAL USE CASE FOR ADD BOOK



5.2 Alternate Flow

5.1.2.1: Book Details entered are Invalid

- > 5.1.2.1.1 System displays invalid book details entered when
- adding a book

 5.1.2.1.2 Use case is terminated

5.1.4.1: User cancels the Add Book Operation

- ▶ 5.1.4.1.1 System displays that the Add Book operation Cancelled
- ► 5.1.4.1.2 Use case is terminated

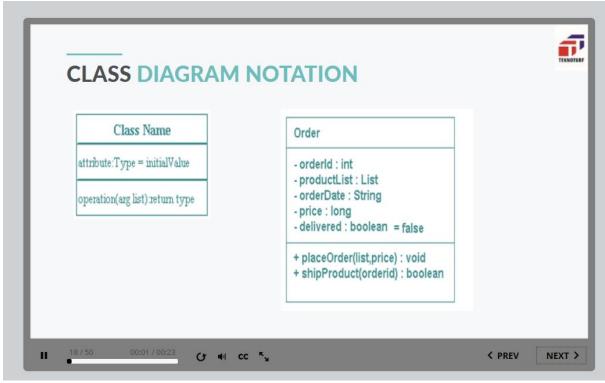
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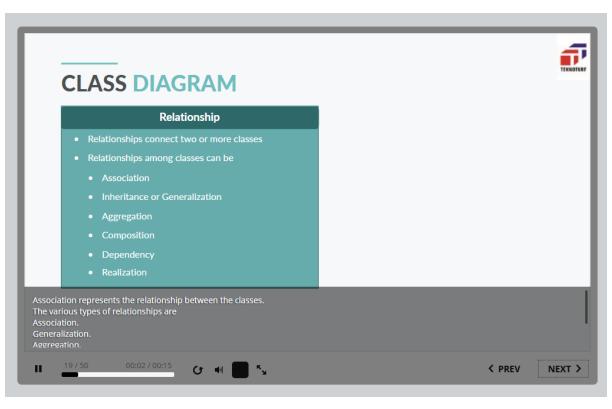
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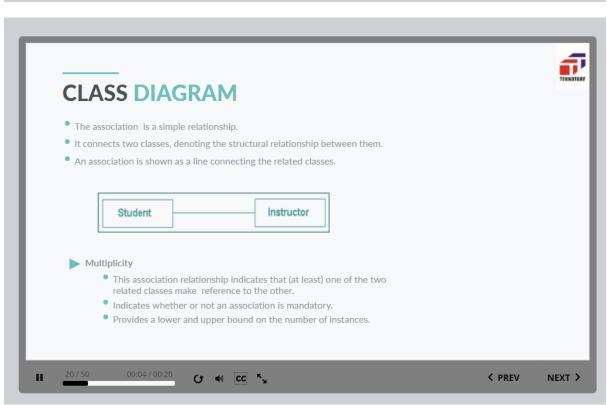


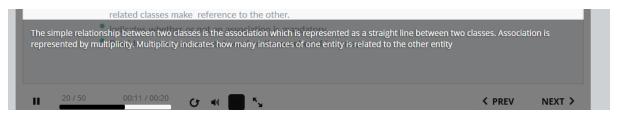
+ shipProduct(orderid) : boolean

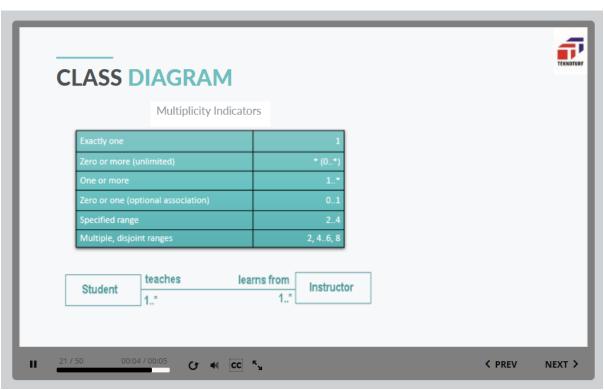
Here we see a sample class in the class diagram. A class is represented as rectangle with three compartments. The first compartment represents the class name, the second compartment represents the attributes and the third compartment specifies the methods. – indicates private and + indicates public

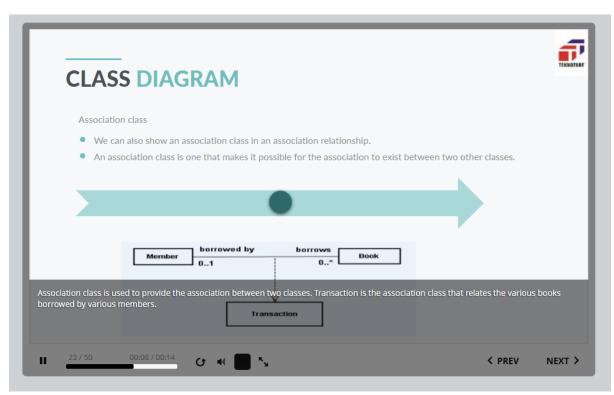


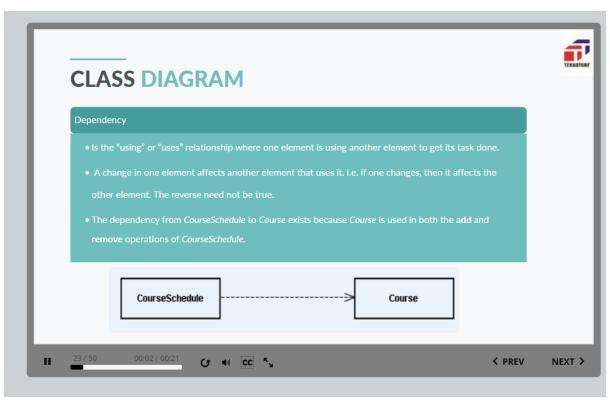


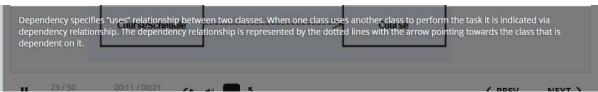


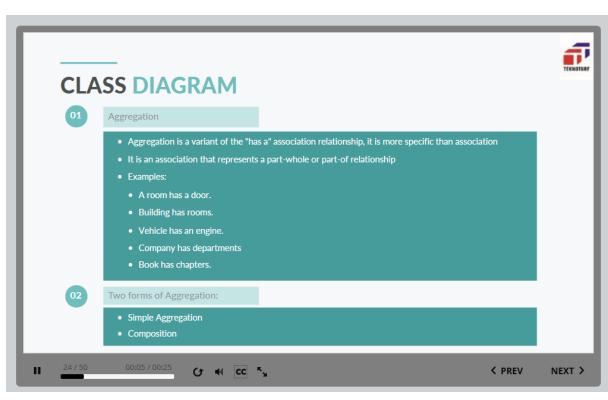






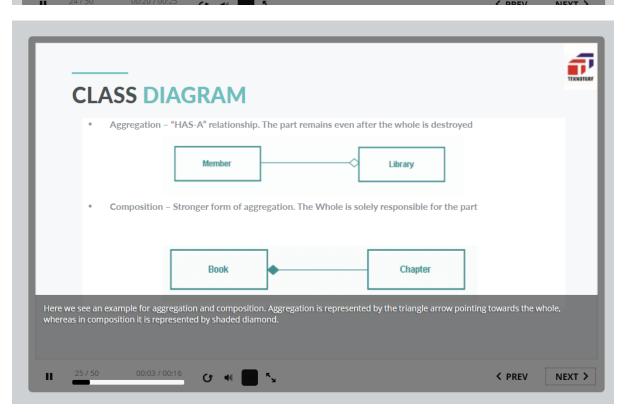


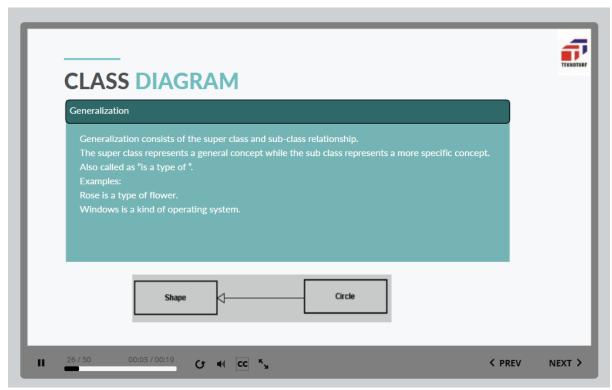




Whenever there is "is a part of relationship" between two classes then there is an aggregation relationship. Composition is the stronger form of aggregation.ie if part exits independently, off the whole, it is aggregation, if the part dies, as the whole dies then it is composition ie part cannot exist without the whole.

Composition



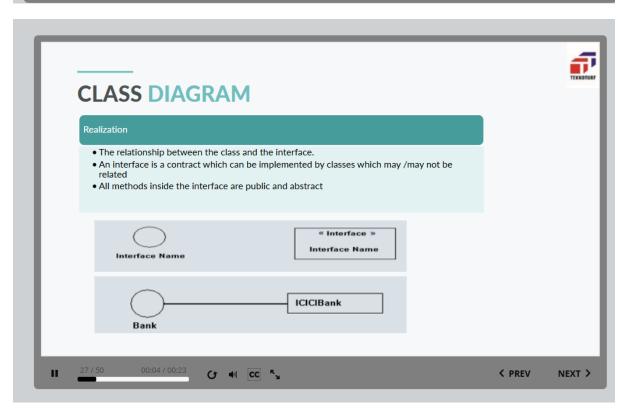


Whenever there is – "is a type of" relationship between two classes then it is called as generalization relationship.

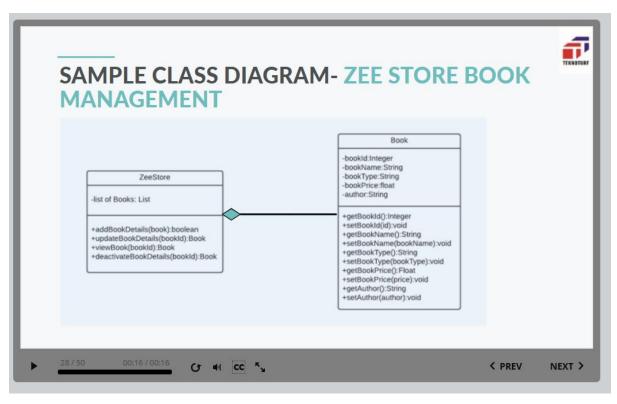
Generalization has the super class and sub-class relationship.

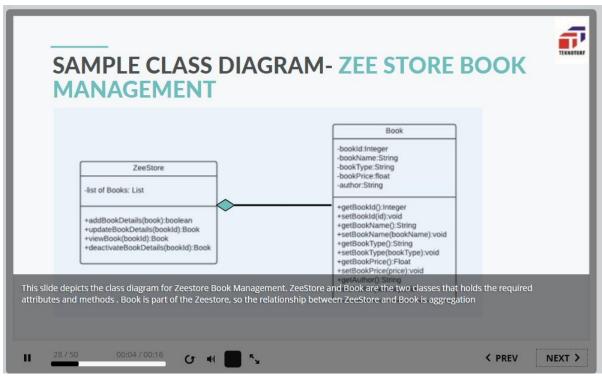
The super class represents a general concept while the sub class represents a more specific concept.

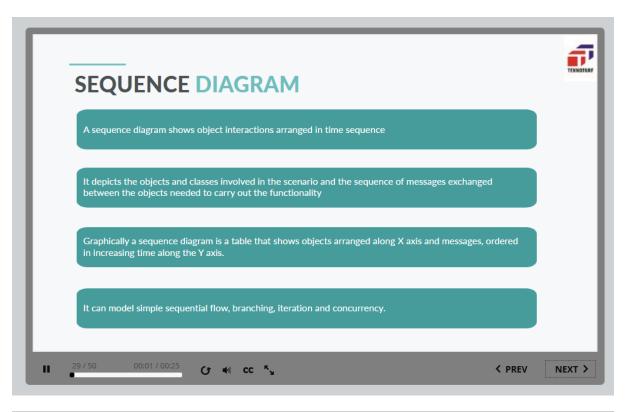
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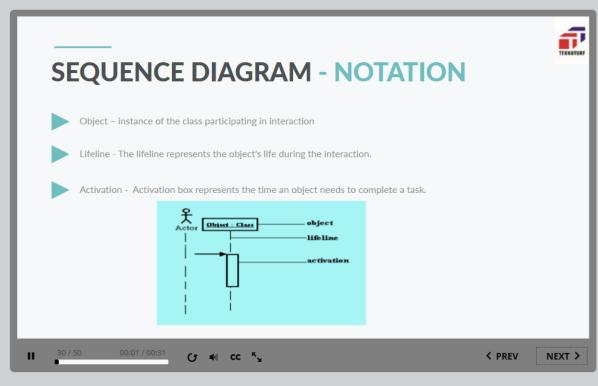


Realization relationship is the relationship between the class and the interface. Interface can be either represented as the rounded circle or rectangle with the stereotype interface and the name of the interface. Relationship is represented by the straight line between the class and the interface



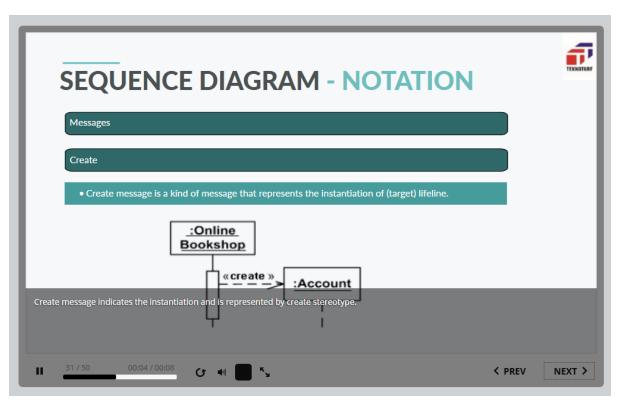


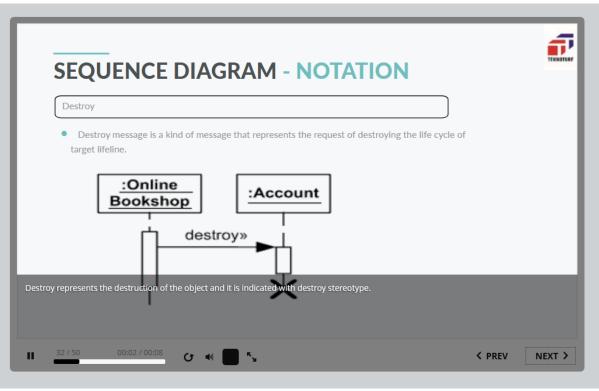


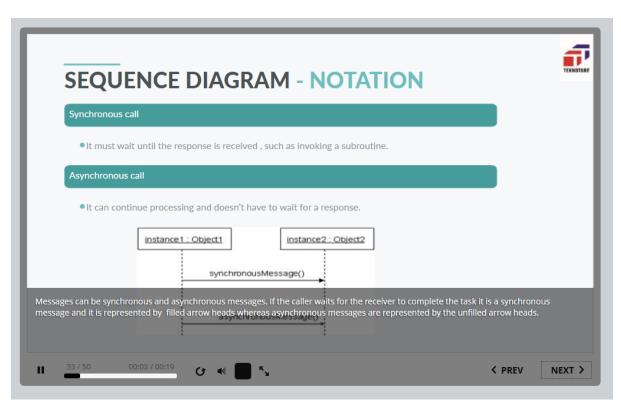


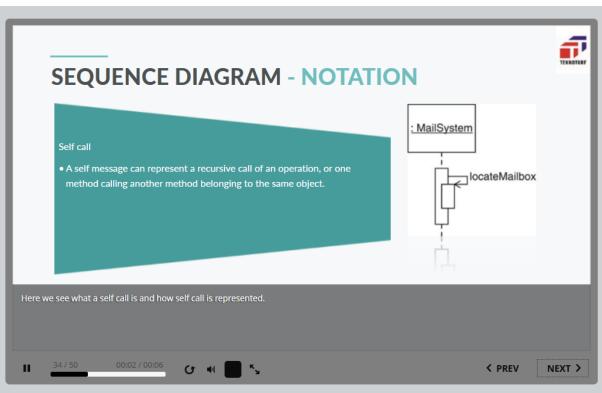
The various components of interaction diagram are
Object represented by rectangle with objectname:class name underline.
The lifeline represents the object's life during the interaction. It is represented by dotted lines
Activation box represents the time in which an object needs to complete a task. It is represented by the long rectangle in the life line
Actor is obtional to be specified in the sequence diagram.

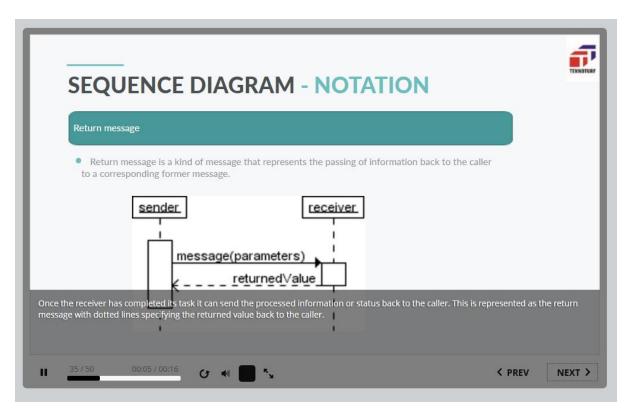
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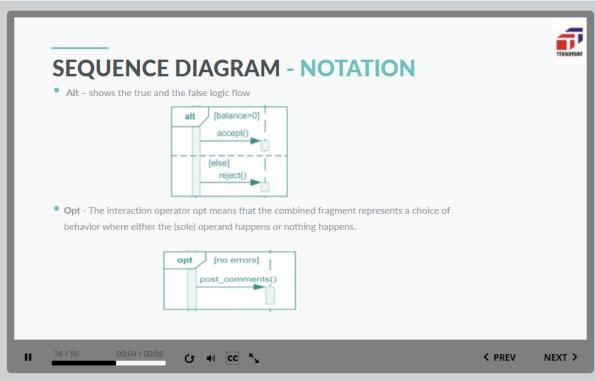


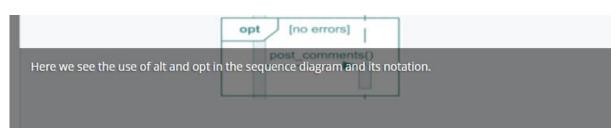


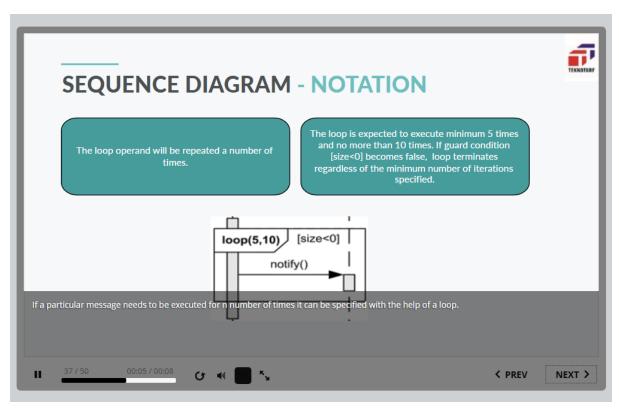


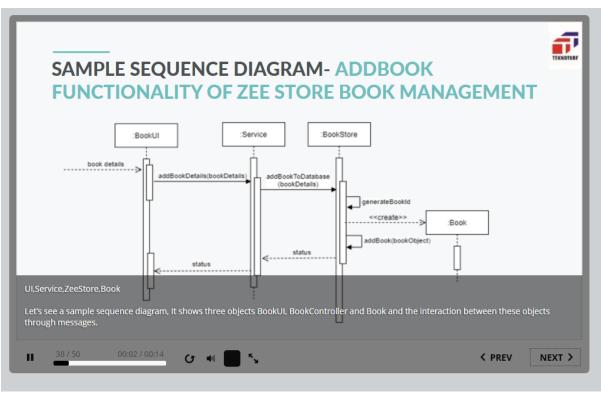


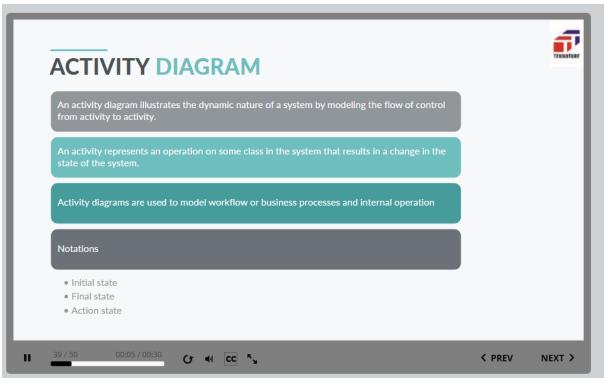








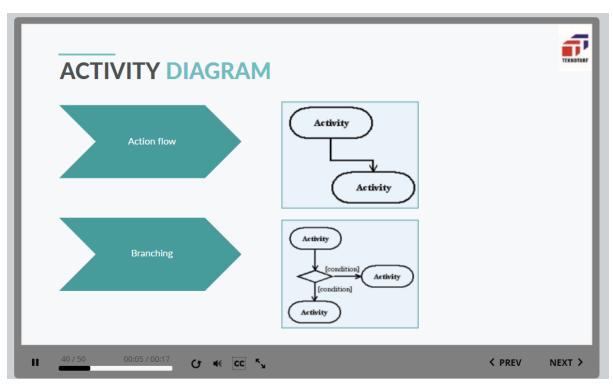




Activity diagram also depicts the dynamic aspect of the system. Activity diagram is like a flow chart that depicts the flow of control from activity to activity. State
Various components of activity diagram are:

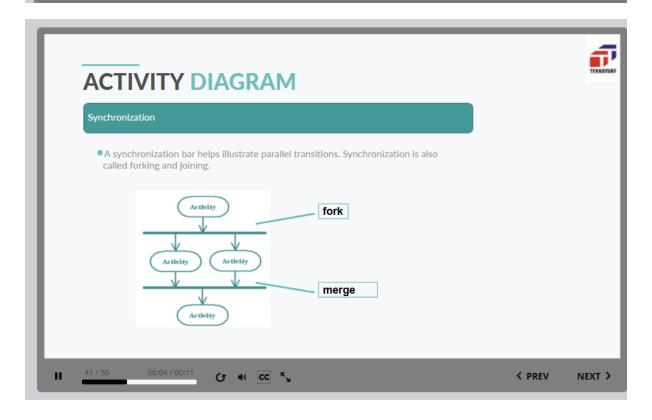
Intial state – that represents the start of the activity diagram.



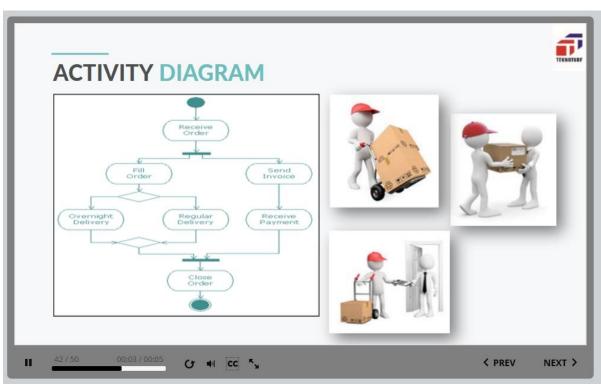


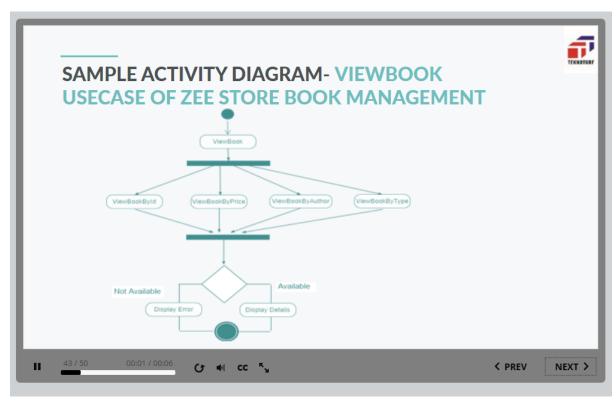
Action flow specifies the transition from one action state to another.

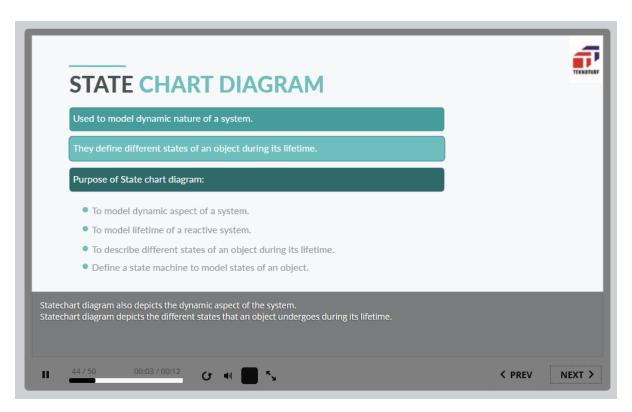
Branching represents the decision like in the flow chart - if the condition is true, then it takes a specific path otherwise an alternate path.

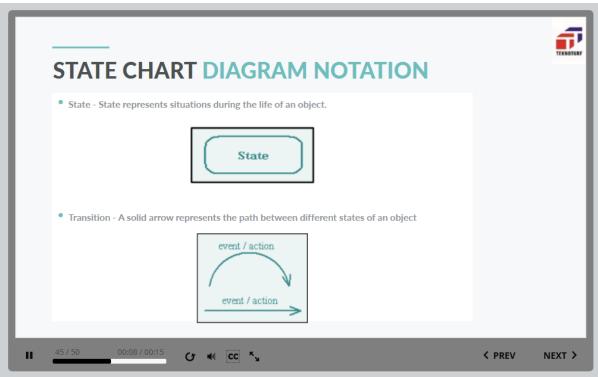












The various notations of state chart diagram are:
State - that represents the situations during the life of an object.
Transition - which is a path between different states of an object.

