**Types of UML Diagrams:** The current UML standards call for 14 different kinds of diagrams. These diagrams are organized into two distinct groups: structural diagrams and behavioral or interaction diagrams. As the names suggest, some UML diagrams analyze and depict the structure of a system or process, whereas others describe the behavior of the system, its actors, and its building components. The different types are broken down as follows:

**Structural UML diagrams**

* Class diagram
* Object diagram
* Package diagram
* Component diagram
* Composite structure diagram
* Deployment diagram
* Profile diagram

**Behavioral UML diagrams**

* Use case diagram
* Activity diagram
* Sequence diagram
* State diagram
* Communication diagram
* Interaction overview diagram
* Timing diagram

In this course, we will be focusing on the following UML diagrams:

* **Use Case Diagram:** Used to describe a set of user scenarios, this diagram, illustrates the functionality provided by the system.
* **Class Diagram:** Used to describe structure and behavior in the use cases, this diagram provides a conceptual model of the system in terms of entities and their relationships.
* **Activity Diagram:** Used to model the functional flow-of-control between two or more class objects.
* **Sequence Diagram:** Used to describe interactions among classes in terms of an exchange of messages over time.