Unified Modeling Language (UML) |

What is UML?
It is the general purpose modeling language used to visualize the system. It is a graphical language that is standard to the software industry for specifying, visualizing, constructing and documenting the artifacts of the software systems, as well as for business modeling.

Benefits of UML:
- Simplifies complex software design, can also implement OOPs like concept which is widely used.
- It reduces thousands of words of explanation in a few graphical diagrams that may reduce time consumption to understand.
- It makes communication more clear and real.
- It helps to acquire the entire system in a view.
- It becomes very much easy for the software programmer to implement the actual demand once they have the clear picture of the problem.

Types of UML: The UML diagrams are divided into two parts: Structural UML diagrams and Behavioral UML diagrams which are listed below:

1. Structural UML diagrams
   - Class diagram
   - Package diagram
   - Object diagram
   - Component diagram
   - Composite structure diagram
   - Deployment diagram
2. Behavioral UML diagrams
   - Activity diagram
   - Sequence diagram
   - Use case diagram
   - State diagram
   - Communication diagram
   - Interaction overview diagram
   - Timing diagram