

## OOP\_PCOM7E September 2022 Object Oriented Programming

### Unit 3 UML

**Discuss** which UML models are most applicable at different stages of the Software Development Life Cycle.

#### UML

The use of UML models can benefit the software development in various aspects, no matter in the requirement setting stage, development stage and implementation stage. First of all, the UML model are represented by several diagrams. These diagrams are mostly simple and easy to understand. It then helps to trim down complicated requirements into simple and major tasks. The diagrams are broken to various aspects, mainly behavioural and structural. Each of these diagram represented an essential elements in software development, such as major tasks in the operation (use case diagram), the objects required and what they will do (class diagram), information flow (sequence diagram), the system logic and interaction between objects (activity diagram) so that they are easy to use during the development. The pictorial approach makes it easy to understand and communicate with teammates.