Guru99



UML Diagram Cheat Sheet and Reference Guide

By Alyssa Walker Updated February 26, 2022

In this UML Notation Cheat Sheet, you will learn:

- Things in UML
- Relationships type in UML
- UML Use Case Diagram
- UML State Machine Diagram
- UML Activity Diagram
- Sequence Diagram
- Collaboration diagram
- Timing diagram
- UML Component Diagram
- Deployment Diagram

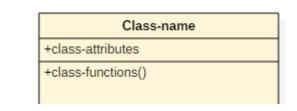
Things in UML

A thing can be described as any real-world entity or an object. Things are divided into various categories in UML as follows,

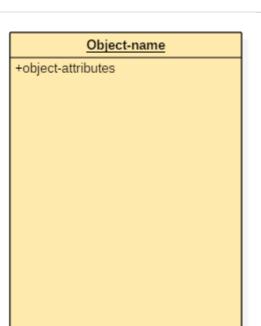
- Structural things
- Behavioral things
- Grouping things
- Annotational things

Structural things

Structural things are all about the physical part of a system. It is the noun of a UML model, such as a class, object, interface, collaboration, use case, component, and a node.



Class: A class is used to represent various objects. It is used to define the properties and operations of an object.



Object: An object is an entity which is used to describe the behavior and functions of a system. The class and object have the same notations.

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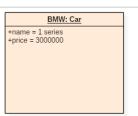


Top 10 Behavioral Interview Questions an Answers



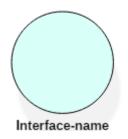
How to write a TEST CASE Software Testing Tutorial

Ferrari: Car +name = Portofino +price = 35000000

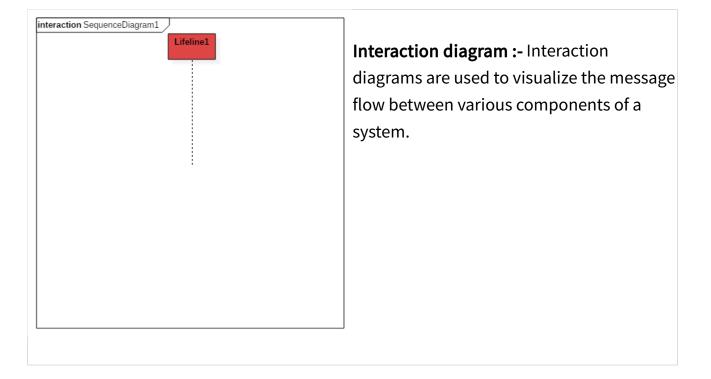


Example of Object Diagram: The below UML object diagram contains two objects named Ferrari and BMW which belong to a class named as a Car. The objects are nothing but real-world entities that are the instances of a class.

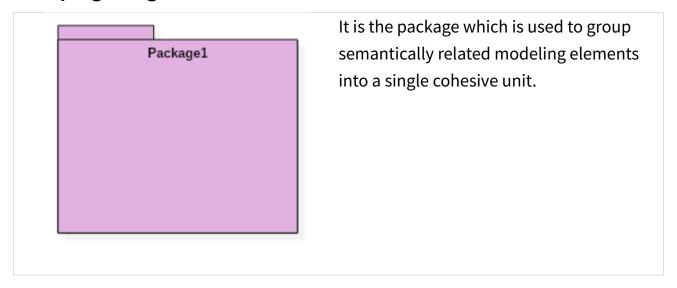
Interface: - An interface is similar to a



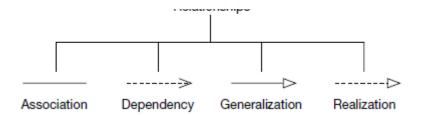
They are the verbs of a UML model, such as interactions, activities and state machines. Behavioral things are used to represent the behavior of a system.



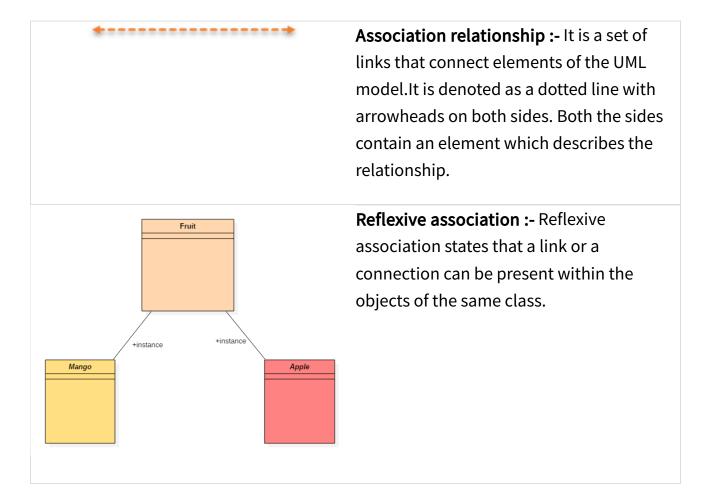
Grouping things

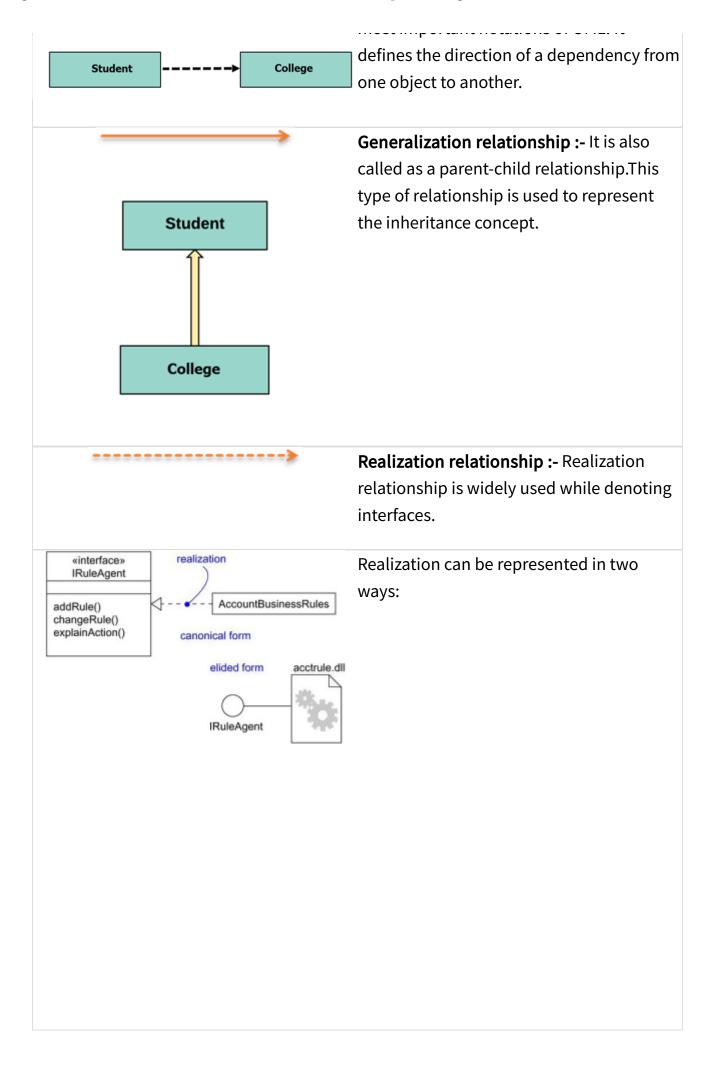


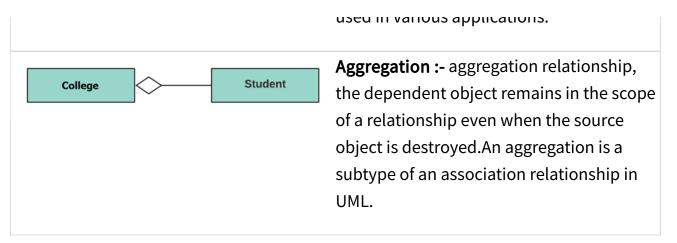
Annotational things



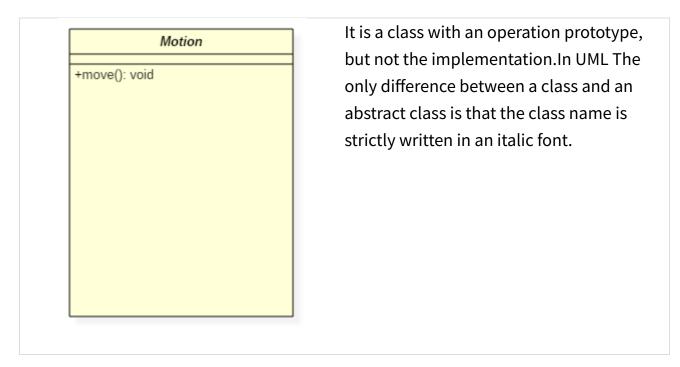
The relationship allows you to show on a model how two or more things relate to each other.

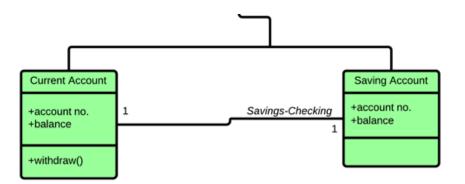






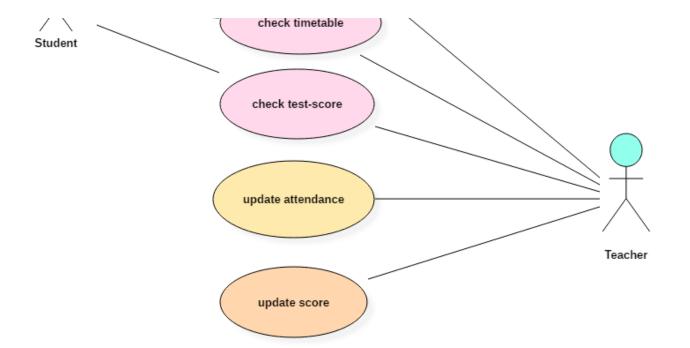
Abstract Classes

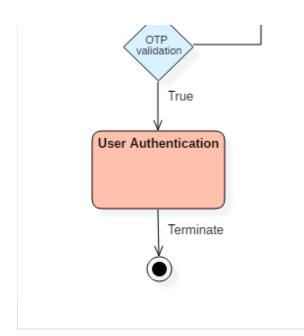




UML Use Case Diagram

Use Case Diagram captures the system's functionality and requirements by using actors and use cases. Use Cases model the services, tasks, function that a system





again go back to the beginning state until the user enters the correct OTP.

