

OBJECT ORIENTED Software Engineering

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Aim:- To prepare the class diagram for Railway Management system.

Theory:- In software engineering, a class diagram in the unified modelling language is a type of static structure diagram that describes the structure of the system by showing the system class, their attribute, operations & the relationship among objects. It is a graphical language that is a standard to the software industry for specifying, visualizing, constructing & documenting, the artifacts of the software system as well as for business modelling.

The class diagram describes the attribute & operations of a class. They are widely used in the modelling of a class of object oriented system because they are the only UML diagrams which can be mapped directly with object-oriented languages. The class diagram is also known as a structural diagram.

* Purpose of class Diagram

- ① Analysis & design of the static view of an application.
- ② Describe the relationships & responsibilities of a system.
- ③ Base for component & deployment.
- ④ Forward & Reverse engineering.

* Modifiers in class Diagram

Each class is represented by a rectangle having a subdivision of three compartment name, attribute & operation.

- '+' is used for public visibility,
- '#' is used for protected visibility,
- '-' is used for private visibility.

class Diagram

