

CyberZone Software Solutions

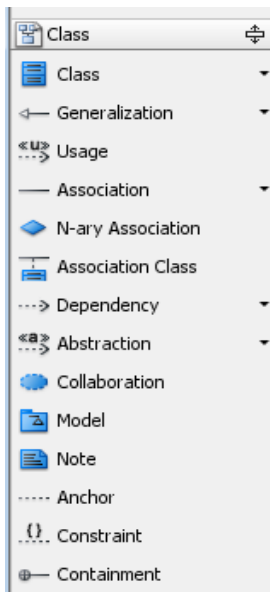


Project: **Software System for Sri Lanka Railway Department**

Practical no.: 5 – Domain Modelling

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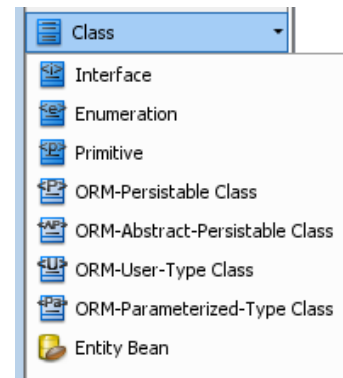
For Domain Modelling, we used Visual Paradigm, the same tool we used to draw our previous diagrams. For this case it gives us a special toolsets.



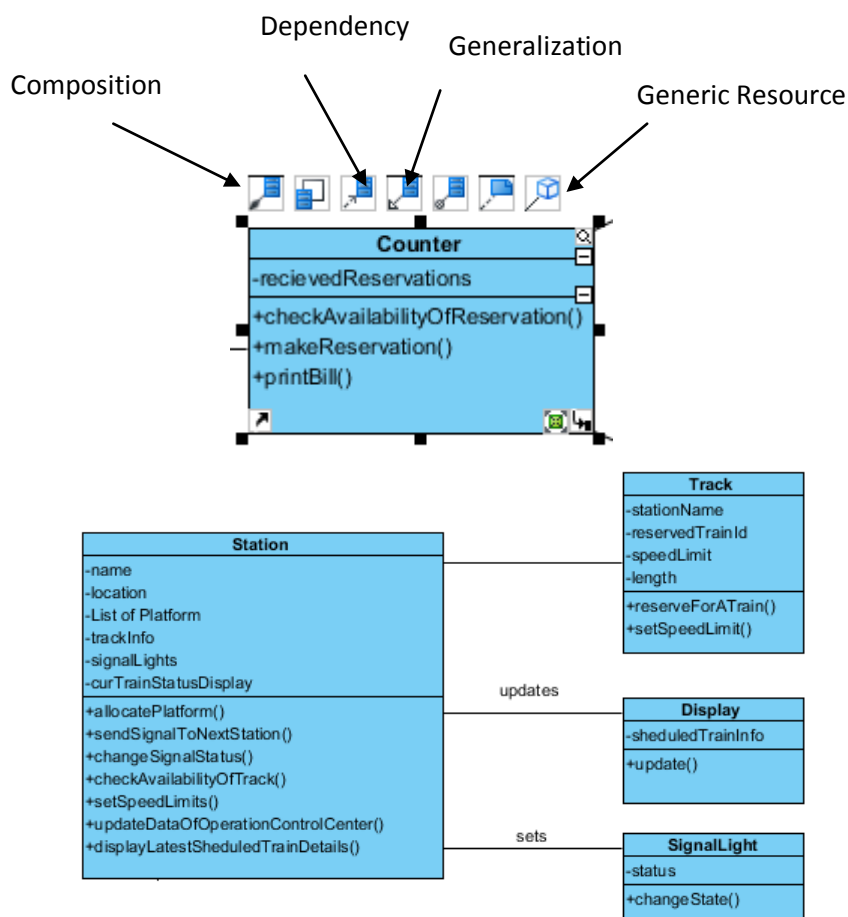
By class tool we can easily create classes by just one-click on the worksheet. Also we can add attributes, methods easily into the class.

- It has an in-built syntax error finding tool which guides us to name the attributes and operations correctly.

- It consists of a quality checker that checks the design of the classes and tells us the weaknesses of them.



When we create a class, it produces us some sub-tools that allow us to easily represent the interconnectivity of classes.



We have chosen 3 sub-domains for this project. They are

1. Operation Control and Maintenance
2. Stations and Tracks
3. Parcels and Reservation Control

The two sections, Operation Control Center and Maintenance sections usually interacts much when working because Operation Control need to know the exact information(current conditions) about a particular engine before allocating it. And also after each journey the engine should be checked. After each checking they have to update the status of their databases of Engines.

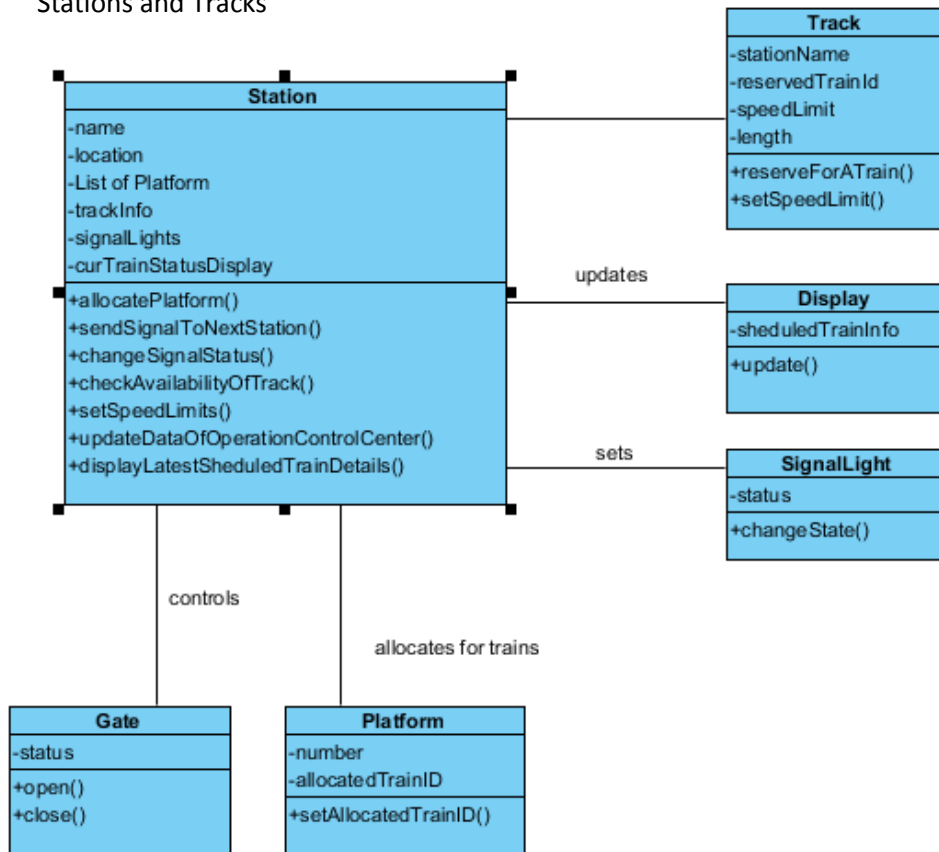
Stations and Tracks domain usually contains a large database of Stations and Tracks around the country so it is easier if it is considered as a separate domain. The other sections interact with this sub-system to update their status.

Parcels and Reservation Control can be easily considered as a separate domain because it usually doesn't much dependent by the technical details of the system. It is mainly consists of financial activities.

Operation Control and Maintenance



Stations and Tracks



Parcels and Reservation Control

