# **3 Design**

# **3.1 Introduction to Design**

One of the important part while developing a project is Design. The second stage of the software development life cycle (SDLC) is design. The system is designed according to the constructed analysis and requirements. Design contains the structure of a system that is to be built which can be represented by various diagrams. Design stage helps a system to be built without having many complication and the errors can be identified easily. The features and function can be described in detail in design specification. Structural models and Behavioral models are mostly covered in design. The design should also include the design of the database system before implementation.

## **3.2 Structural Model**

The whole framework of the system is represented in structural model. It represents all the classes and objects of the system is represented in structural model and also shows their relationship with each other. Class diagram is one of the type of structural model. Different classes, attributes, operations and the relationship between these objects is represented in class diagram.