

## DFD

DFD level 0 describes the interaction of the system and the environment. It shows us all the input and outputs of the system. It is a high level abstraction of the design. In our project we have registered user, admin and visitor interacting with the system. This design shows the functionalities these users can perform on the system.

DFD level 1 is an even more detailed description of the interaction between the system and the environment. It shows all the functionalities given to different users (registered user, visitor and admin) and the flow of data when each of the user performs the functionalities given to them.

## SWIM LANE

Swim lane visually distinguishes job sharing and responsibilities for sub-processes of a business process. The different sub-processes are the different activities that can be performed the users. This design shows the sequence in which each of this activities are performed. The various activities in our project include registration by user, viewing stock details by user and visitor, managing the company and stocks by admin, buying and selling of stocks by admin and user.

## CRC and Class Diagram

Class Responsibility Collaboration diagram tells us how each class is collaborated with other classes and the functionalities through which the classes are collaborated. The classes in our project are user, admin, buy, sell, company, ownership, stocks and visitor. The diagram shows the link between these classes.

Class diagram describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among objects. The class diagram shows the relationship between the classes in our project (user, admin, buy, sell, company, ownership, stocks and visitor).