# **Design**

## The Design Phase describes how the system will fulfill the user requirements. To achieve this, we must create both a logical design and physical design. In this phase the systems design functions and operations are described in detail, including storyboard and screen layouts with annotations, business rules, process diagrams and other documentation. The output of this stage will describe the new system as a collection of modules or subsystems.

# **Structural Design**

### **Final Class Diagram**

### **Flow Chart**

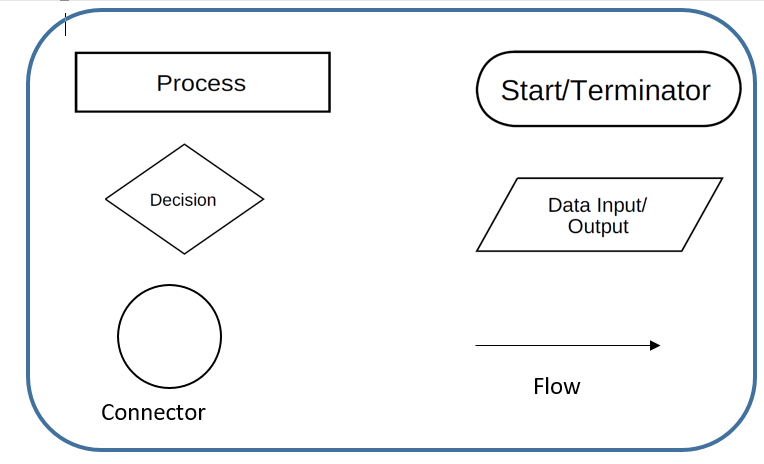
## **Flow Chart**

### Flow chart is a graphical representation of a computer program in relation to its sequence of functions (as distinct from the data it processes).

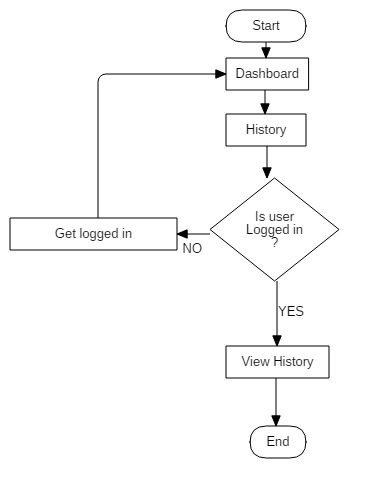
### **Justification**

It shows how a process is performed from start to finish, typically in sequential order Troubleshooting of the logical problems are easy while designing the ER model. It helps to identify how long it takes to complete each task in a specific process. It is difficult to fix bugs and problems in workflow, if you do not know what went wrong and at which stage in the process it went wrong.

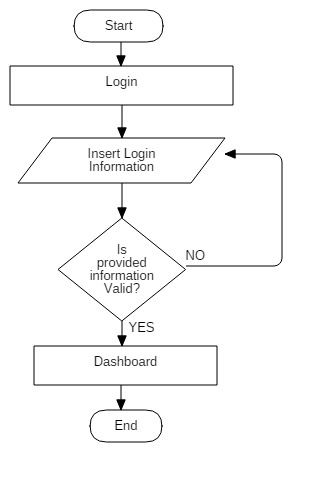
### **Notation used**



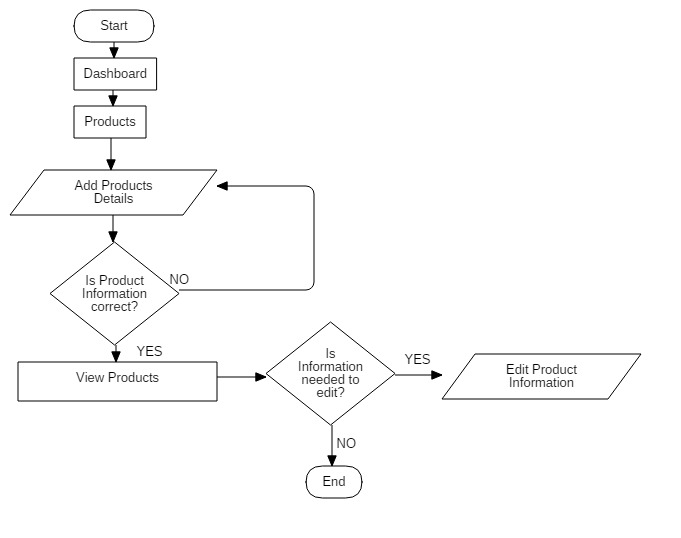
### **Actual Flow Chart**



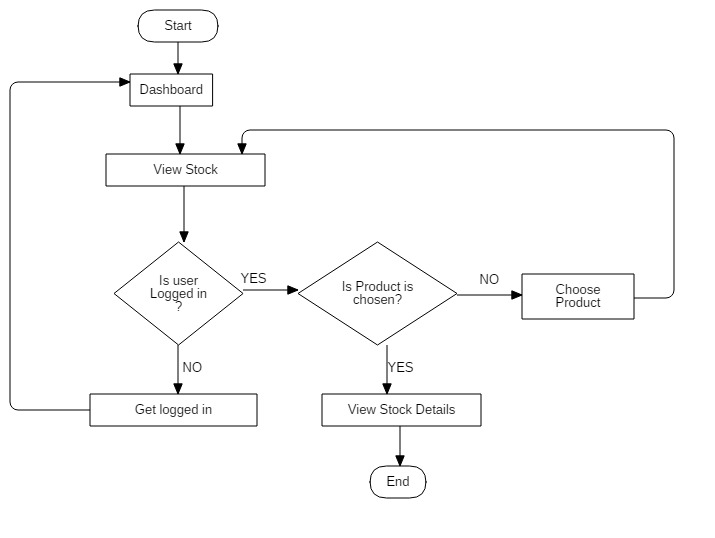
Here the flow of activity to view history is shown in aside flowchart. To view history user need to login.



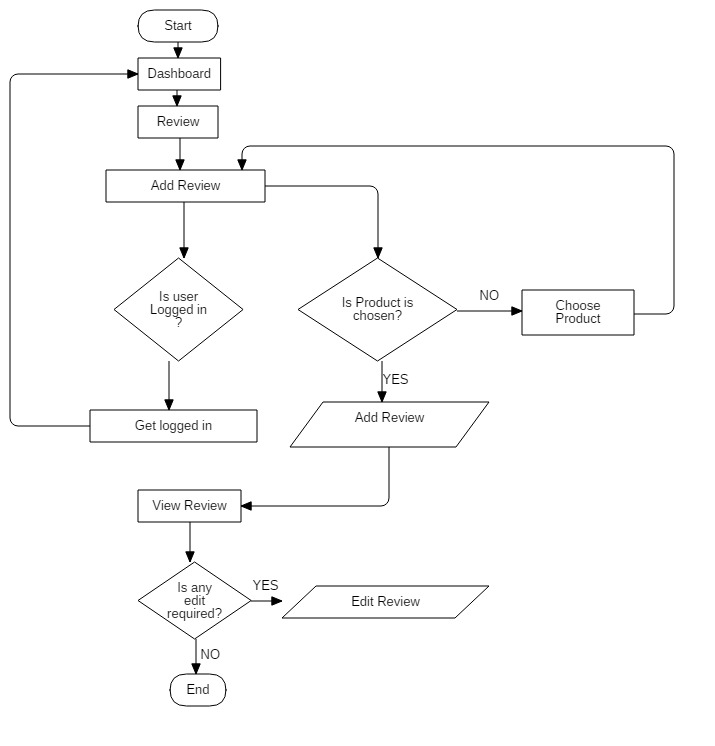
Here the flow of activity to login is shown in aside flowchart. All the valid information is to be entered to login.



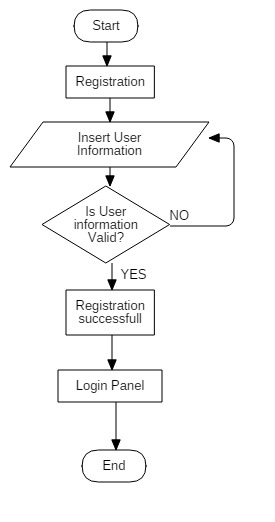
Here the flow of activity to add product details is shown in aside flowchart. Any changes that are to be made can be done.



Here the flow of activity to view stock is shown in aside flowchart. User must done login to view stock. Items are to be selected to view stock information



Here the flow of activity of review is shown in aside flowchart. User must be logged in to add and edit the reviews of products they wished. Just to view reviews login is not compulsory.



Here the flow of activity to register is shown in aside flowchart. All the valid information is to be entered to register.

## **Behavioral Diagram**

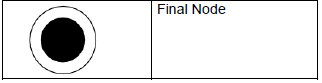
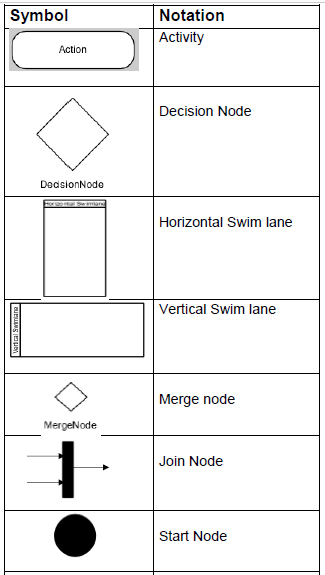
### **2.1 Activity Diagram**

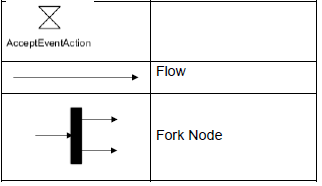
Graphical representation that shows the flow of the activity of the system is called activity diagram. It can describe the steps in a use case diagram. Activities modeled can be sequential and concurrent. In both cases an activity diagram will have a beginning (an initial state) and an end (a final state).

## **Justification**

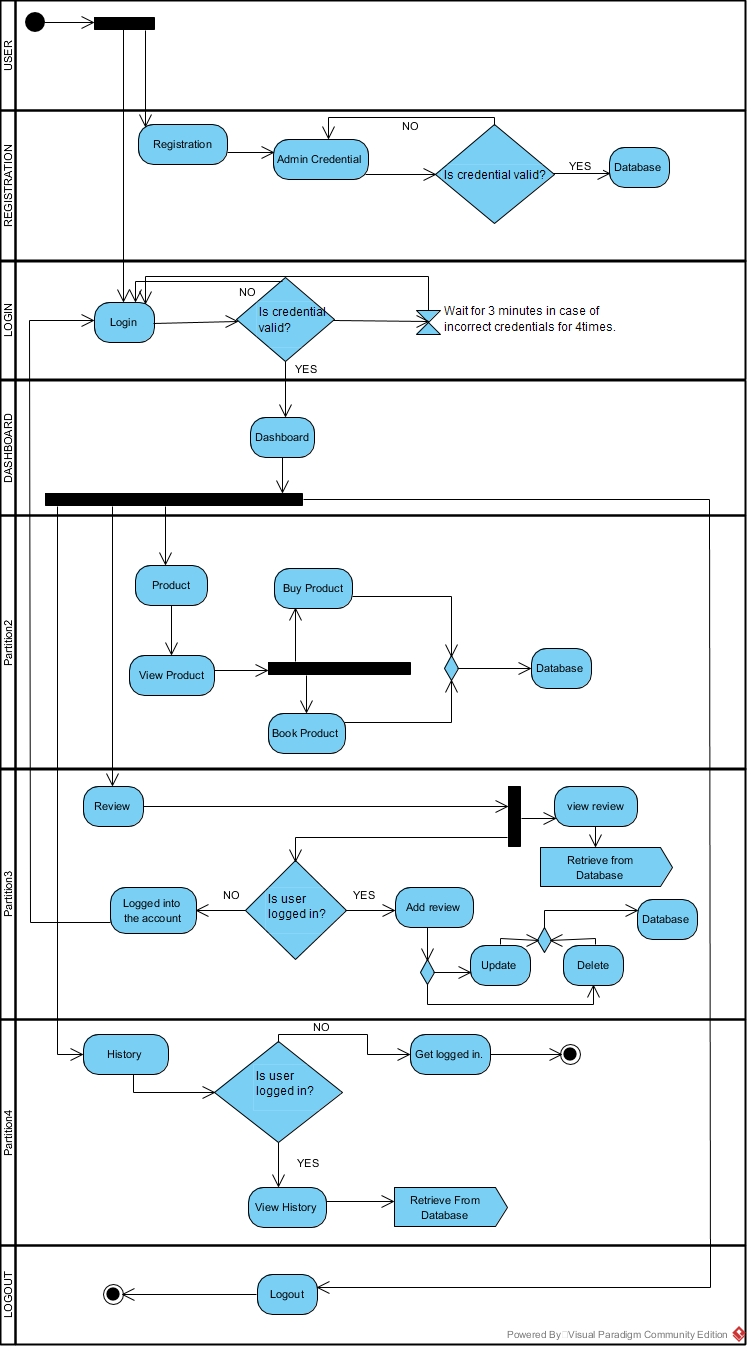
Activity diagram demonstrates the logic of an algorithm and describe the steps performed in a UML use case. It illustrate a business process or workflow between users and the system. Simplify and improve any process by clarifying complicated use cases.

## **Notation**





**Actual Activity Diagram**



**Above** activity is the activity of the user activity the system. Here initially user login in to the system. If user is new to the system user, need to be register first. While login in the system, user need to provide valid username and password then only it get access to the system. If the user attempt for four times with incorrect information then it is block for 3 minutes and only user can try login.

After user is direct to dashboard user can do several functionality of the system. If user wish to buy any cosmetics then user need to navigates to product and then view. Then user can either book or buy the products.

User can add and edit reviews of the product they bought. To do so user must be logged in into the system. However, to view reviews it is not necessary to get login.

History of all the activity is recorded. To view history user must be signed in to their account.

User can logout of the system whenever user want.

The **below** Activity Diagram shows the activity that can performed by the admin user in the system. Activities like :

* Initially like other user admin need to login and if not registered are registered.
* Admin can add products and their details like price, brands and quantity. These data are being stored in the database.
* Admin can have privilege of viewing the reviews of the products only.
* Admin can maintain the stock of the products. He/ she can edit the quantity of the items.
* A sales log is maintain in the system which is only given access to admin to view.

