Integrated Transaction System

The aim of my project, is to develop an automated Transaction system that will be efficient and easy to use by the targeted users of the system who are mainly supermarkets, large vendors in business transaction. The software system will come in handy as a book keeping and point of sale system in their business, making it easier to the store business data E.g. items in stock and help in faster calculations of products bought by buyers. The system will also enhance security as only authorized users will be allowed to access the system.

Procedure

ADMIN

Admin/Manager will login to the system and input his/her username and user password, if the credentials are valid, the system will redirect to a products form page where products on stock can be entered and stored on the database depending on their categories. The categories can be edited only by the admin in the Categories page.

Also, the admin will have access to seller's page where he/she can add sellers authorized to use the system and the amounts transacted by the system.

SELLERS/CASHIERS

Sellers will login to the system and input their username and user password, if they are valid and the same as the ones stored in the database they will be directed to the Sellers page. In the sellers page they will have access to a point of sale system, where they can input products to be sold, quantity and the total amount to be transacted will be displayed. They can also place orders which will be stored I the system.

Functionalities

- **Storing the admin data –** The user of the system data will be stored in separate class to make use of abstraction of the system

  Attributes:

  - ✓ User Name
  - ✓ Password

- **Store Sellers/Cashier Details** – The system will have the capability to store the details of the sellers of the businesses through a class:

  Attributes:

  - ✓ Seller Name
  - ✓ Seller Id

  Behaviors:

  - ✓ Sellers Details

- **Storing products bought by a customer – T**he system will be able to stores goods bought by a customer when the seller inputs the data, this will be a class in the system that will store the data in a database.

  Attributes:

  - ✓ Products Name
  - ✓ Products ID
  - ✓ Products Cost

  Behaviors:

  - ✓ Products Details

- **Calculate items bought –** The system will have the capability of handling calculations of the items bought. In order to implement this, arithmetic calculations will be handled with a specific class by the system.

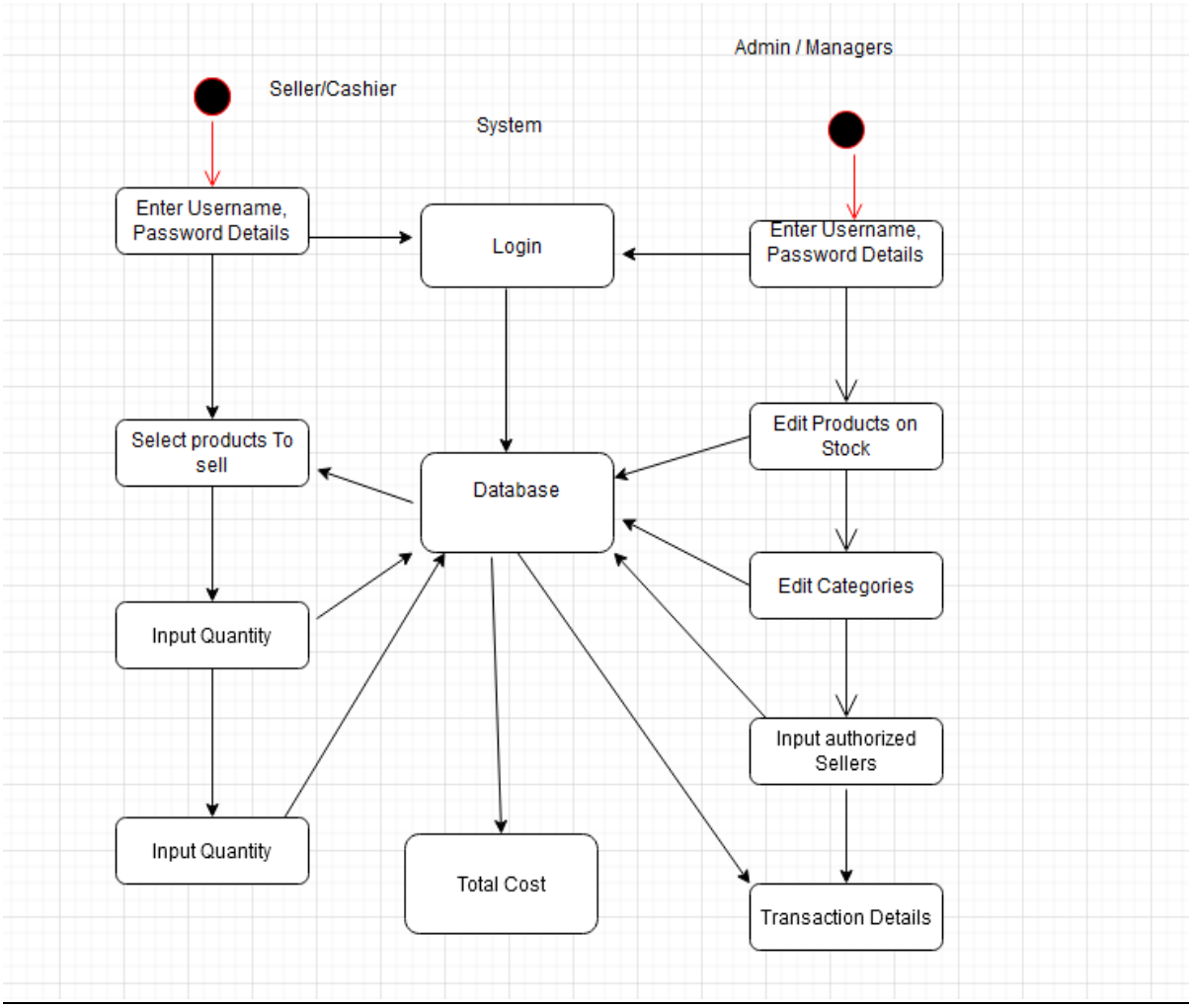
  Attributes:

  - ✓ Products Price
  - ✓ Total price
  - ✓ Quantity of Products

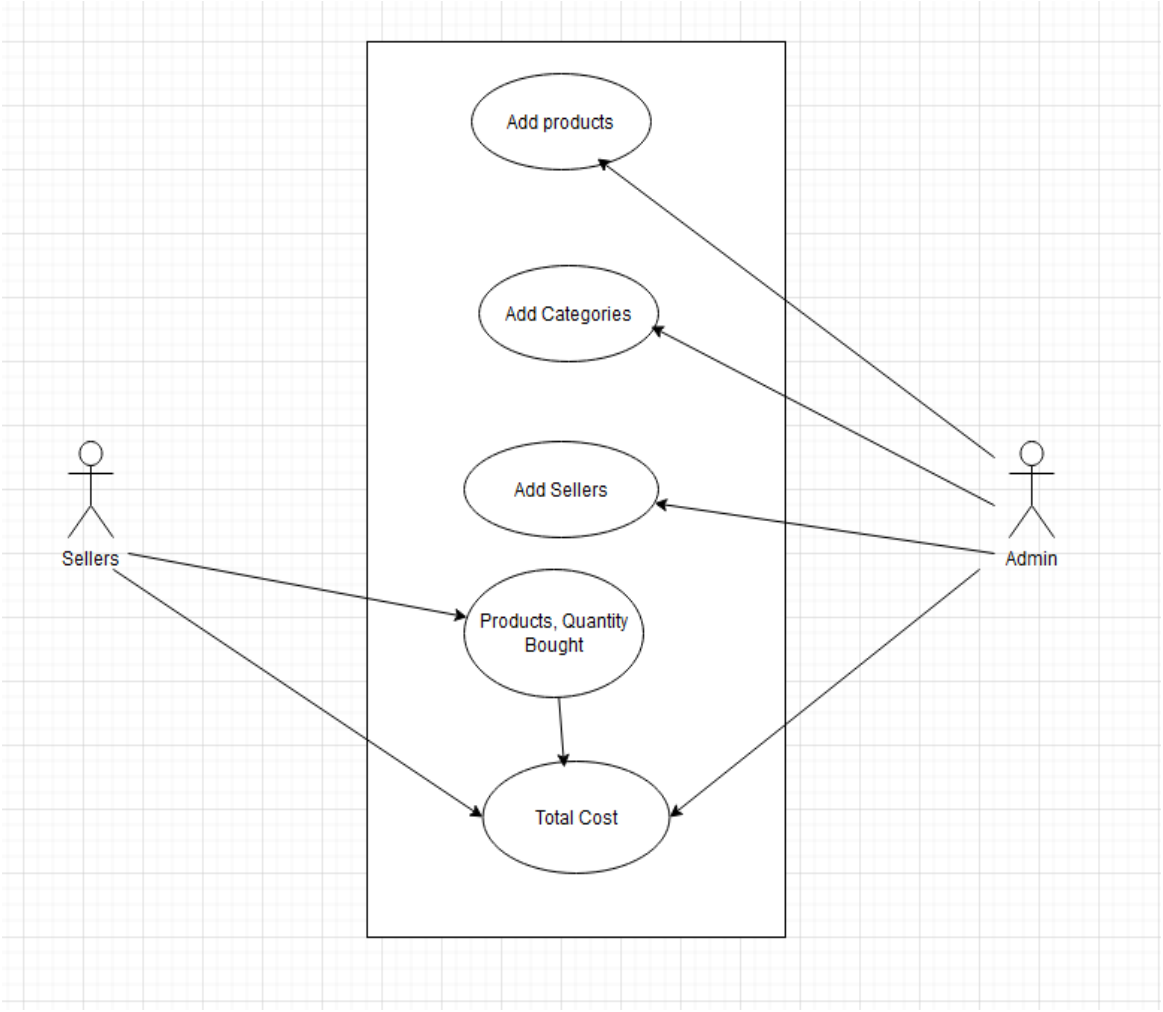
  Behaviors:

  - ✓ Total Products Bought Amount
  - ✓ Quantity Bought

Activity Diagram



Use Case Diagram



Sequence Diagram