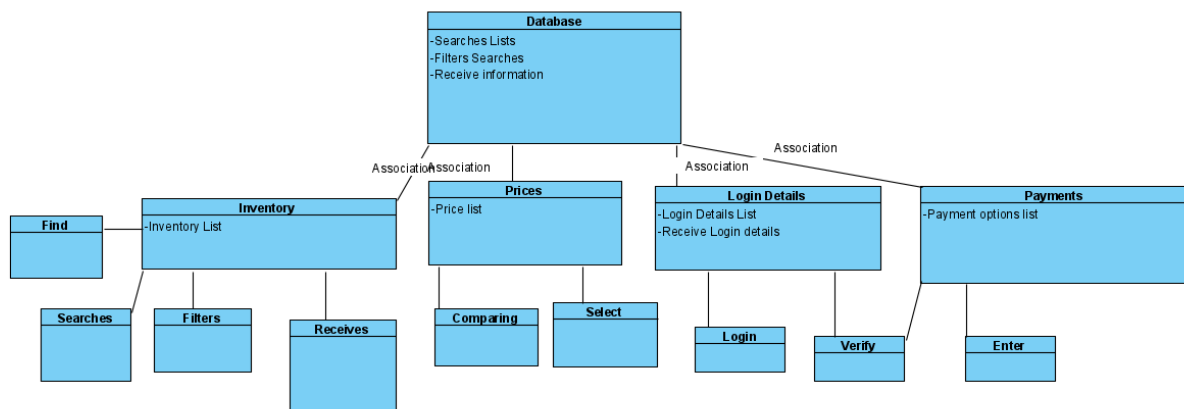


# Designs

## Class Diagram:



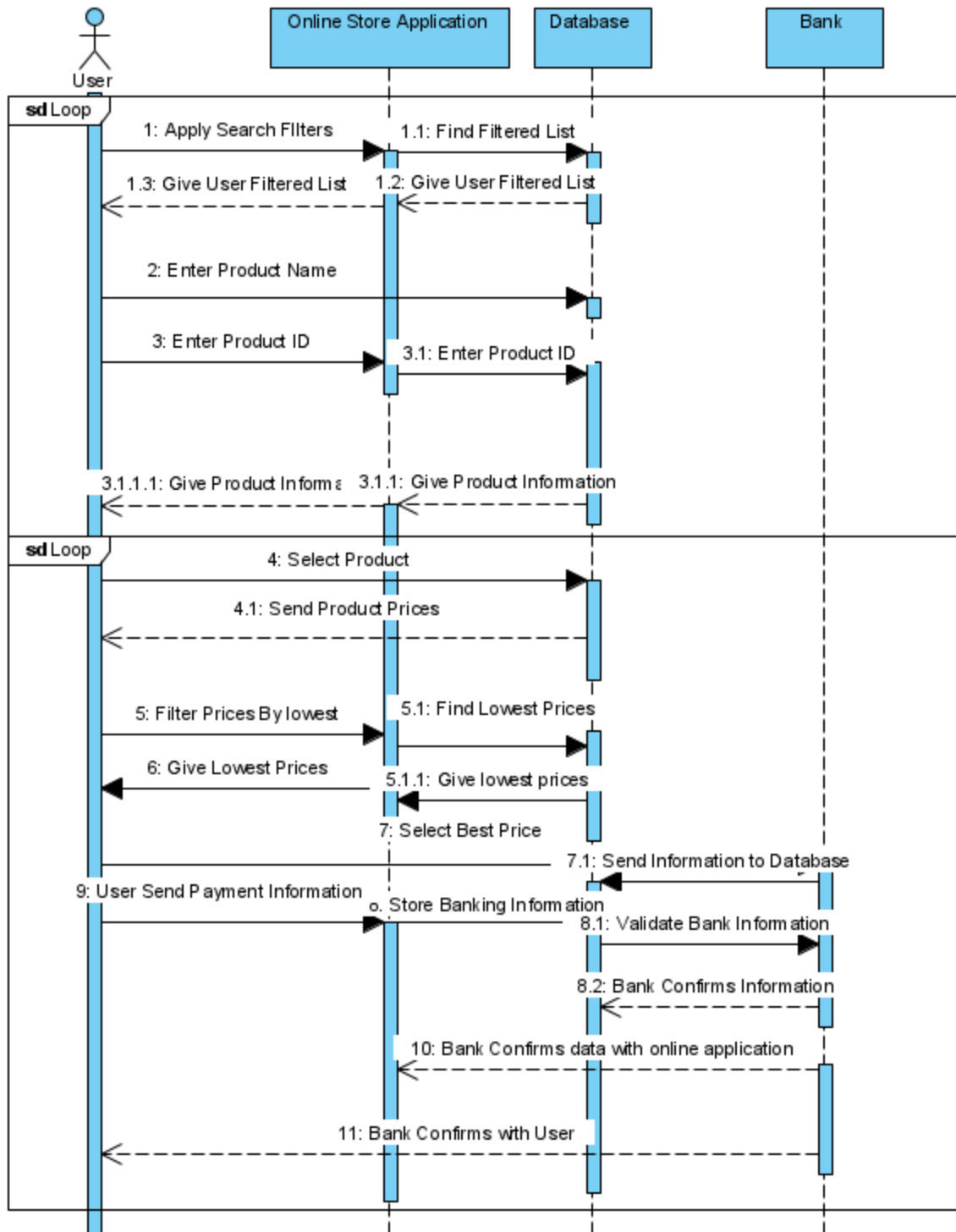
In this diagram, the Database is our superclass that interacts with all the other classes. The information about the inventory database class, prices, login details, and Payments are stored in the database

This tables shows the responsibility of each classes:

Class	Responsibilities
Database	The Web developer creates a database to store all the inventory, login details, product information, prices, and user details
Inventory	The web developer creates a database that stores the inventory. That database stores the amount of the products available and updates

	the list when products are added. It also stores the information about the products
Price	The web developer creates a database that stores the price of the products and any discounts applied to the products.
Login Details	The web developer creates a login database that stores the login details of the user like user ID, username, password, and email ID.
Payments	The web developer provides the users with different payment options and stores the payment details of the user.

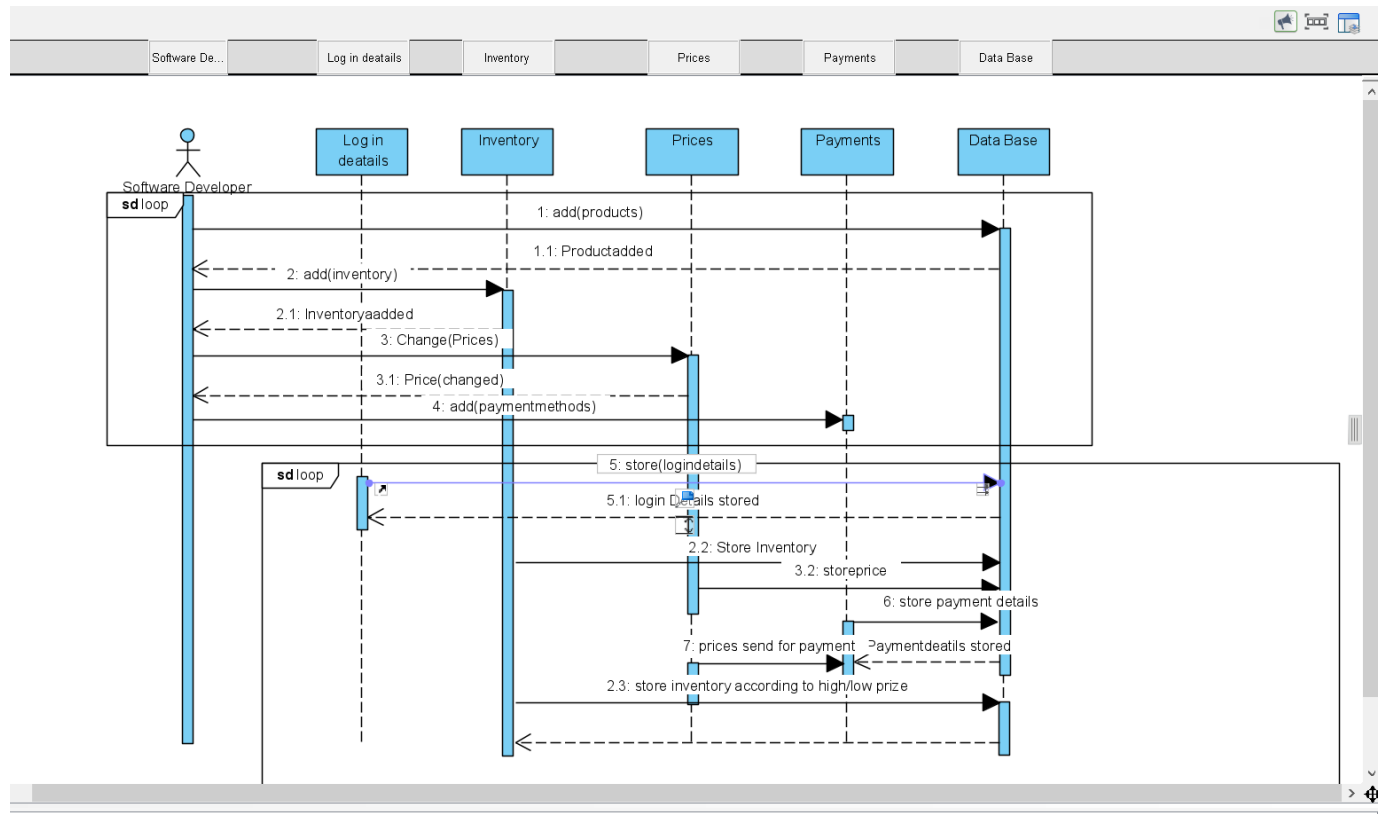
## System-Level Sequence Diagram:



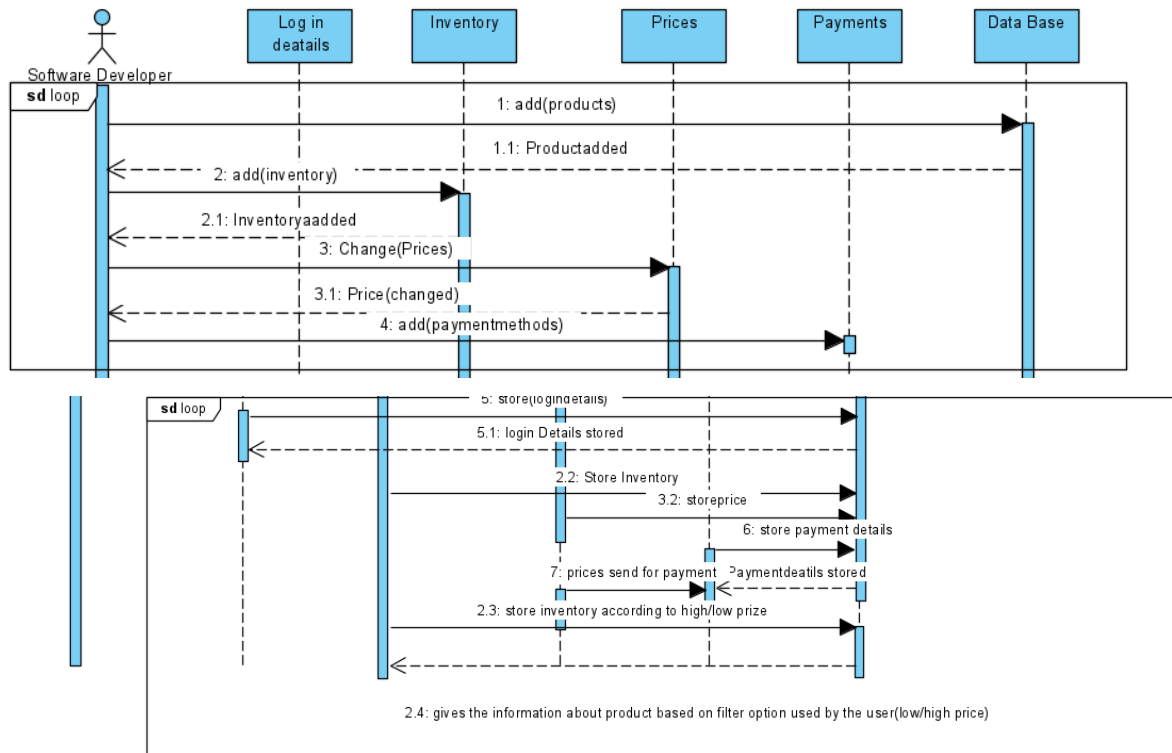
For the system level sequence diagram, we picked the online store application as the system. This was a modified use case 4 from lab 2

where the only actor was the user. It shows how a user is able to search for their product, apply filters, and purchase their product. It all takes place in a loop so that the user can repeat the process. One loop is for searching up the product, and the other loop is for purchasing and applying banking information.

## Class Level Sequence Diagram:

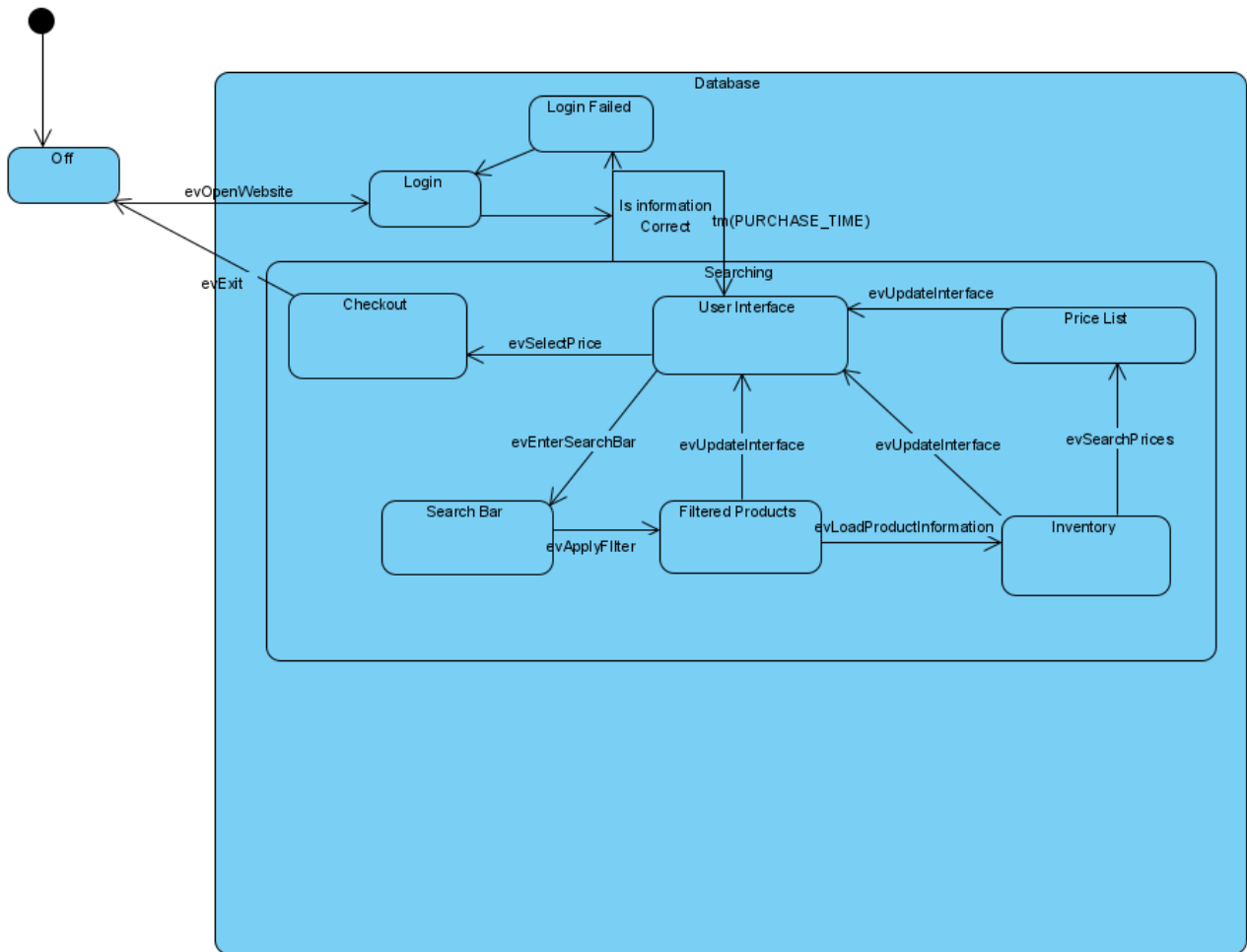


Close up of Class level Sequence Diagram



For the class level sequence diagram, it was the superclass of the database interacting with the other classes. The classes that the superclass interacts with are the inventory, price, log in details, and payment options. This diagram shows more of the process from the beginning to the end of using the website. From logging in to finding the product that you want.

## StateMachine Diagram



In this state machine diagram model, it is the principal class of the database with the subclasses interacting with each other inside of it.