**Ecommerce Vendor Management**

Suppose you are writing a backend for Vendor Management of an e-commerce company. In this project you will write the functionality to add a vendor, login using the credentials of a newly added vendor, add products in the catalog and query the products by name as well as the entire list, and logout.

You are provided with a project which contains the boilerplate code which includes the Driver and in-memory database bindings. You have to write the abstractions and implementation of the project.

**Tasks**

Implement abstract classes with abstract methods:

* Products.py; Class name: Products

1. add\_product(product\_name, product\_type, available\_quantity, unit\_price)
2. search\_product\_by\_name(product\_name)
3. get\_all\_products()

* Vendor.py; Class name: Vendor

1. add\_vendor(self, name, username, password)
2. login(self, username, password)
3. logout(self)

Provide the implementation of the above abstract classes, inside the Implementation Package. You are supposed to **Print**all the CRUD operations performed in the implementation class, this will serve as the UI for testing and debugging.

Product DB is a list of lists, User Db is a Dict, and User Session is also a dict. Please go through the Driver code and DB Bindings thoroughly.