MODELS

ORDERS.PY

```
from db connector.db adapter import get db connection
shipping_address):
   def get_order_id(self):
    def get customer id(self):
   def get_order_date(self):
   def get_total_price(self):
   def get shipping address(self):
   def update order info(self, user id=None, order date=None,
               my cursor.execute(sql, para)
                my cursor.execute(sql, para)
```

product.py

```
class Product:
    def __init__ (self, product_id, product_name, description, price,
    quantity_in_stock, product_type):
        self.connection = get_db_connection()
        self.__productId = product_id
        self.__product_name = product_name
        self.__price = price
        self.__quantity_in_stock = quantity_in_stock
        self.__type = product_type

def get_product_name(self):
        return self.__product_name

def get_description(self):
        return self.__description

def get_price(self):
        return self.__price

def get_quantity_in_stock(self):
        return self.__quantity_in_stock

def get_product_type(self):
        return self.__type

def update_product_info(self, product_name=None, description=None, price=None, quantity_in_stock=None, product_type=None):
        try:
```

```
if product type:
```

user.py

```
from db_connector.db_adapter import *
class User:
```

```
nit (self, userid, username, password, role):
def get password(self):
def update user info(self, username=None, password=None, role=None):
           my cursor.execute(sql, para)
```

GAUTAM SHARMA
ORDER_MANAGEMENT_SYSTEM

CUSTOM_EXCEPTION

Custom_exception.py

```
class UserNotFound(Exception):
    def __init__(self, message="User not found"):
        self.message = message
        super().__init__(self.message)

class OrderNotFound(Exception):
    def __init__(self, message="Order not found"):
        self.message = message
        super().__init__(self.message)
```

DB_CONNECTOR

Db_adapter.py

```
import mysql.connection

def get_db_connection():
    config = {
        'user': 'root',
        'password': 'root',
        'host': 'localhost',
        'database': 'omsdb'
    }

    try:
        connection = mysql.connector.connect(**config)
        # print("Connected to the database")
        # print('hello World')
        return connection
    except mysql.connector.Error as err:
        print(f"Error: {err}")
        return None

def get_ids(table_name, id_column_name):
        mydb = get_db_connection()
        my_cursor = mydb.cursor()
        sql = 'SELECT' + id_column_name + ' FROM ' + table_name + ' ORDER BY '
+ id_column_name + ' DESC_LIMIT 1'
    # print(sql)
    my_cursor.execute(sql)
    x = list(my_cursor.fetchone())[0]
    return int(x) + 1
```

SERVICES

Order manager.py

```
from datetime import date

from db_connector.db_adapter import *
from models.orders import Order
```

```
def get all products(self):
            my cursor.execute(sql, para)
quantity in stock, product type):
```

```
para = (get_ids('product', 'productId'), product_name,
description, price, quantity_in_stock, product_type)
              my cursor.execute(sql, para)
    def get user by id(self, user id):
         except UserNotFound as e:
    def get order by id(self, order id):
```

```
my cursor.execute(sql, para)
```

MAIN

Main.py

```
from services.order_manager import OrderManager
from custom_exception.custome_exceptions import UserNotFound, OrderNotFound
class OrderManagement:

    @staticmethod
    def print_menu():
        print("\norder Management System Menu:")
        print("1. Create User")
        print("2. Create Product")
        print("3. Cancel Order")
        print("4. Get All Products")
        print("5. Get Order by User")
        print("6. Exit")

    @staticmethod
    def get user input():
```

```
def create product(order manager):
           product type = input("Enter Product Type
description, price, quantity in stock, product type)
       except UserNotFound as e:
   def get all products(order manager):
       print("\nAll Products:")
           print(f"No orders found for User ID {user id}")
```

```
@staticmethod
def main():
    order_manager = OrderManager()

while True:
    OrderManagement.print_menu()
    choice = OrderManagement.get_user_input()

if choice == "1":
    OrderManagement.create_user(order_manager)
elif choice == "2":
    OrderManagement.create_product(order_manager)
elif choice == "3":
    OrderManagement.cancel_order(order_manager)
elif choice == "4":
    OrderManagement.get_all_products(order_manager)
elif choice == "5":
    OrderManagement.get_order_by_user(order_manager)
elif choice == "6":
    print("Exiting Order Management System.")
    break
else:
    print("Invalid choice. Please enter a number between 1 and
6.")

if __name__ == "__main__":
    OrderManagement.main()
```

output screenshots-

1) Create User-

```
Enter your choice (1-6): 1
Enter User ID: 10
Enter Username: Gavtam
Enter Password: root
Enter Role (Admin/User): user
User Created successfully

Order Management System Menu:
1. Create User
2. Create Product
3. Cancel Order
4. Get All Products
5. Get Order by User
6. Exit
```

2) Create product

```
Order Management System Menu:

1. Create User

2. Create Product

3. Cancel Order

4. Get All Products

5. Get Order by User

6. Exit

Enter your choice (1-6): 2
Enter Admin User ID: 1
Enter Product Name: blackberry
Enter Product Description: phone
Enter Product Price: 1090909
Enter Quantity in Stock: 10
Enter Product Type (Electronics/Clothing): electronics
```

3:Canceling the Order:

```
Order Management System Menu:

1. Create User

2. Create Product

3. Cancel Order

4. Get All Products

5. Get Order by User

6. Exit

Enter your choice (1-6): 3
Enter User ID: 2
Enter Order ID: 1
Order Cancelled successfully
```

4: Get all products:

```
Order Management System Menu:

1. Create User

2. Create Product

3. Cancel Order

4. Get All Products

5. Get Order by User

6. Exit

Enter your choice (1-6): 4

All Products:
Laptop - 1200 - 50 in stock
Coffee Maker - 80 - 30 in stock
Running Shoes - 70 - 100 in stock
Bluetooth Speaker - 50 - 20 in stock
```

5: Get order by user:

```
Enter your choice (1-6): 5
Enter User ID: 77

No orders found for User ID 77
```

6: Exit

```
Order Management System Menu:

1. Create User

2. Create Product

3. Cancel Order

4. Get All Products

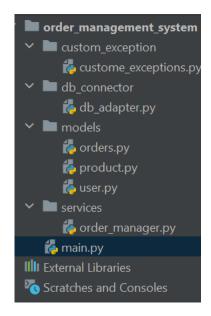
5. Get Order by User

6. Exit

Enter your choice (1-6): 6

Exiting Order Management System.

Process finished with exit code 0
```



7: