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THE OXFORD SENIOR SECONDARY SCHOOL

PROJECT REPORT

ON

E-COMMERCE DATABASE MANAGEMENT

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CERTIFICATE

This is to certify that the project entitled '**E-COMMERCE DATABASE MANAGEMENT**' is a Bonafide work done by **Ritwik Chawda** of Class XII 'A', Session 2024-25 in the partial fulfilment of CBSE AISSCE Examination 2024 and has been carried out under my supervision and guidance.

Roll Number   :

Date of the Examination   :

Signature of the Internal Examiner   :

Signature of the External Examiner   :

Signature of the Principal   :

ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my teacher S. Sharadha as well as Ms. Mala Banerjee,

Principal, who gave me the excellent opportunity to do this wonderful project on the topic 'E**- Commerce Database**

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limited time frame.

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Ritwik Chawda.

Class-XII

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INTRODUCTION

This project automates an E-commerce Database Management System, offering users three different search options to find and place orders for products.

The first option allows users to search through various categories of products, such as smartphones, clothes, groceries, etc. Once a category is chosen, all available products within that category is displayed.

The second option enables users to browse through all available products. They can explore different types of products and make their selection from there.

The third option involves searching through various brands. Users can view all available brands and select a particular one. Upon choosing a brand, all products available from that brand are displayed.

Finally, users can place orders for their chosen products. When an order is placed, the product details are added to the order table in the database, including the transaction ID (assigned to each transaction), product ID, product name, dispatch date, and customer contact details. Additionally, the quantity of the ordered product is reduced by 1 in the main table.

PURPOSE OF THIS PROJECT

This project intends to furnish the user with an interface that is facile in its operation and efficacious in its execution. Additionally, it aids the e-commerce enterprise in the vigilance of its product stock and the transactions conducted therein.

SOME IMPORTANT TERMS

● MySql Database

● Interfacing MySql with python

● MySql connector

● Functions in python

HARDWARE AND SOFTWARE REQUIRED

- ●<u>HARDWARE</u>

Processor: Intel(R) Core(TM) i5-10505 CPU @

Processor Speed: 3.20 GHz

RAM: 2 GB or more

Hard Disk: 512 GB

- ● <u>SOFTWARE</u>

PYTHON (latest version)

Visual Studio Code

MySQL Python Connector

SOURCE CODE:

```python
import mysql.connector # type: ignore
import time


def curdate():
    date = str(time.localtime()[0]) + "-" +
str(time.localtime()[1]) + "-" +
str(time.localtime()[2])
    return date


obj = mysql.connector.connect(host="localhost",
user="root", password="Comp@123", database="project")
curobj = obj.cursor()


def category():
    print("****Categories available are:**** \n")
    a = "select distinct CATEGORY from main_table"
    curobj.execute(a)
    fetch = curobj.fetchall()
    for i in fetch:
        print(i[0])
    print("\n")
    inpCategory = input("Enter your category: ")
    print("\n")
    print("We have the following", inpCategory, ":")
    print("\n")
    b = "select PRODUCT_NAME,PRICE from main_table
```

```python
where CATEGORY='{}'".format(inpCategory)
    curobj.execute(b)
    fetch = curobj.fetchall()
    for i in fetch:
        print(i[0], "~~~~~~~~~~~~", "PRICE: ", i[1])
    print("~~~~~~~~~~~~~~~~~~~~~X~~~~~~~~~~~~~~~~~~~")


def product():
    a = "select PRODUCT_NAME,PRICE from main_table"
    curobj.execute(a)
    fetch = curobj.fetchall()
    obj.commit()
    for i in fetch:
        print(i[0], "~~~~~~~~~~~~", "PRICE: ", i[1])
    print("~~~~~~~~~~~~~~~~~~~~~X~~~~~~~~~~~~~~~~~~~")


def brand():
    print("********** Brands available are : 
*********\n ")
    a = "SELECT DISTINCT brand_name from main_table"
    curobj.execute(a)
    fetch = curobj.fetchall()
    for i in fetch:
        print(i[0])
    print('\n')
    inpBrand = input("What brand are you looking 
for?")
    print('\n')
    print("We have the following products available 
from", inpBrand, ":")
    print('\n')
    b = "select PRODUCT_NAME , PRICE from main_table 
where BRAND_NAME = '{}'".format(inpBrand)
    curobj.execute(b)
    fetch = curobj.fetchall()
    for i in fetch:
```

```python
        print(i[0], "~~~~~~~~~~", "PRICE :", i[1])

print("~~~~~~~~~~~~~~~~~~~~~X~~~~~~~~~~~~~~~~~~~~~")

def order():
    while True:
        inpContact = input("Enter your 10-digit phone
number: ")
        if len(inpContact) == 10 and
inpContact.isdigit():
            break
        else:
            print("Invalid phone number! Please enter
a 10-digit phone number.")

    inpOrder = input("What do you want to order? ")
    qty = "select QUANTITY from main_table where
PRODUCT_NAME='{}'".format(inpOrder)
    curobj.execute(qty)
    fetch = curobj.fetchall()
    if fetch == 0:
        print("OUT OF STOCK!!!")
    else:
        product_id = "select PRODUCT_ID from
main_table where PRODUCT_NAME='{}'".format(inpOrder)
        curobj.execute(product_id)
        fetch1 = curobj.fetchall()
        # For subtracting from main table:
        a = "update main_table set QUANTITY =
QUANTITY-{} where PRODUCT_NAME='{}'".format(1,
inpOrder)
        curobj.execute(a)
        obj.commit()
        # For adding details into order table:
        c = "insert into order_table(PRODUCT_ID,
PRODUCT_NAME, DATE_OF_DISPATCH,
```

```python
CONTACT_DETAILS_OF_CUSTOMER)
values({},'{}','{}',{})".format(
            fetch1[0][0], inpOrder, curdate(),
inpContact)
        curobj.execute(c)
        obj.commit()
        print("Your order has been placed.")


while True:
    print("WELCOME TO E-SHOP :) \n")
    print("Press 1 if you are looking for a category.
")
    print("Press 2 if you are looking for a product.
")
    print("Press 3 if you are looking for a brand. ")
    print("Press 4 if you want to place an order.")
    print("Press 5 if you want to Exit. \n")
    inpint = int(input("Enter your number: "))
    print("\n")
    if inpint == 1:
        category()
    elif inpint == 2:
        product()
    elif inpint == 3:
        brand()
    elif inpint == 4:
        order()
    elif inpint == 5:
        print("Successfully Exited!!!")
        break
    else:
        print("ERROR!!!")
        print("Check your number.")
```

```
mysql> select * from main_table;
```

PRODUCT_ID	CATEGORY	PRODUCT_NAME	QUANTITY	SELLER_NAME	PRICE	BRAND_NAME
100	Smartphones	Vivo V12	-1	Vivo PVT.LTd	20000	VIVO
101	Smartphones	Vivo V10_Pro	20	Vivo PVT.LTd	18000	VIVO
102	Smartphones	Vivo Z12	10	Vivo PVT.LTd	47000	VIVO
103	Smartphones	Iphone A10	46	Apple PVT.LTd	15000	APPLE
104	Smartphones	Iphone X11	45	Apple PVT.LTd	50000	APPLE
105	Smartphones	Iphone Z15_PLUS	34	Apple PVT.LTd	37880	APPLE
106	Smartphones	Infinix S17_LITE	27	Infinix PVT.LTd	27580	INFINIX
107	Smartphones	Infinix X229	16	Infinix PVT.LTd	67890	INFINIX
108	Smartphones	Infinix K17	19	Infinix PVT.LTd	17000	INFINIX
109	TABLETS	Realme K19	12	Realme PVT.LTd	21000	REALME
110	TABLETS	Realme G7	12	Realme PVT.LTd	34000	REALME
111	Television	LG I20	57	LG PVT.LTd	30000	LG
112	Television	Sony A11	23	Sony PVT.LTd	35000	Sony
113	Television	Sony A11_Pro_Plus	23	Sony PVT.LTd	40000	SONY
114	Television	Micromax B12	23	Micromax PVT.LTd	40000	SONY
115	Clothes	Mens_T-Shirt_S	25	Zara Clothings	1300	MICROMAX
116	Clothes	Mens_Sweat-Shirt_S	36	Zara Clothings	260	ZARA
117	Clothes	Women_Saree	43	Zara Clothings	750	ZARA
118	Clothes	Children_Shirts_Pants	32	Tim Clothings	657	TIM
119	Clothes	Women_Leggings_L	48	Tim Clothings	1570	TIM
120	Clothes	Women_Salwar_Kameez_XL	56	Rajesh Clothings	1570	RAJESH
121	Clothes	Women_Jeans_M	37	Rajesh Clothings	2050	RAJESH
122	Shoes_Footwears	Nike Canvas_Shoes	56	Nike Shoes and Footwears	670	NIKE
123	Shoes_Footwears	Nike Sports_Shoes	44	Nike Shoes and Footwears	569	NIKE
124	Shoes_Footwears	Addidas Sports_Shoes	37	Addidas Shoes and Footwears	789	ADDIDAS
125	Shoes_Footwears	Addidas Canvas_Shoes	76	Addidas Shoes and Footwears	789	ADDIDAS
126	Shoes_Footwears	Addidas Footwears	50	Addidas Shoes and Footwears	300	ADDIDAS
127	Shoes_Footwears	Nike Footwears	30	Nike Shoes and Footwears	360	NIKE
128	Shoes_Footwears	Bata Footwears	40	Bata Shoes and Footwears	200	BATA
129	Shoes_Footwears	Bata Canvas_Shoes	56	Bata Shoes and Footwears	490	BATA
130	Shoes_Footwears	Bata Sports_Shoes	56	Bata Shoes and Footwears	670	BATA
131	Grocery	Maggi_Noodles	68	Maggi PVT.LTd	10	Maggi
132	Grocery	Yippe_Noodles	50	Yippe PVT.LTd	10	Yippe
133	Grocery	Surfexl_Detergent	65	Surfexl PVT.LTd	20	SURFEXL
134	Grocery	Nirma_Detergent	78	Nirma PVT.LTd	10	NIRMA
135	Grocery	Bikaner_Bhujia	43	Bikaner PVT.LTd	50	BIKANER
136	Grocery	Haldiram_Bhujia	20	Haldiram PVT.LTd	50	HALDIRAM
137	Games	Dragon_Ball_Kakkarot	36	Bandai Games	140	BANDAI
138	Games	Dragon_Seiya	36	Bandai Games	148	BANDAI
139	Games	Call_Of_Duty	47	Playstation Games	120	Playstation
140	Games	Dota	50	Playstation Games	150	Playstation

```
41 rows in set (0.00 sec)
```

```
mysql> select * from order_table;
+---------------+------------+--------------+-----------------+------------------------------+
| TRANSACION_ID | PRODUCT_ID | PRODUCT_NAME | DATE_OF_DISPATCH | CONTACT_DETAILS_OF_CUSTOMER |
+---------------+------------+--------------+-----------------+------------------------------+
|             1 |        100 | vivo v12     | 2023-02-03      |                   1234567890 |
|             2 |        104 | iphone x11   | 2023-02-03      |                   1234567890 |
+---------------+------------+--------------+-----------------+------------------------------+
2 rows in set (0.00 sec)
```

OUTPUT :

WELCOME TO E-SHOP :)

Press 1 if you are looking for a category.
Press 2 if you are looking for a product.
Press 3 if you are looking for a brand.
Press 4 if you want to place an order.

Enter your number: 1

***********Catagories available are: **************

Smartphones
TABLETS
Television
Clothes
Shoes_Footwears
Grocery
Games

Enter your category:

Enter your category: smartphones

We have the following smartphones :

Vivo V12   ------------   PRICE: 20000
Vivo V10_Pro -------------   PRICE: 18000
Vivo Z12 -------------   PRICE: 47000
Iphone A10 -------------   PRICE: 15000
Iphone X11 -------------   PRICE: 50000
Iphone Z15_PLUS -------------   PRICE: 37880
Infinix S17_LITE -------------   PRICE: 27580
Infinix XZ29 -------------   PRICE: 67890
Infinix K17 -------------   PRICE: 17000
------------------------------X-------------------------------------
WELCOME TO E-SHOP :)

Press 1 if you are looking for a category.
Press 2 if you are looking for a product.
Press 3 if you are looking for a brand.
Press 4 if you want to place an order.

Enter your number: 2

Vivo V12 ------------- PRICE: 20000
Vivo V10_Pro ------------- PRICE: 18000
Vivo Z12 ------------- PRICE: 47000
Iphone A10 ------------- PRICE: 15000
Iphone X11 ------------- PRICE: 50000
Iphone Z15_PLUS ------------- PRICE: 37880
Infinix S17_LITE ------------- PRICE: 27580
Infinix XZ29 ------------- PRICE: 67890
Infinix K17 ------------- PRICE: 17000
Realme K19 ------------- PRICE: 21000
Realme G7 ------------- PRICE: 34000
LG I20 ------------- PRICE: 30000
Sony A11 ------------- PRICE: 35000
Sony A11_Pro_Plus ------------- PRICE: 40000
Micromax B12 ------------- PRICE: 40000
Mens_T-Shirt_S ------------- PRICE: 1300
Mens_Sweat-Shirt_S ------------- PRICE: 260
Women_Saree ------------- PRICE: 750
Children_Shirts_Pants ------------- PRICE: 657
Women_Leggings_L ------------- PRICE: 1570
Women_Salwar_Kameez_XL ------------- PRICE: 1570
Women_Jeans_M ------------- PRICE: 2050
Nike Canvas_Shoes ------------- PRICE: 670
Nike Sports_Shoes ------------- PRICE: 569
Addidas Sports_Shoes ------------- PRICE: 789

```
Addidas Canvas_Shoes   -------------   PRICE:  789
Addidas Footwears    -------------   PRICE:  300
Nike Footwears    -------------    PRICE:  360
Bata Footwears    -------------   PRICE:  200
Bata Canvas_Shoes    -------------    PRICE:  490
Bata Sports_Shoes    -------------    PRICE:  670
Maggi_Noodles    -------------    PRICE:  10
Yippe_Noodles    -------------    PRICE:  10
Surfexl_Detergent    -------------    PRICE:  20
Nirma_Detergent    -------------    PRICE:  10
Bikaner_Bhujia    -------------    PRICE:  50
Haldiram_Bhujia    -------------    PRICE:  50
Dragon_Ball_Kakkarot    -------------    PRICE:   140
Dragon_Seiya    -------------    PRICE:  148
Call_Of_Duty    -------------    PRICE:  120
Dota    -------------    PRICE:  150
------------------------------X------------------------------------
                              -
```

```
WELCOME TO E-SHOP :)

Press 1 if you are looking for a category.
Press 2 if you are looking for a product.
Press 3 if you are looking for a brand.
Press 4 if you want to place an order.

Enter your number: 3


***********Brands available are: **************

VIVO
APPLE
INFINIX
REALME
LG
Sony
MICROMAX
ZARA
TIM
RAJESH
NIKE
ADDIDAS
BATA
Maggi
Yippe
SURFEXL
NIRMA
BIKANER
HALDIRAM
BANDAI
Playstation


What brand are you looking for?:
```

```
What brand are you looking for?: vivo


We have the following available products from  vivo :


Vivo V12   -------------   PRICE:  20000
Vivo V10_Pro   -------------   PRICE:  18000
Vivo Z12   -------------   PRICE:  47000
--------------------------------X----------------------------------------
WELCOME TO E-SHOP :)

Press 1 if you are looking for a category.
Press 2 if you are looking for a product.
Press 3 if you are looking for a brand.
Press 4 if you want to place an order.

Enter your number: 4



Enter your 10-digit phone number: 9436123456
What do you want to order? vivo v12
Your order has been placed.
```

REFERENCES/BIBLIOGRAPHY

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