

# **KENDRIYA VIDYALAYA NO.2 , ITANAGAR , ARUNACHAL PRADESH**



## **C.S PROJECT PORTFOLIO**

### **TOPIC – E-COMMERCE DATABASE MANAGEMENT SYSTEM**

**SUBMITTED BY:**

**SANKET CHAKRABORTY**

**XII 'A'**

**ROLL NO. – 28**

**SUBMITTED TO:**

**SAROJ K. MISRA SIR**

**PGT ( CS )**

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## **C.S PROJECT PORTFOLIO**

### **TOPIC – E-COMMERCE DATABASE MANAGEMENT SYSTEM**

#### **SUBMITTED BY:**

**AMAN KUMAR SINGH**

**XII 'A'**

**ROLL NO. – 28**

#### **SUBMITTED TO:**

**SAROJ K. MISRA SIR**

**PGT ( CS )**

## ACKNOWLEDGEMENT

It is my pleasure that I acknowledge my sincere gratitude to our teacher **MR. S.K. MISRA** who taught and undertook the responsibility of teaching the subject computer science. I have greatly benefited from his classes. I would like to express my sincere appreciation for all the other students of my batch and the good times that we all shared together. Finally, I would like to thank our principal **K.R. Meena** who has always been a source of inspiration.

## CERTIFICATE

This is to certify that **SANKET CHAKRABORTY**, of class XII 'A' Kendriya Vidyalaya No.2 Itanagar, Arunachal Pradesh has done project on

### **E-COMMERCE DATABASE MANAGEMENT SYSTEM**

under the supervision of **Saroj K.Misra**. I have taken interest and have shown at most sincerity in completion of this project. I certify this project to our expectation and as per guidelines issued by CBSE, NEW DELHI.

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***INTERNAL EXAMINER***

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***EXTERNAL EXAMINER***

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***PRINCIPAL***

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*INTERNAL EXAMINER*

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# HARDWARE AND SOFTWARE REQUIRED

- HARDWARE

PC

MOBILE PHONE

- SOFTWARE

PYTHON (latest version)

MYSql Python Connector

# INTRODUCTION

This project automates the **E – COMMERCE DATABASE MANAGEMENT SYSTEM** which gives the user *three different options* through which they can search for the product of their choice, and finally place their orders.

The *first option* is to search through various *catagories* of products, for e.g.

Smartphones, Clothes, Groceries, etc.

The user can choose their category and they will be shown all the products available in that particular category.

The *second option* is to take a look at *all the products available*. The user can choose to take a look all the different types of products available and choose their product from there.

The *third option* is to search through the various *brands* available. The user can choose to take a look at all the brands available and choose a particular brand. On choosing the particular brand the user will be shown all the products that are available from that particular brand.

Lastly, the user can place an order of their product of choice. On placing the order of a



particular product, that product is added into the *order\_table* in the database with various other details like the transaction ID (which is allotted to every transaction that has been made), product ID, product name, date of dispatch and the contact details of the customer.

Also the quantity of the product which has been ordered is reduced by 1 from the *main\_table*.

### PURPOSE OF THIS PROJECT

The purpose of this project is to provide an interface to the user which is easy to use and efficient.

It also helps the e-commerce company to keep a track of the products available , and the transactions which are being made.

### SOME IMPORTANT TERMS

- MySQL Database
- Interfacing MySQL with python
  - MySQL connector
  - Functions in python



```
import mysql.connector
obj=mysql.connector.connect(host="localhost", user="root", password="admin", database="main_project")
curobj=obj.cursor()
```

```
def category():
    print("*****Catagories 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 where CATEGORY='{ }'.format(inpCategory)
    curobj.execute(b)
    fetchr=curobj.fetchall()
    for i in fetchr:
        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 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 available products from ",inpBrand, ":")
    print("\n")
    b="select PRODUCT_NAME,PRICE from main_table where BRAND_NAME='{}'.format(inpBrand)
    curobj.execute(b)
    fetchr=curobj.fetchall()
    for i in fetchr:
        print(i[0], " ..... ", "PRICE: ",i[1])

    print(".....X.....")

```

```

def order():
    inpContact=int(input("Enter your 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,CONTACT_DETAILS_OF_CUSTOMER, DATE_OF_DISPATCH) values({},{};{};{}).format(fetch1[0][0],inpOrder,inpContact,curdate())
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. \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()
    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 XZ29	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	28	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;
```

TRANSACTION_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)
```

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

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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

- Class 11 Book (Sumitra Arora python)
- Class12 Book( Sumitra Arora python)
- LINKS:  
<https://google.com>