A STUDY ON

ONLINE DEPARTMENTAL STORE

A Project Report submitted to Department of Computer Science

International Indian School - Jeddah

for the AISSC Practical Examination

Conducted by Central Board of Secondary Education New Delhi

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Submitted to

DEPARTMENT OF COMPUTER SCIENCE

INTERNATIONAL INDIAN SCHOOL – JEDDAH

March - 2023

DECLARATION

I, Rayyan Ali of XII B5 , Roll No. 19,

do hereby declare that the Project “ONLINE DEPARTMENTAL STORE” is a bonafide work done by my group

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under the supervision of Mr. Qurban Ahmad Khan (Department of Computer Science),

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For the AISSCE Practical Examination 2022 23.

Place: Jeddah

Date:

Signature of the Candidate

ACKNOWLEDGEMENT

First and foremost, we would like to thank God Almighty for His blessings that have been showed upon us for the success of the project. We express our sincere thanks to our Guide Mr. Qurban Ahmad Khan, for his able guidance and support, which he imparted to us in the completion of the project. We also thank our parents for their motivation & support. We must thank our classmates for their timely help & support for completion of this project. Last but not the least we would like to thank all those who had helped directly and indirectly towards the completion of this project.

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TABLE OF CONTENTS

ABSTRACT

The project entitled ‘Online Departmental Store’ is an internet-based system which provides online purchase of our products and goods from anywhere in the world. If a person wants to buy our goods, he would be informed the list of items available in the category, their brands, quantity and the price.

Though normal shopping is easy and known to all of us, it takes time and energy. You may not find all required items in one place and may have to look in multiple shops. You may not trust the quality of goods in shops unknown to them and the variety of goods are limited. Moreover, businessmen have to maintain their shops, warehouses , employees etc. which increases their cost and labor.

Thus, we find the necessity to provide an online shopping service so that all products are globally available round the clock and all necessary actions can be done without you leaving your seat. We have a great variety of high-quality goods on sale at lower price rates.

OBJECTIVE

The purpose of this system is to provide the customer the facility to purchase goods online to ensure maximum satisfaction on both consumer and business sides with least effort and time. The system also provides an interface to the company managers for enlisting themselves with the system, updating the details of the products.

1.Consumers can buy products(Go Shopping).

2. You can view all products and their details

TECHNICAL REQUIREMENT

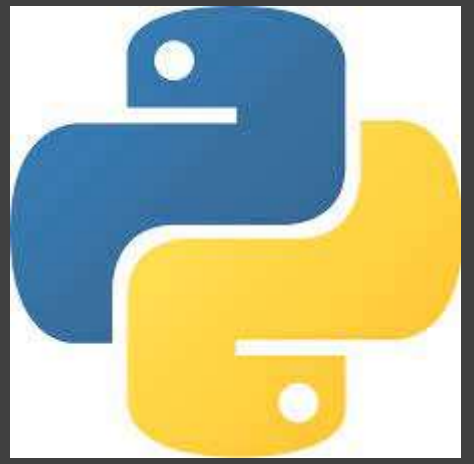
1.Windows operating system-

Various versions are-

i) Windows 7

ii) Windows 10

iii) Windows xp



2.Python 3.8 or higher versions

3.MySQL 8.0 command line

HARDWARE REQUIREMENT

For running our project titled “Online Departmental Store“, following minimum requirement of hardware has to be fulfilled.

- Intel i3 OR HIGHER PROCESSOR.
- 4 GB RAM
- STANDARD KEYBOARD.
- SVGA OR VGA monitor.

SQL TABLES

```
mysql> show tables;
+-----------------+
| Tables_in_eshop |
+-----------------+
| books           |
| departments     |
| electronics     |
| staff           |
| stationery      |
| toys            |
+-----------------+
6 rows in set (0.09 sec)
```

TABLES IN THE DATABSE

```
mysql> DESC BOOKS;
+--------+---------------+------+-----+---------+-------+
| Field  | Type          | Null | Key | Default | Extra |
+--------+---------------+------+-----+---------+-------+
| No     | int           | NO   | PRI | NULL    |       |
| Name   | varchar(50)   | YES  |     | NULL    |       |
| Author | varchar(25)   | YES  |     | NULL    |       |
| Price  | decimal(10,2) | YES  |     | NULL    |       |
+--------+---------------+------+-----+---------+-------+
4 rows in set (0.98 sec)

mysql> SELECT * FROM BOOKS;
+----+------------------------------+--------------------+--------+
| No | Name                         | Author             | Price  |
+----+------------------------------+--------------------+--------+
|  1 | Harry Potter Book Set        | J. K. Rowling      | 345.00 |
|  2 | To Kill A Mockingbird        | Harper Lee         |  89.00 |
|  3 | Great Expectations           | Charles Dickens    |  95.00 |
|  4 | Dragon Rider                 | Cornelia Funke     |  34.00 |
|  5 | Life of Pi                   | Yann Martel        |  40.00 |
|  6 | King Lear                    | William Shakesphere|  33.00 |
|  7 | Mathematics for Class 12     | R. D. Sharma       |  25.00 |
|  8 | Concepts of Physics          | H. C. Verma        |  28.00 |
|  9 | Around the World in 80 Days  | Jules Verne        |  32.00 |
| 10 | The Famous Five              | Enid Blyton        |  56.00 |
| 11 | Jurassic Park                | Michael Crichton   |  23.00 |
| 12 | You Can Win                  | Shiv Khera         |  40.00 |
+----+------------------------------+--------------------+--------+
12 rows in set (0.00 sec)

mysql> _
```

TABLE-BOOK

```
mysql> DESC DEPARTMENTS;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| DeptCode | char(4)     | NO   | PRI | NULL    |       |
| DeptName | varchar(20) | YES  | UNI | NULL    |       |
+----------+-------------+------+-----+---------+-------+
2 rows in set (0.10 sec)

mysql> SELECT * FROM DEPARTMENTS;
+----------+-------------+
| DeptCode | DeptName    |
+----------+-------------+
| D004     | Books       |
| D001     | Electronics |
| D002     | Stationery  |
| D003     | Toys        |
+----------+-------------+
4 rows in set (0.77 sec)

mysql>
```

TABLE-DEPARTMENTS

```
mysql> SELECT * FROM ELECTRONICS;
+----+-----------+----------------+----------------+---------+
| No | Company   | Model          | Category       | Price   |
+----+-----------+----------------+----------------+---------+
|  1 | Apple     | iMac           | Desktop        | 9439.99 |
|  2 | Dell      | XPS 8940       | Desktop        | 5097.05 |
|  3 | HP        | Pavillion      | Desktop        | 6499.50 |
|  4 | Huawei    | Matebook       | Laptop         | 4999.00 |
|  5 | Microsoft | Surface        | Laptop         | 2399.28 |
|  6 | Acer      | Nitro 5        | Laptop         | 4799.00 |
|  7 | Honor     | 7S             | Smartphone     |  349.99 |
|  8 | Samsung   | Galaxy Z Fold3 | Smartphone     | 6399.00 |
|  9 | Apple     | iPhone 11      | Smartphone     | 2299.00 |
| 10 | Huawei    | MatePad T10    | Tablet         | 3124.25 |
| 11 | Lenovo    | M8             | Tablet         |  479.00 |
| 12 | Nokia     | T20            | Tablet         |  499.75 |
| 13 | LG        | NanoCell       | Television     | 3099.00 |
| 14 | Xiaomi    | Mi Smart       | Television     | 1849.00 |
| 15 | Haier     | HQLED Android  | Television     | 2899.00 |
| 16 | Microsoft | XBOX Series S  | Gaming Console | 1349.00 |
| 17 | SONY      | Play Station 5 | Gaming Console | 2799.50 |
| 18 | Nintendo  | Switch-OLED    | Gaming Console | 1999.00 |
| 19 | HP        | Deskjet        | Printer        |  279.20 |
| 20 | Canon     | Pixma          | Printer        |  199.00 |
| 21 | Epson     | Ecotank        | Printer        | 1499.00 |
| 22 | Canon     | EOS            | Camera         | 1579.00 |
| 23 | Nikon     | D5600          | Camera         | 2999.75 |
| 24 | Fuji      | Instax Mini 11 | Camera         |  369.00 |
+----+-----------+----------------+----------------+---------+
24 rows in set (0.86 sec)
```

TABLE-ELECTRONICS

```
mysql> desc staff;
+-------------+----------+------+-----+---------+-------+
| Field       | Type     | Null | Key | Default | Extra |
+-------------+----------+------+-----+---------+-------+
| ID          | char(20) | NO   | PRI | NULL    |       |
| Name        | char(20) | YES  |     | NULL    |       |
| Position    | char(20) | YES  |     | NULL    |       |
| PNo         | char(20) | YES  |     | NULL    |       |
| Email       | char(20) | YES  |     | NULL    |       |
| Address     | char(20) | YES  |     | NULL    |       |
| Nationality | char(20) | YES  |     | NULL    |       |
| DateOfAdm   | date     | YES  |     | NULL    |       |
+-------------+----------+------+-----+---------+-------+
8 rows in set (0.24 sec)

mysql> select * from staff;
+----------+------------------+-----------+----------------+---------------------+-----------------+-------------+-------------+
| ID       | Name             | Position  | PNo            | Email               | Address         | Nationality | DateOfAdm   |
+----------+------------------+-----------+----------------+---------------------+-----------------+-------------+-------------+
| 1A7H8D2K | Ammaar Ahmad Khan | Cofounder | 68783137172532 | kahaakn16@gmail.com | Ohud, Madinah   | Indian      | 2022-07-17 |
| 2R0Y1A9N | Rayyan Ali       | Cofounder | 9126387126456  | alirayyan@gmail.com | Aziziya, Jeddah | Indian      | 2022-07-17 |
+----------+------------------+-----------+----------------+---------------------+-----------------+-------------+-------------+
2 rows in set (0.23 sec)
```

TABLE-STAFF

```
mysql> desc stationery;
+-------+---------------+------+-----+---------+-------+
| Field | Type          | Null | Key | Default | Extra |
+-------+---------------+------+-----+---------+-------+
| No    | int           | NO   | PRI | NULL    |       |
| Brand | varchar(20)   | YES  |     | NULL    |       |
| Item  | varchar(30)   | YES  |     | NULL    |       |
| Price | decimal(10,2) | YES  |     | NULL    |       |
+-------+---------------+------+-----+---------+-------+
4 rows in set (0.05 sec)

mysql> select * from stationery;
+----+---------------+-----------------+-------+
| No | Brand         | Item            | Price |
+----+---------------+-----------------+-------+
|  1 | Reynolds      | Laser Tip Pen   |  4.00 |
|  2 | Nataraj       | 621 Pencil      |  3.00 |
|  3 | ROCO          | 100 Pg Notebook |  5.00 |
|  4 | FABER-CASTELL | Highlighter     |  3.00 |
|  5 | FABER-CASTELL | Scale           |  6.00 |
|  6 | DOMS          | Eraser          |  3.00 |
|  7 | Nataraj       | Sharpener       |  7.00 |
|  8 | Nataraj       | Colour Pencils  |  3.00 |
|  9 | Camlin        | Crayons         |  2.00 |
| 10 | Camlin        | Paint Brushes   |  2.00 |
| 11 | Prima         | A4 Sheet        |  6.00 |
| 12 | ROCO          | Charts          |  7.00 |
| 13 | UHU           | Glue Stick      |  5.00 |
+----+---------------+-----------------+-------+
13 rows in set (0.07 sec)
```

TABLE-STATIONARY

```
mysql> desc toys;
+----------+---------------+------+-----+---------+-------+
| Field    | Type          | Null | Key | Default | Extra |
+----------+---------------+------+-----+---------+-------+
| No       | int           | NO   |     | NULL    |       |
| Brand    | varchar(20)   | YES  |     | NULL    |       |
| Item     | varchar(30)   | YES  |     | NULL    |       |
| Category | varchar(20)   | YES  |     | NULL    |       |
| Price    | decimal(10,2) | YES  |     | NULL    |       |
+----------+---------------+------+-----+---------+-------+
5 rows in set (0.07 sec)

mysql> select * from toys;
+----+-----------+---------------------------+----------------+--------+
| No | Brand     | Item                      | Category       | Price  |
+----+-----------+---------------------------+----------------+--------+
|  1 | Hotwheels | Sharkport Showdown        | Cars           |  59.00 |
|  2 | Matchbox  | 5 Cars Set                | Cars           |  20.00 |
|  3 | Axial     | Dodge Viper RC            | Cars           |  89.00 |
|  4 | Barbie    | Doll House Set            | Dolls          |  45.00 |
|  5 | Barbie    | Dress Up Set              | Dolls          |  23.00 |
|  6 | Hasbro    | MARVEL Avengers Models x5 | Action Figures |  50.00 |
|  7 | LEGO      | Firefighter Set           | Building Blocks | 109.00 |
|  8 | LEGO      | Bricksburg Town Set       | Building Blocks |  99.00 |
|  9 | Hasbro    | JENGA                     | Puzzles        | 129.00 |
| 10 | Hasbro    | Monopoly Game             | Board Games    | 175.00 |
| 11 | MATTEL    | Pictionary Game           | Board Games    | 125.00 |
| 12 | MATTEL    | Rubik's Cube 3x3          | Puzzles        |  79.00 |
| 13 | Hasbro    | Big Ben 3D Puzzle         | Puzzles        | 119.00 |
| 14 | Hasbro    | Chess & Checkers Set      | Board Games    |  30.00 |
+----+-----------+---------------------------+----------------+--------+
14 rows in set (0.18 sec)
```

TABLE-TOYS

PYTHON CODE

```
import pandas as pd
import numpy as np
import mysql.connector as SQL

#Establishing the connectin using connect() method
C=SQL.connect(host='localhost',user='root',passwd='Ammaar123',database='EShop')
if C.is_connected():
    print('Connection secured.')
else:
    print('Could not connect.')

#Creating a cursor object using cursor() method
c=C.cursor()
print("Hello there!")
print("Welcome to EShop, our internet-based shopping platform.")
print()
print("Are you a customer(C) or a staff member(S)?")
U=str(input()).upper()
```

```
if U=='C':
    print("Greetings, dear customer.")
    def customer():
        chk='Y'
        while chk=='Y':
            print("Our departments:")
            Q1='SELECT * FROM DEPARTMENTS ORDER BY DeptCode'
            c.execute(Q1)
            data1=c.fetchall()
            print('Code\t Name')
            print('======================')
            for x in data1:
                print(x[0],'\t',x[1])
                print('----------------------')
            B=str(input("Select a department by entering its code: ")).upper()
            if B=='D001':
                print('Welcome to our electronics department.')
                print('Our products are listed below:')
                print()
```

```
Q2='SELECT * FROM Electronics'
c.execute(Q2)
data2=list(c.fetchall())
for x in data2:
    print('Product No:',x[0])
    print('Company:   ',x[1])
    print('Model:     ',x[2])
    print('Category:  ',x[3])
    print('Price:     ',x[4])
    print()
P = int(input('Select the product you wish to buy by entering its number: '))
print()
n=int(input('How many do you want?' ))
Colours=[]
for x in range(n):
    colour=str(input('Choose the colour of the item: '))
    Colours.append(colour)
print()
print('The details of your chosen product are given below.')
print()
```

```
            for x in data2:
                if P==x[0]:
                    print('Product No:  ',x[0])
                    print('Company:     ',x[1])
                    print('Model:       ',x[2])
                    print('Category:    ',x[3])
                    print('Price/Item:  ',x[4])
                    Price=x[4]
                    TotalPrice=Price*n
                    print('Colour(s):   ',Colours)
                    print('Total price: ',TotalPrice)
                    print()
                    print('Do you confirm details of the product you wish to buy? (Y/N)')
                    _C=str(input()).upper()
                    if _C=='Y':
                        print('Please enter your following necessary details:')
                        N=str(input('Name: '))
                        P=int(input('Contact number: '))
                        E=str(input('Email address: '))
                        Ad=str(input('Address of delivery: '))
```

```
                        M=str(input('Would you like to pay through cash(C) or online(O)? ')).upper()
                        print("Amount to be paid:",TotalPrice)
                        if M=='C':
                            print('Please pay',TotalPrice,'to the deliverer of the goods.')
                        elif M=='O':
                            card=int(input('Enter your payment card number: '))
                            print('Transaction Successful.')
                        print('The item(s) shall be delivered within 48 hours at',Ad,'.')
                        print('We shall keep you updated of the shipment of the goods on your contact
number',P,'and email address',E,'.')
                        print('Thank you for shopping with us,',N,'. We hope to see you soon.')
                    elif _C=='N':
                        print('Dropped')
        elif B=='D002':
            print('Welcome to our stationery department.')
            print('Our products are listed below:')
            print()
            Q2='SELECT * FROM Stationery'
            c.execute(Q2)
            data2=list(c.fetchall())
```

```
for x in data2:
    print('Product No:',x[0])
    print('Brand:     ',x[1])
    print('Item:      ',x[2])
    print('Price:     ',x[3])
    print()
P = int(input('Select the product you wish to buy by entering its number: '))
print()
n=int(input('How many do you want?' ))
Colours=[]
for x in range(n):
    colour=str(input('Choose the colour of the item: '))
    Colours.append(colour)
print()
print('The details of your chosen product are given below.')
print()
for x in data2:
    if P==x[0]:
        print('Product No:',x[0])
        print('Brand:     ',x[1])
```

```
print('Item:      ',x[2])
print('Price/Item:',x[3])
Price=x[3]
TotalPrice=Price*n
print('Colour(s): ',Colours)
print('Total price:',TotalPrice)
print()
print('Do you confirm details of the product you wish to buy? (Y/N)')
_C=str(input()).upper()
if _C=='Y':
    print('Please enter your following necessary details:')
    N=str(input('Name: '))
    P=int(input('Contact number: '))
    E=str(input('Email address: '))
    Ad=str(input('Address of delivery: '))
    M=str(input('Would you like to pay through cash(C) or online(O)? ')).upper()
    print("Amount to be paid:",TotalPrice)
    if M=='C':
        print('Please pay',TotalPrice,'to the deliverer of the goods.')
    elif M=='O':
```

```
                            card=int(input('Enter your payment card number: '))
                            print('Transaction Successful.')
                        print('The item(s) shall be delivered within 48 hours at',Ad,'.')
                        print('We shall keep you updated of the shipment of the goods on your contact
number',P,'and email address',E,'.')
                        print('Thank you for shopping with us,',N,'. We hope to see you soon.')
                    elif _C=='N':
                        print('Dropped')
        elif B=='D003':
            print('Welcome to our toys department.')
            print('Our products are listed below:')
            print()
            Q2='SELECT * FROM Toys'
            c.execute(Q2)
            data2=list(c.fetchall())
            for x in data2:
                print('Product No:',x[0])
                print('Brand:     ',x[1])
                print('Item:      ',x[2])
                print('Category:  ',x[3])
                print('Price:     ',x[4])
```

```
    print()
P = int(input('Select the product you wish to buy by entering its number: '))
print()
n=int(input('How many do you want?' ))
print()
print('The details of your chosen product are given below.')
print()
for x in data2:
    if P==x[0]:
        print('Product No:',x[0])
        print('Brand:     ',x[1])
        print('Item:      ',x[2])
        print('Category:  ',x[3])
        print('Price/Item:  ',x[4])
        Price=x[4]
        TotalPrice=Price*n
        print('Total price: ',TotalPrice)
        print()
        print('Do you confirm details of the product you wish to buy? (Y/N)')
        _C=str(input()).upper()
```

```
                    if _C=='Y':
                        print('Please enter your following necessary details:')
                        N=str(input('Name: '))
                        P=int(input('Contact number: '))
                        E=str(input('Email address: '))
                        Ad=str(input('Address of delivery: '))
                        M=str(input('Would you like to pay through cash(C) or online(O)? ')).upper()
                        print("Amount to be paid:",TotalPrice)
                        if M=='C':
                            print('Please pay',TotalPrice,'to the deliverer of the goods.')
                        elif M=='O':
                            card=int(input('Enter your payment card number: '))
                            print('Transaction Successful.')
                        print('The item(s) shall be delivered within 48 hours at',Ad,'.')
                        print('We shall keep you updated of the shipment of the goods on your contact
number',P,'and email address',E,'.')
                        print('Thank you for shopping with us,',N,'. We hope to see you soon.')
                    elif _C=='N':
                        print('Dropped')
```

```
elif B=='D004':
    print('Welcome to our book department.')
    print('Our products are listed below:')
    print()
    Q2='SELECT * FROM Books'
    c.execute(Q2)
    data2=list(c.fetchall())
    for x in data2:
        print('Product No:',x[0])
        print('Name:      ',x[1])
        print('Author:    ',x[2])
        print('Price:     ',x[3])
        print()
    P = int(input('Select the product you wish to buy by entering its number: '))
    print()
    n=int(input('How many do you want?' ))
    print()
    print('The details of your chosen product are given below.')
    print()
```

```
            for x in data2:
                if P==x[0]:
                    print('Product No:',x[0])
                    print('Name:      ',x[1])
                    print('Author:    ',x[2])
                    print('Price/Item:  ',x[3])
                    Price=x[3]
                    TotalPrice=Price*n
                    print('Total price: ',TotalPrice)
                    print()
                    print('Do you confirm details of the product you wish to buy? (Y/N)')
                    _C=str(input()).upper()
                    if _C=='Y':
                        print('Please enter your following necessary details:')
                        N=str(input('Name: '))
                        P=int(input('Contact number: '))
                        E=str(input('Email address: '))
                        Ad=str(input('Address of delivery: '))
                        M=str(input('Would you like to pay through cash(C) or online(O)? ')).upper()
                        print("Amount to be paid:",TotalPrice)
```

```
                        if M=='C':
                            print('Please pay',TotalPrice,'to the deliverer of the goods.')
                        elif M=='O':
                            card=int(input('Enter your payment card number: '))
                            print('Transaction Successful.')
                        print('The item(s) shall be delivered within 48 hours at',Ad,'.')
                        print('We shall keep you updated of the shipment of the goods on your contact
number',P,'and email address',E,'.')
                        print('Thank you for shopping with us,',N,'. We hope to see you soon.')
                    elif _C=='N':
                        print('Dropped')
        else:
            print('Code',B,'does not exist. Try again.')
            customer()
        X=str(input('Do you wish to continue shopping? (Y/N) ')).upper()
        chk=X
        if X=='N':
            print('Thank you for shopping at EShop. We hope to see you again soon.')
            break
  customer()
```

```
#Staff Services
#Verification
elif U=='S':
    Psd=str(input('Enter the business passcode: '))
    ESP='R19028A'
    if Psd==ESP:
        i=str(input('Enter your staff ID: '))
        d=str(input('Enter your full name: '))
        c.execute("SELECT * FROM STAFF")
        sdata=list(c.fetchall())
        for x in sdata:
            if i==x[0]:
                if d==x[1]:
                    print('Welcome to EShop,',x[1],'.')
                    print("Let's get to work!")
                    print()
                    print("What would you like to do?")
                    print('1. View a table.')
                    print("2. View a table's structure.")
                    print("3. View a chart for sales in each department for year 2021.")
```

```
print()
S=int(input('Enter the service number: '))
#View tables
if S==1:
      print('1. View the tables.')
      print('Here are the tables in this database.')
      print()
      #Showing all tables
      c.execute("SHOW TABLES")
      Bdata1=c.fetchall()
      n=len(Bdata1)
      DL=[]
      for x in Bdata1:
          print(x[0])
          DL.append(x[0])
          print('-----------')
      print()
      N=input('Enter the name of the required table: ')
      if N in DL:
          #Showing the required table
```

```
                        c.execute("SELECT * FROM {}".format(N))
                        '''for table N,
                        colN has column names, Data has all records'''
                        colN=[i[0] for i in c.description]
                        nCol=len(c.description)
                        Data=c.fetchall()
                        print()
                        for x in Data:
                            Records=pd.Series(x,colN)
                            print(Records)
                            print()
                    else:
                        #Wrong table
                        print('Table',N,'is not in the
database.')
                if S==2:
                    #Showing table structure
                    print("2. View a table's structure.")
                    print('Here are the tables in this database.')
                    print()
                    #Showing tablenames
```

```
c.execute("SHOW TABLES")
Bdata1=c.fetchall()
n=len(Bdata1)
DL=[]
for x in Bdata1:
    print(x[0])
    DL.append(x[0])
    print('-----------')
print()
N=input('Enter the name of the required table: ')
if N in DL:
    print('You have selected table',N)
    print()
    #Showing table structure
    c.execute("DESC {}".format(N))
    colN=[i[0] for i in c.description]
    nCol=len(c.description)
    Data=c.fetchall()
    print()
```

```
                            for x in Data:
                                Desc=pd.Series(x,colN)
                                print(Desc)
                                print()
                        else:
                            #Wrong table
                            print('Table',N,'is not in the database.')
                    if S==3:
                        import matplotlib.pyplot as plt
                        Months=['January','February','March','April','May','June','July','August','Septemb
  er','October','November','December']
                        d=pd.read_csv("Sales2021.csv")
                        d.plot(kind='bar',x='Month',title='Sales in year 2021',color=list('rgby'))
                        plt.xlabel='Months'
                        plt.ylabel('Sales')
                        plt.show()
else:
    print('Incorrect choice entered.')
print()
print("THE END")
```

OUTPUT IN DIFFERENT CASES

Case 1: When user is a customer

```
Connection secured.

Hello there!

Welcome to EShop, our internet-based shopping platform.

Are you a customer(C) or a staff member(S)?

c

Greetings, dear customer.

Our departments:

Code      Name

======================

D001      Electronics

----------------------

D002      Stationery

----------------------

D003      Toys

----------------------

D004      Books

----------------------

Select a department by entering its code:
```

Case 2: When the customer selects an existing department code

```
Select a department by entering its code: d002

Welcome to our stationery department.

Our products are listed below:


Product No: 1

Brand:      Reynolds

Item:       Laser Tip Pen

Price:      4.00


Product No: 2

Brand:      Nataraj

Item:       621 Pencil

Price:      3.00


Product No: 3

Brand:      ROCO

Item:       100 Pg Notebook

Price:      5.00
```

Product No: 4

Brand: FABER-CASTELL

Item: Highlighter

Price: 3.00

Product No: 5

Brand: FABER-CASTELL

Item: Scale

Price: 6.00

Product No: 6

Brand: DOMS

Item: Eraser

Price: 3.00

Product No: 7

Brand: Nataraj

Item: Sharpener

Price: 7.00

Product No: 8

Brand: Nataraj

Item: Colour Pencils

Price: 3.00

Product No: 9
Brand: Camlin
Item: Crayons
Price: 2.00

Product No: 10
Brand: Camlin
Item: Paint Brushes
Price: 2.00

Product No: 11
Brand: Prima
Item: A4 Sheet
Price: 6.00

Product No: 12
Brand: ROCO
Item: Charts
Price: 7.00

Product No: 13
Brand: UHU
Item: Glue Stick
Price: 5.00

Select the product you wish to buy by entering its number:

Case 3: When customer selects a product and enters the quantity he wants to buy

```
Select the product you wish to buy by entering its number: 9


How many do you want?3
Choose the colour of the item: Red
Choose the colour of the item: Blue
Choose the colour of the item: Green


The details of your chosen product are given below.


Product No: 9
Brand:      Camlin
Item:       Crayons
Price/Item: 2.00
Colour(s):  ['Red', 'Blue', 'Green']
Total price: 6.00


Do you confirm details of the product you wish to buy? (Y/N)
```

Case 4: When customer confirms the product details and enters his necessary details

```
Do you confirm details of the product you wish to buy? (Y/N)

y

Please enter your following necessary details:

Name: Santosh Yadav

Contact number: 092638495618

Email address: syind@yahoo

Address of delivery: E-10, Nandan Colony, Noida, India

Would you like to pay through cash(C) or online(O)?
```

Case 5: When customer chooses to pay in cash

```
Would you like to pay through cash(C) or online(O)? c

Amount to be paid: 6.00

Please pay 6.00 to the deliverer of the goods.

The item(s) shall be delivered within 48 hours at E-10, Nandan Colony, Noida, India .

We shall keep you updated of the shipment of the goods on your contact number 92638495618 and email address syind@yahoo .

Thank you for shopping with us, Santosh Yadav . We hope to see you soon.

Do you wish to continue shopping? (Y/N)
```

Case 6: When customer chooses to pay online

```
Would you like to pay through cash(C) or online(O)? O

Amount to be paid: 6.00

Enter your payment card number: 273946281199

Transaction Successful.

The item(s) shall be delivered within 48 hours at E-10, Nandan Colony, Noida, India .

We shall keep you updated of the shipment of the goods on your contact number 92638495618 and email address syind@yahoo .

Thank you for shopping with us, Santosh Yadav . We hope to see you soon.

Do you wish to continue shopping? (Y/N)
```

Case 7: When customer opts to shop another item

```
Do you wish to continue shopping? (Y/N) y

Our departments:

Code      Name

======================

D001      Electronics

----------------------

D002      Stationery

----------------------

D003      Toys

----------------------

D004      Books

----------------------

Select a department by entering its code:
```

Case 8: When customer doesn't confirm the details of the product he chose

```
Do you confirm details of the product you wish to buy? (Y/N)
N
Dropped
Do you wish to continue shopping? (Y/N)
```

Case 9: When customer enters a non-existing department code

```
Select a department by entering its code: d005

Code D005 does not exist. Try again.

Our departments:

Code      Name

======================

D001      Electronics

----------------------

D002      Stationery

----------------------

D003      Toys

----------------------

D004      Books

----------------------

Select a department by entering its code:
```

Case 10: When customer wants to end shopping

```
Do you wish to continue shopping? (Y/N) n

Thank you for shopping at EShop. We hope to see you again soon.


THE END
```

Case 4: When user is a staff member, enters the correct password, verifies his details, chooses to view a table and selects a table.

```
Connection secured.
Hello and welcome to EShop, our internet-based shopping platform.

Are you a customer(C) or a staff member(S)?
S
Enter the business passcode: R19028A
Enter your staff ID: 2R0Y1A9N
Enter your full name: Rayyan Ali
Welcome to EShop, Rayyan Ali .
Let's get to work!

What would you like to do?
1. View a table.
2. View a table's structure.
3. View a chart for sales in each department for year 2021.

Enter the service number: 1
1. View the tables.
Here are the tables in this database.

books
-----------
departments
-----------
electronics
-----------
staff
-----------
stationery
-----------
toys
-----------

Enter the name of the required table: staff
```

INPUT

```
ID                      1A7H8D2K
Name          Ammaar Ahmad Khan
Position                Cofounder
PNo             68783137172532
Email        kahaakn16@gmail.com
Address           Ohud, Madinah
Nationality               Indian
DateOfAdm              2022-07-17
dtype: object

ID                      2R0Y1A9N
Name                  Rayyan Ali
Position                Cofounder
PNo             9126387126456
Email        alirayyan@gmail.com
Address          Aziziya, Jeddah
Nationality               Indian
DateOfAdm              2022-07-17
dtype: object

>>>
```

OUTPUT

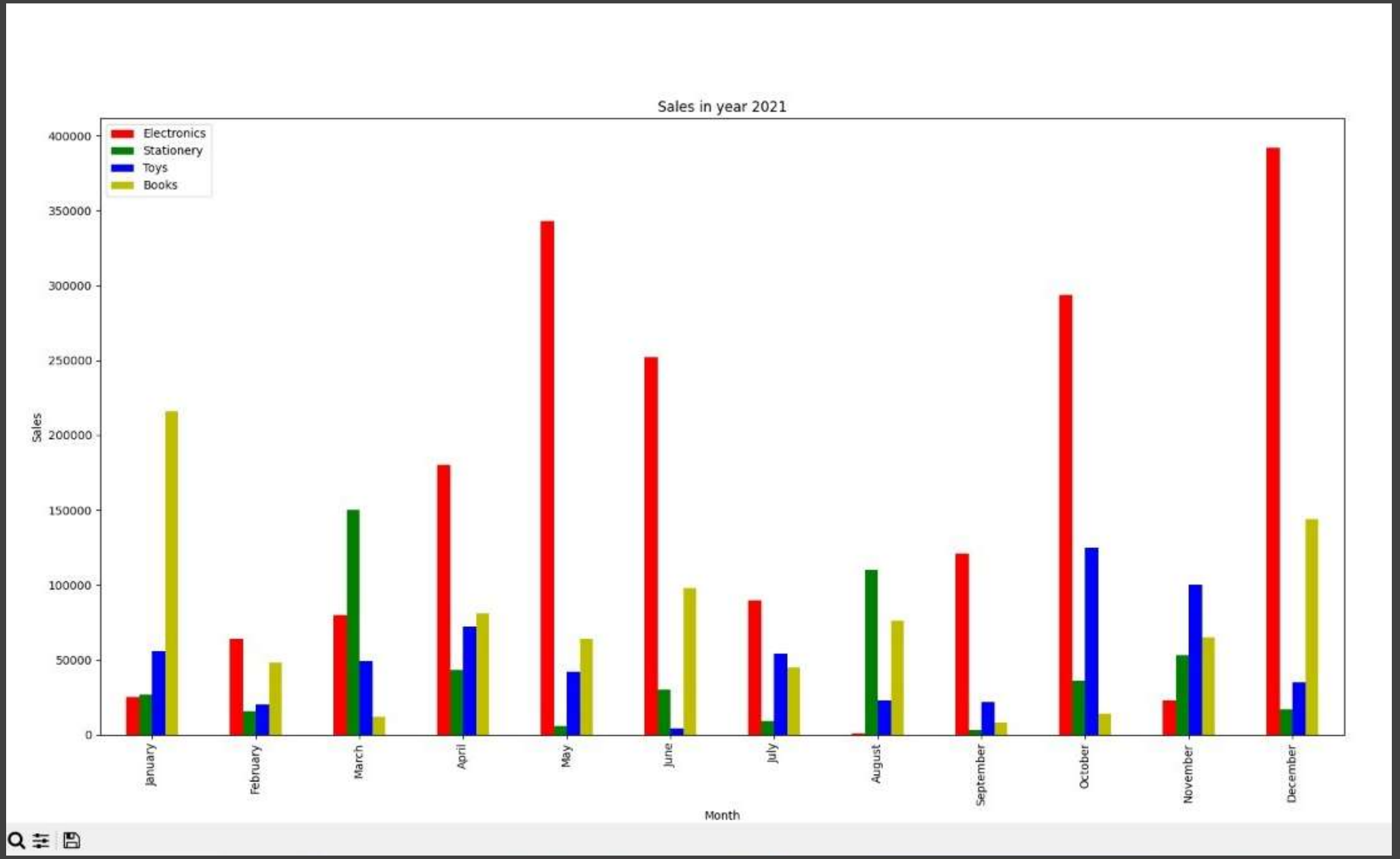
Case 5: When a user is a staff member, enters the correct password, verifies his details, chooses to view a table and selects a non-existing table.

```
Connection secured.
Hello and welcome to EShop, our internet-based shopping platform.

Are you a customer(C) or a staff member(S)?
S
Enter the business passcode: R19028A
Enter your staff ID: 2R0Y1A9N
Enter your full name: Rayyan Ali
Welcome to EShop, Rayyan Ali .
Let's get to work!

What would you like to do?
1. View a table.
2. View a table's structure.
3. View a chart for sales in each department for year 2021.

Enter the service number: 1
1. View the tables.
Here are the tables in this database.

books
-----------
departments
-----------
electronics
-----------
staff
-----------
stationery
-----------
toys
-----------

Enter the name of the required table: Staff
Table Staff is not in the database.

THE END
>>>
```

Case 6: When a user is a staff member, enters the correct password, verifies his details, chooses to view a chart for sales in each department for year 2021:

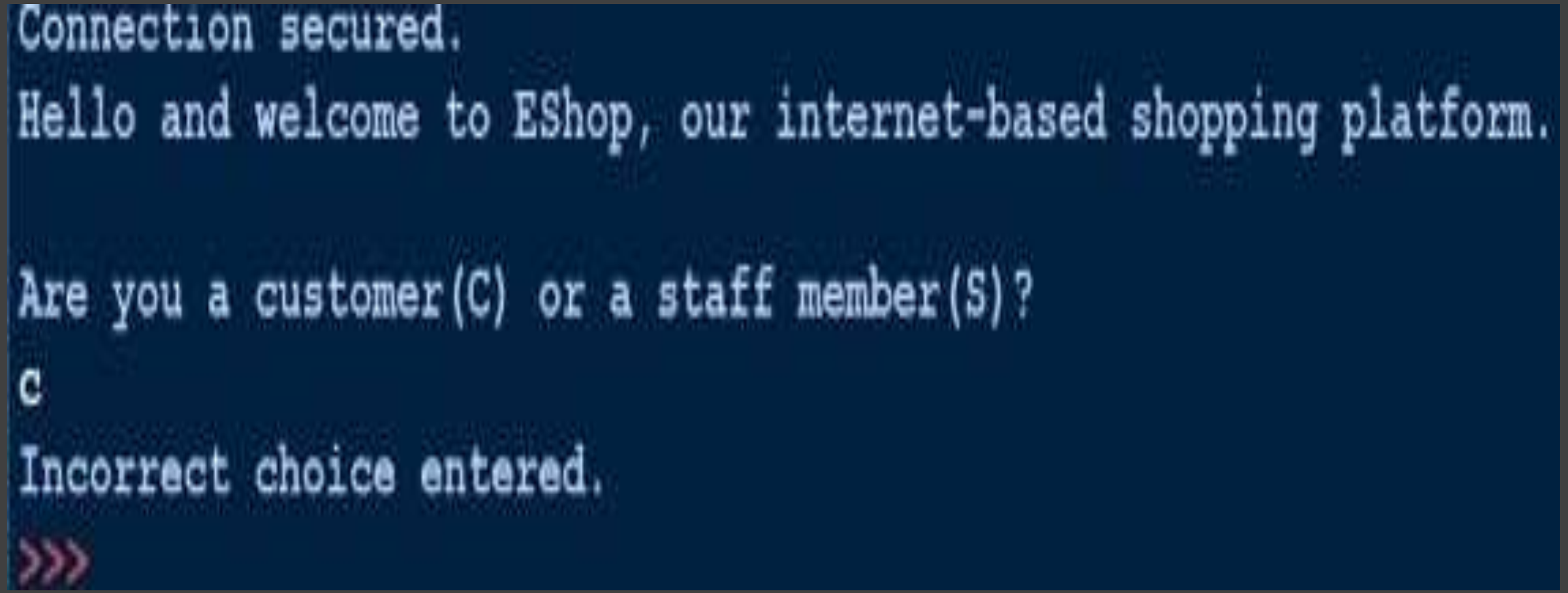
```
Connection secured.
Hello and welcome to EShop, our internet-based shopping platform.

Are you a customer(C) or a staff member(S)?
S
Enter the business passcode: R19028A
Enter your staff ID: 1A7H8D2K
Enter your full name: Ammaar Ahmad Khan
Welcome to EShop, Ammaar Ahmad Khan .
Let's get to work!

What would you like to do?
1. View a table.
2. View a table's structure.
3. View sales in each department for year 2021.

Enter the service number: 3

THE END
>>>
```

INPUT


Sales in year 2021
Electronics
Stationery
Toys
Books
400000
350000
300000
250000
200000
150000
100000
50000
0
Sales
January
February
March
April
May
June
July
August
September
October
November
December
Month

OUTPUT

Case 7: When user enters incorrectly as to whether he is a customer or a staff member.



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