St. Mary's Central School

Thiruvananthapuram

(CATHLON SPORTS HUB)

INFORMATICS PRACTICES PROJECT REPORT

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BONAFIDE CERTIFICATE

Certified to be the bonafide project work done by Rosh Cherian of class XII *in St. Mary's Central School, Poojappura, Thiruvananthapuram during the year 2020-2021*

Roll no: 18

Dated : …… Teacher in charge: ……..

Submitted for All India Senior Secondary Practical Examination held in …….. at St. Mary's Central School, Poojappura, Thiruvananthapuram.

Internal Examiner External Examiner

PRINCIPAL

ACKNOWLEDGEMENT

This project could not have been initialized and completed without the blessings of Almighty God.

I sincerely express my gratitude to the principal, Dr. Anila Sarosh , *for giving us an opportunity to present this Informatics Practices Project.*

I owe my heartiest thanks to Mrs. Shoba P, our informatics practises teacher, for giving me time and opportunity to complete this project. Special thanks to her valuable advice and suggestions.

Last but not least, thanks to all my friends and classmates for giving me able support and assistance to complete this project successfully.

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INTRODUCTION

Cathlon Sports Hub program is designed to manage the administrative, financial aspects of a sports shop. The usual type of handwritten bills are not 100% accurate and also it is a highly time consuming process. This program encompasses paper based information processing as well as data processing systems.

Since this project is made in Python, which makes this project wonder and helps in clearing the concept of python. In this program the basement information is stored using a database in MySQL, which helps in data connectivity.

Even though the project has many constraints, it is user friendly and simple.

PROBLEM DEFINITION

The manual handling of the record is time consuming and highly prone to error. The purpose of this project is to generate 100% accurate bill based on the products selected by the customer.

OBJECTIVES

- To develop a paper-less sports shop up to 90%.
- To develop a low-cost reliable automation of the existing systems
- To develop an excellent security of data at every level of user-system interaction
- To develop reliable storage and backup facilities

LIMITATIONS

- Online payment is not available at this version.
- Data delete & edit system is not available for all section i.e. once a product is selected it cannot be edited or deleted.

SYSTEM ANALYSIS

System analysis is the detailed study of the system. This includes some sort of modification, processing etc…

Moreover system analysis is a continuous process. During this phase the problem is identified, alternative system solutions are made out by committing the resources required to design the system.

a) PRESENT SYSTEM:-

All the details about the users and materials are stored in the books. The records of sales and billings of each user are stored in different books and reports are to be prepared based on them.

b) PROPOSED SYSTEM:-

Here the user can select the products of different brands and can select the quantity needed. It is constantly updated to the user about their wants till billing. At last total price is generated and each details can be prepared using proposed system easily.

SYSTEM REQUIREMENTS

I) OPERATING SYSTEM

- Windows 7 or Windows 8 or windows 10

II) APPILICATION SYSTEM

- This program was developed using Python as front end and MySQL as back end.

SYSTEM TESTING

INTRODUCTION

The program testing is a crucial element in quality assurance and represents the ultimate review of specification design and coding. Testing represents an interesting anomaly for software from an abstract concept to tangible information.

UNIT TESTING

The phase of testing involves testing of system in modules of units. This means that each module of system is tested independently for bugs and errors. Different data combinations are entered into module for checking. This type of testing is otherwise called module testing or functional testing.

OUTPUT TESTING

The output generated by the system under consideration was in the format required by the user. Program developed timely reports without any error was found accurate.

DATABASE DESIGN (optional)

Mysql tables

MySQL 5.5 Command Line Client

```
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 125
Server version: 5.5.62 MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use rosh;
Database changed
mysql> select * from sportshub;
+--------------+
| SPORT        |
+--------------+
| Athletics    |
| Badminton    |
| Basketball   |
| Bodybuilding |
| Cricket      |
| Fishing      |
| Football     |
+--------------+
7 rows in set (0.00 sec)

mysql>
```
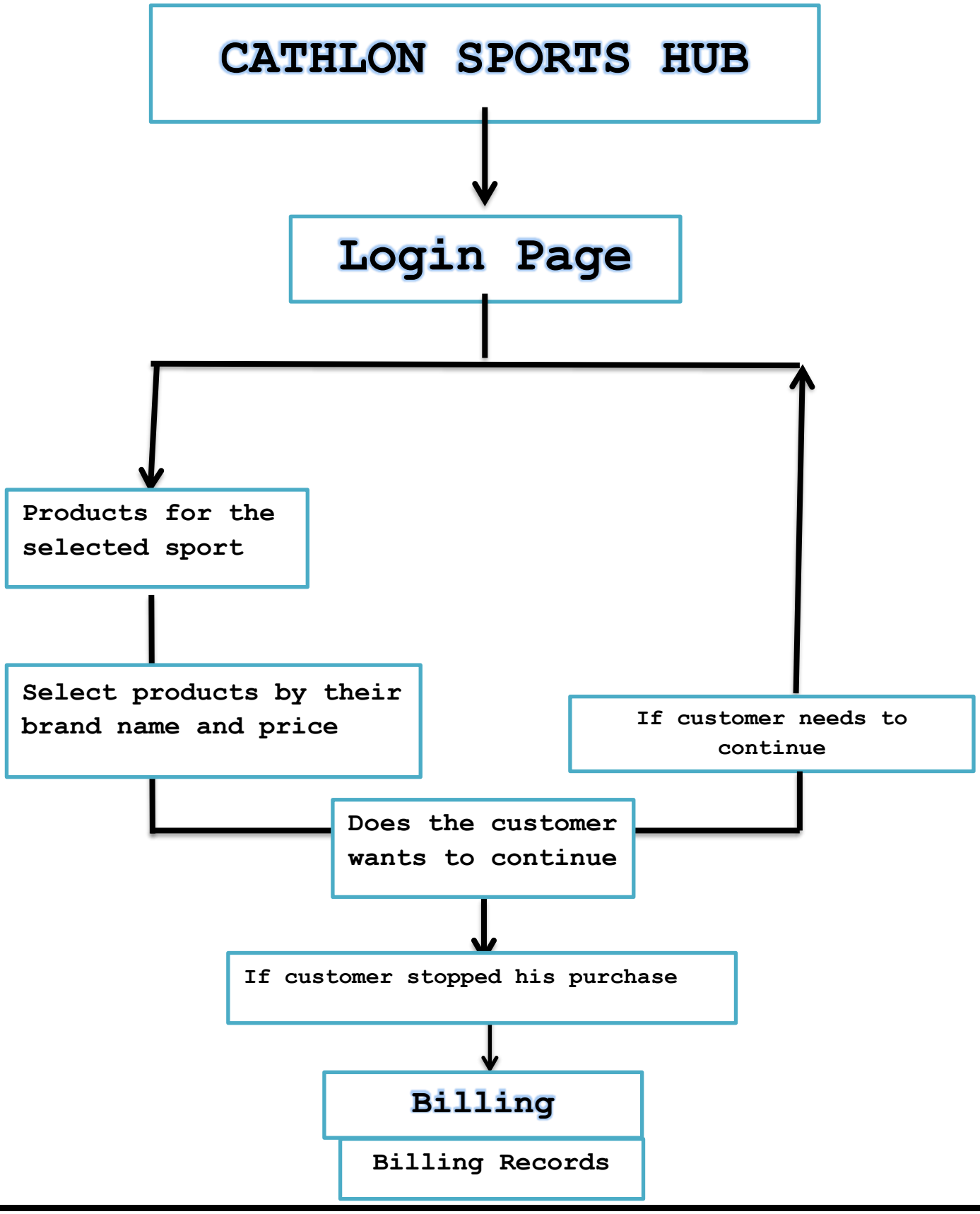

(OPTIONAL)

STRUCTURED CHART



SOURCE CODE

&

SCREENSHOTS

SOURCE CODE

```
import mysql.connector
import pandas as pd
db=mysql.connector.connect(host='localhost',user='root',password='',database='rosh')
s=0
print("*"*100)
print("            WELCOME  TO  CATHLON  SPORTS  HUB")
print('*'*100)
choice='y'
while choice=='y':
   df=pd.read_sql('select * from sportshub',db)
   print(df)
   print('*'*70)
   a=int(input("Enter the no. for event:"))
   print('='*70)
   if a==0:
      print("This is our athletics store")
      b=pd.read_csv("D:\ALL PYTHON FILES\ATHLETICS 1.csv")
      print(b)
      print('*'*70)
      c=int(input("Enter the no. for the products"))
      print('='*70)
      if c==0:
```

```
print("This is our Running and sprinting store")
d=pd.read_csv("D:\ALL PYTHON FILES\ATHLETICS 2.csv")
print(d)
print('*'*70)
aa=int(input("Enter the number for your need="))
if aa==0:
   size=int(input("Enter your size="))
   print('='*70)
   brands={'brandname':['adidas','nike','newbalance'],'price':[1000,3000,5000]}
   brand=pd.DataFrame(brands)
   print(brand)
   print('*'*70)
   a1=int(input("Enter the no. for the product="))
   a2=brand.loc[a1]
   a3=a2['brandname']
   a4=a2['price']
   a5=int(input('Enter the no. of quantity'))
   print('='*70)
   a6=a4*a5
   s=s+a6
   print("Selected product ",a2)
if aa==1:
   size=int(input("Enter your size="))
   brands={'brandname':['athleticworks','power','puma'],'price':[800,1000,3000]}
   brand=pd.DataFrame(brands)
   print(brand)
```

```
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if aa==2:
    size=int(input("Enter your size="))
    brands={'brandname':['Asics','Reebok','Sketchers'],'price':[800,1000,3000]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if aa==3:
```

```
        size=int(input("Enter your size="))
        brands={'brandname':['Aero','Adidas','Newbalance','Nike','Puma','Reebok'],'price':
        [1100,1500,2000,2500,1800,1700],'material':['mesh','synthetic','mesh','synthetic','s
        ynthetic','mesh']}
        brand=pd.DataFrame(brands)
          print(brand)
          print('*'*70)
          a1=int(input("Enter the no. for the product="))
          a2=brand.loc[a1]
          a3=a2['brandname']
          a4=a2['price']
          a5=int(input('Enter the no. of quantity'))
          print('='*70)
          a6=a4*a5
          s=s+a6
          print("Selected product ",a2)
    if c==1:
       print('Our longjump equipments')
       equipments={'products':['shoes','knee support','tights']}
       equip=pd.DataFrame(equipments)
       print(equip)
       kur=int(input("Enter the no.of your need="))
       if kur==0:
          size=int(input("Enter your size="))
          brands={'brandname':['Adidas','Reebok','Nike'],'price':[1800,3000,4500]}
          brand=pd.DataFrame(brands)
          print(brand)
```

```
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    a8=a8+a2
    print("Selected product ",a2)
if kur==1:
    brands={'brandname':['Adidas','Medico','Mr.Doc'],'price':[800,3000,450]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if kur==2:
```

```
        size=int(input("Enter your size="))
        brands={'brandname':['Adidas','Puma','Nike'],'price':[1200,3100,4300]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if c==2:
       print("Our highjump equipments")
       equipments={'products':['shoes','tights','training equipments']}
       equip=pd.DataFrame(equipments)
       print(equip)
       pir=int(input("Enter the no.of your need="))
       if pir==0:
          brands={'brandname':['Adidas','Nivia','Diac'],'price':[1800,3000,4150]}
          brand=pd.DataFrame(brands)
          print(brand)
          print('*'*70)
          a1=int(input("Enter the no. for the product="))
```

```
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==1:
    size=int(input("Enter your size="))
    brands={'brandname':['Adidas','Puma','Nike'],'price':[1200,3100,4300]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==2:

 brands={'products':['weights','stetchableband','crossfit'],'price':[10000,3100,4030]}
```

```
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['products']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
        print("For more custom weights and other equipments contact with our dealer")
if c==3:
    print("Products for marathon")
    equipments={'products':['shoes','tights','energy boosters']}
    equip=pd.DataFrame(equipments)
    print(equip)
    pir=int(input("Enter the no.of your need="))
    if pir==0:
        size=int(input("Enter your size="))
        brands={'brandname':['Adidas','Puma','Nike'],'price':[1200,3100,4300]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
```

```
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==1:
    size=int(input("Enter your size="))
    brands={'brandname':['Adidas','Puma','Nike'],'price':[1000,2000,3300]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==2:
    brands={'brandname':['Redbull','kepto','monster energy'],'price':[100,200,300]}
    brand=pd.DataFrame(brands)
```

```
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if c==4:
      print("Products for Pole Vault")
      equipments={'products':['shoes','tights','cusions','poles']}
      equip=pd.DataFrame(equipments)
      print(equip)
      pir=int(input("Enter the no.of your need="))
      if pir==0:
        size=int(input("Enter your size="))
        brands={'brandname':['Adidas','Puma','Nike'],'price':[4200,3100,4300]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
```

```
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==1:
    size=int(input("Enter your size="))
    brands={'brandname':['Adidas','Puma','Nike'],'price':[1000,2000,3300]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==2:
    size=int(input("Enter the required size(in m)="))
    brands={'brandname':['Adidas','Mr.Doc','Nike'],'price':[10000,20000,30300]}
    brand=pd.DataFrame(brands)
    print(brand)
```

```
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
    print("For more materials and sizes contact our dealer")
if pir==3:
    brands={'brandname':['Adidas','Puma','Nike'],'price':[1000,2000,3300]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
    print("For length and material customisation contact our dealer")
```

```
    if a==1:
        print("Here is our badminton store")
        equipments={'products':['shoes','raquets','nets','strings','shuttle cocks','arm
support','knee support']}
        equip=pd.DataFrame(equipments)
        print(equip)
        pir=int(input("Enter the no.of your need="))
        if pir==0:
            size=int(input("Enter the required size(in m)="))
            brands={'brandname':['Adidas','Mroc','Nike'],'price':[1000,2000,3300]}
            brand=pd.DataFrame(brands)
            print(brand)
            print('*'*70)
            a1=int(input("Enter the no. for the product="))
            a2=brand.loc[a1]
            a3=a2['brandname']
            a4=a2['price']
            a5=int(input('Enter the no. of quantity'))
            print('='*70)
            a6=a4*a5
            s=s+a6
            print("Selected product ",a2)
        if pir==1:
            brands={'brandname':['Adidas','li-ning','Yonex'],'price':[1200,3300,1300]}
            brand=pd.DataFrame(brands)
            print(brand)
```

```
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==2:
    brands={'brandname':['Adidas','li-ning','Yonex'],'price':[12000,23300,31300]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
    print("For more customised size contact our dealer")
if pir==3:
```

```
    brands={'brandname':['Adidas','li-ning','Yonex'],'price':[200,300,300]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==4:
    print("Our shuttle cock collections")
    brands={'brandname':['Adidas','li-ning','Yonex'],'price':[200,300,300]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
```

```
    s=s+a6
    print("Selected product ",a2)
if pir==5:
    print("Our arm support collections")
    brands={'brandname':['Adidas','li-ning','Yonex'],'price':[200,300,300]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==6:
    print("Our knee support collections")
    brands={'brandname':['Adidas','li-ning','Yonex'],'price':[200,300,300]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
```

```
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if a==2:
        print("Here is our basketball store")
        equipments={'products':['shoes','basketball','knee support']}
        equip=pd.DataFrame(equipments)
        print(equip)
        pir=int(input("Enter the no.of your need="))
        if pir==0:
            print("Our basketball shoes collections")
            brands={'brandname':['Adidas','Air-Flex','Nike'],'price':[2200,4300,3500]}
            brand=pd.DataFrame(brands)
            print(brand)
            print('*'*70)
            a1=int(input("Enter the no. for the product="))
            a2=brand.loc[a1]
            a3=a2['brandname']
            a4=a2['price']
            a5=int(input('Enter the no. of quantity'))
            print('='*70)
            a6=a4*a5
            s=s+a6
```

```
        print("Selected product ",a2)
    if pir==1:
        print("Our basketball collections")

brands={'brandname':['Adidas','Carlton','NBA','Nike'],'price':[2200,4300,5000,3500]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if pir==2:
        print("Our knee support collections")
        brands={'brandname':['Adidas','Noc-to','tinex'],'price':[200,300,300]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
```

```
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if a==3:
        print("Our bodybuilding and fitness section")
        equipments={'products':['equipments','weights','support bands','protein powders']}
        equip=pd.DataFrame(equipments)
        print(equip)
        pir=int(input("Enter the no.of your need="))
        print("For custom weights and equipments you can contact our dealer")
        if pir==0:
            print("Our equipment collections")
            brands={'basic workout
machines':['cardio','chestpuller','squatracks'],'brandname':['Adidas','Eleiko','nex-
to'],'price':[20000,300000,30010]}
            brand=pd.DataFrame(brands)
            print(brand)
            print('*'*70)
            a1=int(input("Enter the no. for the product="))
            a2=brand.loc[a1]
            a3=a2['brandname']
            a4=a2['price']
            a5=int(input('Enter the no. of quantity'))
            print('='*70)
```

```
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
        print("NB: Equipments had to be customised by the requirement of customer, so for any further information contact our dealer")
    if pir==1:
        print("Our weight collections")
        print("All of our weights are made from pure iron and coating is rubberised")
        brands={'brandname':['Adidas','Ntco','tlnex'],'price':[2000,3500,3100]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if pir==2:
        print("Our supportband collections")
        brands={'purpose':['chestpad','gloves','knee and arm supports'],'brandname':['Adidas','Nike','tinex'],'price':[200,300,300]}
        brand=pd.DataFrame(brands)
        print(brand)
```

```
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if pir==3:
        print("Our protein powder collections")
        brands={'type':['whey','weightgain','muscle recovery'],'brandname':['Adidas','Noc-
to','Himalaya'],'price':[200,300,300]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
```

```
if a==4:
    print("Our cricket section")
    equipments={'products':['cricket bat','balls','accessories','kits']}
    equip=pd.DataFrame(equipments)
    print(equip)
    pir=int(input("Enter the no.of your need="))
    if pir==0:
        print("Our cricketbat collections")

         brands={'material':['Englishwillow','Kashmiriwillow'],'brandname':['Adidas','Nike'],
         'price':[20000,13000]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
        print("For seasoning and repairing you can contact our dealer")
    if pir==1:
        print("Our cricketball collections")
```

```
    brands={'type':['tennis','white','red'],'brandname':['Adidas','Nike','Cookaburra'],'pr
    ice':[200,1300,2300]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==2:
    print("Our accessories collections")

    brands={'purpose':['pads','gloves','helmets'],'brandname':['Adidas','Nike','tinex'],'p
    rice':[2000,300,3000]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
```

```
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if pir==3:
        print("Our kit collections")
        brands={'brandname':['Adidas','Nike','tinex'],'price':[2000,3050,3000]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
if a==5:
    print("Our Fishing section")
    equipments={'products':['rods','reels','bait lures','braids']}
    equip=pd.DataFrame(equipments)
    print(equip)
    pir=int(input("Enter the no.of your need="))
```

```
if pir==0:
    print("Our fishing rod collections")

     brands={'brandname':['Shimano','Wildcat','Pioneer'],'length':[7,7,8],'price':[2000,3
     050,3000]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==1:
    print("Our fishing reel collections")
    brands={'brandname':['Shimano','Wildcat','Pioneer'],'price':[2000,3050,3000]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
```

```
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==2:
    print("Our fishing lure collections")

    brands={'brandname':['Shimano','Wildcat','Pioneer'],'type':['jumpfrog','zinoc','top
    water'],'price':[2000,3050,3000]}
    brand=pd.DataFrame(brands)
    print(brand)
    print('*'*70)
    a1=int(input("Enter the no. for the product="))
    a2=brand.loc[a1]
    a3=a2['brandname']
    a4=a2['price']
    a5=int(input('Enter the no. of quantity'))
    print('='*70)
    a6=a4*a5
    s=s+a6
    print("Selected product ",a2)
if pir==3:
    print("Our fishing braid collections")

    brands={'brandname':['Shimano','Wildcat','DNA'],'length':[100,150,100],'price':[20
    00,3050,3000]}
```

```
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if a==6:
      print("Our Football section")
      equipments={'products':['football','football boots','accessories']}
      equip=pd.DataFrame(equipments)
      print(equip)
      pir=int(input("Enter the no.of your need="))
      if pir==0:
        print("Our football collections")
        brands={'brandname':['Adidas','Nike'],'price':[2000,3050,3000]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
```

```
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if pir==1:
        print("Our football boot collections")
        brands={'brandname':['Adidas','Newbalance','Nike'],'price':[2000,3050,3000]}
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
    if pir==2:
        print("Our accessories collections")
        brands={'accessories':['socks','shinguards','knee
support'],'brandname':['Adidas','Newbalance','Nike'],'price':[200,350,300]}
```

```
        brand=pd.DataFrame(brands)
        print(brand)
        print('*'*70)
        a1=int(input("Enter the no. for the product="))
        a2=brand.loc[a1]
        a3=a2['brandname']
        a4=a2['price']
        a5=int(input('Enter the no. of quantity'))
        print('='*70)
        a6=a4*a5
        s=s+a6
        print("Selected product ",a2)
   choice=input("do you want to continue(y/n):")
print('*'*70)
print("total price=",s)
print('='*70)
print("THANKYOU FOR SHOPPING WITH CATHLON SPORTS HUB, HAVE A GREAT DAY!")
import matplotlib.pyplot as plt
x=[2015,2016,2017,2018,2019]
y=[3.8,4.6,4.8,5,4.2]
plt.title("OUR LAST 5 YEARS CUSTOMER RATING")
plt.xlabel("Years")
plt.ylabel("Rating [0-5]scale")
plt.bar(x,y)
plt.show()
```

OUTPUT

****
****

WELCOME TO CATHLON SPORTS HUB

****
****

SPORT

0 Athletics

1 Badminton

2 Basketball

3 Bodybuilding

4 Cricket

5 Fishing

6 Football

****

Enter the no. for event:4

==========

Our cricket section

products

0 cricket bat

1 balls

2 accessories

3 kits

Enter the no.of your need=0

```
Our cricketbat collections
         material brandname  price
0   Englishwillow    Adidas  20000
1  Kashmiriwillow      Nike  13000
*******************************************************************
Enter the no. for the product=1
Enter the no. of quantity2
===================================================================
Selected product  material     Kashmiriwillow
brandname             Nike
price                13000
Name: 1, dtype: object
For seasoning and repairing you can contact our dealer
do you want to continue(y/n):y
          SPORT
0     Athletics
1     Badminton
2    Basketball
3  Bodybuilding
4       Cricket
5       Fishing
6      Football
*******************************************************************
Enter the no. for event:5
===================================================================
Our Fishing section
```

```
    products
0       rods
1      reels
2  bait lures
3     braids
Enter the no.of your need=2
Our fishing lure collections
  brandname      type  price
0   Shimano  jumpfrog   2000
1   Wildcat     zinoc   3050
2   Pioneer  topwater   3000
****************************************************************************
Enter the no. for the product=2
Enter the no. of quantity1
============================================================================
Selected product  brandname     Pioneer
type        topwater
price           3000
Name: 2, dtype: object
do you want to continue(y/n):n
****************************************************************************
total price= 29000
============================================================================
THANKYOU FOR SHOPPING WITH CATHLON SPORTS HUB, HAVE A GREAT DAY!
```

SCREENSHOTS OF CSV FILES

ATHLETICS 1 - Notepad

File Edit Format View Help

E V E N T S
RUNNING
LONG JUMP
HIGH JUMP
MARATHON
POLE VAULT

ATHLETICS 2 - Notepad

File Edit Format View Help

products
Spikes
running shoes
walking shoes
tracksuits

Conclusion

From the proper analysis of positive points and constraints, it can be safely concluded that Cathlon Sports Hub project is a highly GUI based application. This project can also be easily plugged in many other systems and meet all user requirements. The following can be included:

- ✓ With the help of a membership card user can use it and claim discounts in the future.
- ✓ A new platform linked with this project can be included so that users will be able to contact with our dealers and can buy products in bulk and later collaborate with our shop.

Scheduling this project and adhering to that schedule creates a strong sense of time management.

BIBLIOGRAPHY

- NCERT text (Informatics practices XI)
- informatics practices by Sumita Arora (class XI&XII)