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2021-22
Project Documentation

Topic: Book Shop Management System

Class:…….
Stream:……..

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OBJECTIVE:

The title of the project is “Book shop management”. This software will be used to perform all the inventory jobs that are done in a normal book shop. In a book shop that does not uses a software, the inventory and sales is done manually, which is time consuming and prone to errors.

The following points were considered while deciding the objective of the project:

1. This software is for Book shop management so it provides those facilities, which is used in any Book Shop.

2. It also saves the valuable time of the shop owner and lots of paper works.

3. This will save lots of effort of the user. He/She is able to manage lots of information after using this software.

4. User can manage all the records very easily.

5. Security of the data should also be maintained.

Scope of the project:

This software can be used in any book shop that has an inventory of 10,000 books or more and has a good amount of sales. The hardware require will be minimal and the training required for learning the software will also be less hence majority of the book shop will be able to use it and stream line their works.

Existing System:

As of now, general book shop maintain their inventory i.e procurement and sales of stock(BOOKS in this case) through normal ledger entry on books and registers. The methodology use is old and time consuming. Some of the disadvantages of the existing systems are listed below:

1. Too much of manual entry is done

2. The Stock records are maintained in normal registers which may have error entry

3. The sales of books are also kept in registers, hence searching the books that are in stock and those sold is very inefficient and time consuming

4. The sales record are kept in registers and bill books, hence the accounting becomes tough.

5. There is always a threat of loosing the registers as paper over time gets soiled and damaged.

6. The data can get lost over a period of time

Our system promises to deal with all these problems. Our software will deal with proper storage of data and security of the records to be maintained as well.

Project plan:

The software will have two parts to it

1. Front End
2. Back End

Front End:

The front end will be the interface through which data about the inventory and sales will be entered into the system. The front end(INTERFACE) will be developed using python and may be GUI(Graphical Users Interface) or CLI(Command line Interface) based on the time available to construct the software.

Back End:

The back end will act as data store. The back end can be developed using mysql or CSV/Binary files . All the data entered using the interface will be stored in the back end database. During the reporting, the data will be fetched from the back end storage and displayed on the front end for the end user.

The connection between front end and back end will be made in order to transfer data between them. Its always a good practice to separate the front end and back end as it offers better modularity.

Features to be incorporated in the "Book Shop Management System" application: (*These are suggestive features and can be changed according to the students*)

1. Accounts - Signup/Login
2. Add Books
3. Delete Books
4. Search Books
5. Staff Details
6. Sell Books
7. Sales Record
8. Available Books
9. Total Income after the Latest Reset

NOTE:

Features that belongs to front-end:

1. Interface to enter the **Records of the Books**
2. Interface to enter the **Transaction - Sales of Books**
3. Interface to get the **Report**

Features that belong to Back-end:
Database Tables:

1. **signup** - username, password.
2. **Available_books** - BookName, Genre, Quantity, Author, Publication, Price, ISBN.
3. **Sell_rec** - CustomerName, PhoneNumber, BookName, Quantity, Price, ISBN.
4. **staff_details** - Name, Gender, Age, PhoneNumber, Address.

Role of Team Member:

In this section we mention the task to be carried out in completion of the project. If we consider that the project team consist of two members, then the task can be divided as-

Member 1: The member 1 will design the interface for the font-end. Member 2 will work with python programming language.
Member 2: The member 2 will design the back end I.e. all the database table required to store the data. Member 2 will work with MySql software

Hardware and Software to be used.

Hardware requirements:

Process: Intel Core I 3
Ram : 8 GB
Hard Disk: 512 GB

Software requirements:

OS: Windows 10 64 Bit
Programming language: Python
DBMS Software : MySql
Documentation Software: WPS Office

Code of the Project:

```
import mysql.connector
mydb=mysql.connector.connect(host="localhost",user="root",password="root")

#print(mydb)

#CREATING DATABASE AND TABLE

mycursor=mydb.cursor()
mycursor.execute("create database if not exists store")
mycursor.execute("use store")
mycursor.execute("create table if not exists signup(username varchar(20),password
varchar(20))")

while True:


    print("""
    1:Signup
    2:Login
    Enter anything else to exit""")

    ch=int(input("SIGNUP/LOGIN(1,2):"))

#SIGNUP

    if ch==1:

        username=input("USERNAME:")
        pw=input("PASSWORD:")

        mycursor.execute("insert into signup values('"+username+"','"+pw+"')")
        mydb.commit()
#-------------------------------------------------------------------------------------------------------------
---------------
#LOGIN
    elif ch==2:

        username=input("USERNAME:")

        mycursor.execute("select username from signup where username='"+username+"'")
```

```
    pot=mycursor.fetchone()

    if pot is not None:
        print("VALID USERNAME!!!!!!")

        pw=input("PASSWORD:")

        mycursor.execute("select password from signup where password='"+pw+"'")
        a=mycursor.fetchone()

        if a is not None:
            print("""++++++++++++++++++++++++++++LOGIN
SUCCESSFULL++++++++++++++++++++++++++++""")


print("""==========================================================================
==========
++++++++++++++++++++++++++    BOOK STORE    ++++++++++++++++++++++++++
==========================================================================
========""")

            mycursor.execute("create table if not exists Available_Books(BookName
varchar(30), Genre varchar(20),Quantity int(3),Author varchar(20),Publication
varchar(30),Price int(4),ISBN bigint primary key)")
            mycursor.execute("create table if not exists Sell_rec(CustomerName
varchar(20),PhoneNumber char(10) unique, BookName varchar(30),Quantity int(100),Price
int(4),ISBN bigint,foreign key (ISBN) references Available_Books(ISBN))")
            mycursor.execute("create table if not exists Staff_details(Name varchar(30),
Gender varchar(10),Age int(3), PhoneNumber char(10) unique key , Address varchar(40))")
            mydb.commit()

            while(True):
                print("""
                1:Add Books
                2:Delete Books
                3:Search Books
                4:Staff Details
                5:Sell Books
                6:Sell Record
                7:Available Books
                8:Total Income after the Latest Reset
                9:Exit""")

                a=int(input("Enter your choice:"))

#-------------------------------------------------------------------------------------------------------------
----------------
```

```
   #ADD BOOKS

                if a==1:

                    print("All information prompted are mandatory to be filled")

                    book=str(input("Enter Book Name: "))
                    genre=str(input("Genre: "))
                    quantity=int(input("Enter quantity: "))
                    author=str(input("Enter author name: "))
                    publication=str(input("Enter publication house: "))
                    price=int(input("Enter the price: "))
                    isbn=int(input("Enter the ISBN number: "))

                    mycursor.execute("select * from Available_Books where
isbn='"+str(isbn)+"'")
                    row=mycursor.fetchone()

                    if row is not None:
                        mycursor.execute("update Available_Books set
quantity=quantity+'"+str(quantity)+"' where isbn='"+str(isbn)+"'")
                        mydb.commit()

                        print("""++++++++++++++++++++++++++SUCCESSFULLY
ADDED++++++++++++++++++++++++""")


                    else:
                        mycursor.execute("insert into
Available_Books(bookname,genre,quantity,author,publication,price,isbn)
values('"+book+"','"+genre+"','"+str(quantity)+"','"+author+"','"+publication+"','"+str(price)+
"','"+str(isbn)+"')")
                        mydb.commit()

                        print("""++++++++++++++++++++++++++SUCCESSFULLY
ADDED++++++++++++++++++++++++""")

#-------------------------------------------------------------------------------------------------------
-----------------
   #DELETE BOOKS
                elif a==2:
                    print("Avalaible Books...")
                    mycursor.execute("select * from available_books ")
                    lt=mycursor.fetchone()
                    if lt is None:
                        print("No book to delete")
                    else:
```

```
                    mycursor.execute("select * from available_books ")
                    for x in mycursor:
                        print(x)
                    isbn=0
                    isbn=int(input("Enter the isbn number to delete the book record"))
                    mycursor.execute("select bookname from available_books where
isbn='"+str(isbn)+"'")
                    log=mycursor.fetchone()
                    if log is not None:
                        mycursor.execute("DELETE FROM available_books WHERE isbn =
"+str(isbn))
                        mydb.commit()
                        print("Book deleted")
                    else:
                        print("The book is not available or Incorrect ISBN number")


#-------------------------------------------------------------------------------------------------------------
---------------
    #SELL BOOKS
            elif a==5:

                print("AVAILABLE BOOKS...")

                mycursor.execute("select * from Available_Books ")
                for x in mycursor:
                    print(x)

                cusname=str(input("Enter customer name:"))
                phno=int(input("Enter phone number:"))
                book=str(input("Enter Book Name:"))
                price=int(input("Enter the price:"))
                n=int(input("Enter quantity:"))
                isbn=int(input("Enter the ISBN "))

                mycursor.execute("select quantity from Available_Books where
isbn="+str(isbn))
                lk=mycursor.fetchone()

                if max(lk)<n:
                    print(n,"Books are not available!!!!")

                else:
                    mycursor.execute("select bookname from available_books where
isbn="+str(isbn))
                    log=mycursor.fetchone()
```

```
                    if log is not None:
                        mycursor.execute("insert into Sell_rec
values('"+cusname+"','"+str(phno)+"','"+book+"',"+str(n)+","+str(price)+","+str(isbn)+")")
                        mycursor.execute("update Available_Books set quantity = quantity -
"+str(n)+" where isbn = "+str(isbn))
                        mydb.commit()

                        print("""++++++++++++++++++++++++++BOOK HAS BEEN
SOLD++++++++++++++++++++++++++""")

                    else:
                        print("BOOK IS NOT AVAILABLE!!!!!!!")
#-------------------------------------------------------------------------------------------------------------
----------------
   #SEARCH BOOKS ON THE BASIS OF GIVEN OPTIONS
                elif a==3:

                    print("""1:Search by name
                        2:Search by genre
                        3:Search by author""")

                    l=int(input("Search by?:"))

       #BY BOOKNAME
                    if l==1:
                        o=input("Enter Book to search:")

                        mycursor.execute("select bookname from available_books where
bookname='"+o+"'")
                        tree=mycursor.fetchone()

                        if tree!=None:
                            print("""++++++++++++++++++++++BOOK IS IN
STOCK++++++++++++++++++++++""")

                        else:
                            print("BOOK IS NOT IN STOCK!!!!!!!")

       #BY GENRE
                    elif l==2:
                        g=input("Enter genre to search:")

                        mycursor.execute("select genre from available_books where
genre='"+g+"'")
                        poll=mycursor.fetchall()

                        if poll is not None:
```

```
                    print("""++++++++++++++++++++++BOOK IS IN
STOCK++++++++++++++++++++++""")

                    mycursor.execute("select * from available_books where genre='"+g+"'")

                    for y in mycursor:
                        print(y)

                else:
                    print("BOOKS OF SUCH GENRE ARE NOT AVAILABLE!!!!!!!!!")


    #BY AUTHOR NAME
            elif l==3:
                au=input("Enter author to search:")

                mycursor.execute("select author from available_books where
author='"+au+"'")
                home=mycursor.fetchall()

                if home is not None:
                    print("""++++++++++++++++++++++BOOK IS IN
STOCK++++++++++++++++++++++""")

                    mycursor.execute("select * from available_books where
author='"+au+"'")

                    for z in mycursor:
                        print(z)

                else:
                    print("BOOKS OF THIS AUTHOR ARE NOT AVAILABLE!!!!!!!")
            mydb.commit()
#-------------------------------------------------------------------------------------------------------
----------------
  #STAFF DETAILS
            elif a==4:
                print("1:New staff entry")
                print("2:Remove staff")
                print("3:Existing staff details")

                ch=int(input("Enter your choice:"))

    #NEW STAFF ENTRY
                if ch==1:
                    fname=str(input("Enter Fullname:"))
                    gender=str(input("Gender(M/F/O):"))
```

```
                    age=int(input("Age:"))
                    phno=int(input("Staff phone no.:"))
                    add=str(input("Address:"))

                    mycursor.execute("insert into
Staff_details(name,gender,age,phonenumber,address)
values('"+fname+"','"+gender+"','"+str(age)+"','"+str(phno)+"','"+add+"')")
                    print("""++++++++++++++++++++++++++++++++STAFF IS
SUCCESSFULLY ADDED++++++++++++++++++++++++++++++++""")
                    mydb.commit()

        #REMOVE STAFF
                elif ch==2:
                    nm=str(input("Enter staff name to remove:"))
                    mycursor.execute("select name from staff_details where name='"+nm+"'")
                    toy=mycursor.fetchone()

                    if toy is not None:
                        mycursor.execute("delete from staff_details where name='"+nm+"'")
                        print("""++++++++++++++++++++++++++++++++++++++STAFF IS
SUCCESSFULLY REMOVED++++++++++++++++++++++++++++++++++++++""")
                        mydb.commit()

                    else:
                        print("STAFF DOESNOT EXIST!!!!!!")

        #EXISTING STAFF DETAILS
                elif ch==3:
                    mycursor.execute("select * from Staff_details")
                    run=mycursor.fetchone()
                    for t in mycursor:
                        print(t)
                    if run is not None:
                        print("EXISTING STAFF DETAILS...")
                        for t in mycursor:
                            print(t)

                    else:
                        print("NO STAFF EXISTS!!!!!!!")
                    mydb.commit()
#-------------------------------------------------------------------------------------------------------------
-------------
    #SELL HISTORY
                elif a==6:
                    print("1:Sell history details")
                    print("2:Reset Sell history")
```

```
                ty=int(input("Enter your choice:"))

                if ty==1:
                    mycursor.execute("select * from sell_rec")
                    for u in mycursor:
                        print(u)

                if ty==2:
                    bb=input("Are you sure(Y/N):")

                    if bb=="Y":
                        mycursor.execute("delete from sell_rec")
                        mydb.commit()

                    elif bb=="N":
                        pass
#-------------------------------------------------------------------------------------------------------------
----------------
    #AVAILABLE BOOKS
            elif a==7:
                mycursor.execute("select * from available_books order by bookname")
                for v in mycursor:
                    print(v)
#-------------------------------------------------------------------------------------------------------------
---------------
    #TOTAL INCOME AFTER LATEST UPDATE
            elif a==8:
                mycursor.execute("select sum(price) from sell_rec")
                for x in mycursor:
                    print(x)
#-------------------------------------------------------------------------------------------------------------
----------------
    #EXIT
            elif a==9:
                break

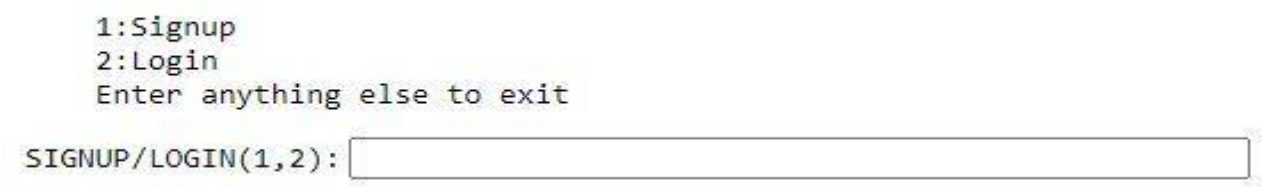
#LOGIN ELSE PART
        else:
            print("""++++++++++++++++++++++++++INCORRECT
PASSWORD++++++++++++++++++++++++++""")

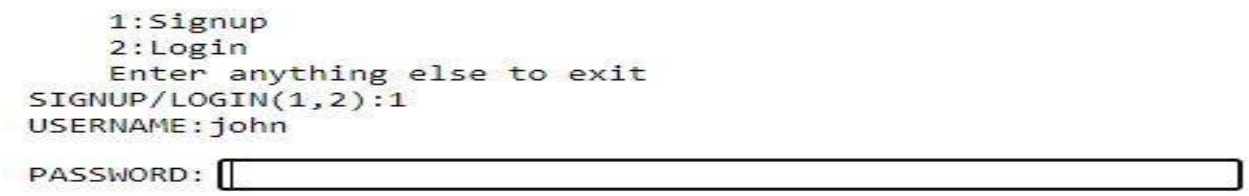

      else:
          print("""++++++++++++++++++++++INVALID
USERNAME++++++++++++++++++++++""")

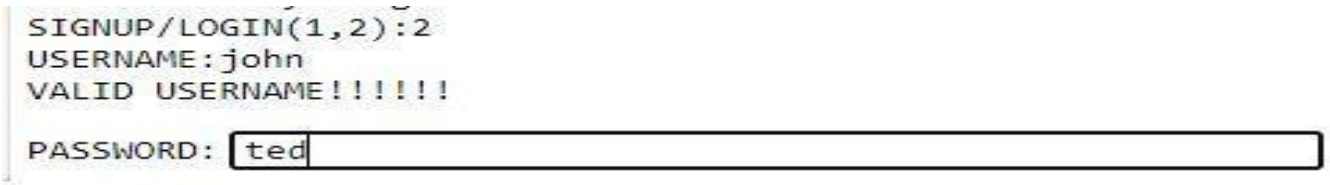
    else:
```

break

Screen Shots of the Project







```
SIGNUP/LOGIN(1,2):2
USERNAME:john
VALID USERNAME!!!!!!
PASSWORD:ted
++++++++++++++++++++++++++LOGIN SUCCESSFULL++++++++++++++++++++++++++
==========================================================================
++++++++++++++++++++++++++    BOOK STORE     ++++++++++++++++++++++++++
==========================================================================

                    1:Add Books
                    2:Delete Books
                    3:Search Books
                    4:Staff Details
                    5:Sell Books
                    6:Sell Record
                    7:Available Books
                    8:Total Income after the Latest Reset
                    9:Exit

Enter your choice:
```

```
Enter your choice:1
All information prompted are mandatory to be filled
Enter Book Name: CS
Genre: Question bank
Enter quantity: 2
Enter author name: amit
Enter publication house: arihanth
Enter the price: 236
Enter the ISBN number: 9789325796874
++++++++++++++++++++++++SUCCESSFULLY ADDED++++++++++++++++++++++++
```

```
 Enter your choice:3
 1:Search by name
                              2:Search by genre
                              3:Search by author

 Search by?:
```

```
Enter your choice:4
1:New staff entry
2:Remove staff
3:Existing staff details

Enter your choice:
```

```
Enter your choice:5
AVAILABLE BOOKS...
('CS', 'QB', 1, 'neetu', 'arihanth', 125, 789)
('CS', 'Question bank', 2, 'amit', 'arihanth', 236, 9789325796874)
Enter customer name:chandu
Enter phone number:976348519
Enter Book Name:CS
Enter the price:236
Enter quantity:1
Enter the ISBN 9789325796874
++++++++++++++++++++++++BOOK HAS BEEN SOLD++++++++++++++++++++++++
```

```
Enter your choice:6
1:Sell history details
2:Reset Sell history

Enter your choice:
```

Future Scope of the project:

The book shop management System is a software that automated the task in a typical book shop, but the software has many future scope of enhancements, few of them are listed below:

1. Better data inventory data analysis can be done which could lead to better sales and profit.
2. more user friendly interface can be designed
3. the software can be made cloud based which will lead to better data security and ease of use.

Conclusion:

It has been a matter of immense pleasure, honour and challenge to have this opportunity to take up this project and complete it successfully. While developing this project I have learnt a lot about online shopping system, I have also how to make it user friendly (easy to use and handle) by hiding the complicated parts of it from the users. During the development process I studied carefully and understood the criteria for making software more demanding, I also realized the importance of maintaining a minimal margin for error.

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