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A Project Report on 'STOCK MANAGEMENT'

SUBMITTED BY-

STOCK MANAGEMENT

Abstract

Stock management is the practice of ordering, storing, tracking, and controlling inventory. Stock management applies to every item a business uses to produce its products or services – from raw materials to finished goods. In other words, stock management covers every aspect of a business's inventory.

The project contains following modules:-

1. Product Management: This module is used to add, update and delete the products.

2. Purchase Management: This module is used to manage the purchase system.

3. Sales Management: This module is used to manage the sale of the products.

4. User Management: This module is used to add/delete the user/staff.

5. Database setup: This module is used to setup the database in the system for the first time.

Technologies Used:

SOFTWARE SPECIFICATION:-

Operating System	:	Windows 7
Platform	:	Python IDLE 2.7
Database	:	MySQL
Languages	:	Python

HARDWARE SPECIFICATION:-

Processor	:	Dual Core and above
Hard Disk	:	40GB
Ram	:	1024 MB

Note: For Python-MySQL connectivity, following data have been used:-

Host- localhost, user- root, password- 12345, database- stock

CODING

```
# STOCK MANAGEMENT
```

```
import os
```

```
import mysql.connector
```

```
import datetime
```

```
now = datetime.datetime.now()
```

```
def product_mgmt( ):
```

```
    while True :
```

```
        print("\t\t\t 1. Add New Product")
```

```
        print("\t\t\t 2. List Product")
```

```
        print("\t\t\t 3. Update Product")
```

```
        print("\t\t\t 4. Delete Product")
```

```
        print("\t\t\t 5. Back (Main Menu)")
```

```
        p=int (input("\t\tEnter Your Choice :"))
```

```
        if p==1:
```

```
            add_product()
```

```
        if p==2:
```

```
            search_product()
```

```
        if p==3:
```

```
            update_product()
```

```
        if p==4:
```

```
            delete_product()
```

```
        if p== 5 :
```

```
            break
```

```
def purchase_mgmt( ):
```

```
    while True :
```

```
        print("\t\t\t 1. Add Order")
```

```
        print("\t\t\t 2. List Order")
```

```
        print("\t\t\t 3. Back (Main Menu)")
```

```
        o=int (input("\t\tEnter Your Choice :"))
```

```
        if o==1 :
```

```
            add_order()
```

```
        if o==2 :
```

```
            list_order()
```

```
        if o== 3 :
```

```
            break
```

```

def sales_mgmt( ):
    while True :
        print("\t\t 1. Sale Items")
        print("\t\t 2. List Sales")
        print("\t\t 3. Back (Main Menu)")
        s=int (input("\t\tEnter Your Choice :"))
        if s== 1 :
            sale_product()
        if s== 2 :
            list_sale()
        if s== 3 :
            break

```

```

def user_mgmt( ):
    while True :
        print("\t\t 1. Add user")
        print("\t\t 2. List user")
        print("\t\t 3. Back (Main Menu)")
        u=int (input("\t\tEnter Your Choice :"))
        if u==1:
            add_user()
        if u==2:
            list_user()
        if u==3:
            break

```

```

def create_database():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
    mycursor=mydb.cursor()
    print(" Creating PRODUCT table")
    sql = "CREATE TABLE if not exists product (\
        pcode int(4) PRIMARY KEY,\
        pname char(30) NOT NULL,\
        pprice float(8,2) ,\
        pqty int(4) ,\
        pcat char(30));"
    mycursor.execute(sql)

```

```

print(" Creating ORDER table")
sql = "CREATE TABLE if not exists orders (\
    orderid int(4)PRIMARY KEY ,\
    orderdate DATE ,\
    pcode char(30) NOT NULL ,\
    pprice float(8,2) ,\
    pqty int(4) ,\
    supplier char(50),\
    pcat char(30));"
mycursor.execute(sql)
print(" ORDER table created")

print(" Creating SALES table")
sql = "CREATE TABLE if not exists sales (\
    salesid int(4) PRIMARY KEY ,\
    salesdate DATE ,\
    pcode char(30) references product(pcode), \
    pprice float(8,2) ,\
    pqty int(4) ,\
    Total double(8,2)\
);"
mycursor.execute(sql)
print(" SALES table created")
sql = "CREATE TABLE if not exists user (\
    uid char(6) PRIMARY KEY,\
    uname char(30) NOT NULL,\
    upwd char(30));"
mycursor.execute(sql)
print(" USER table created")

```

```

def list_database():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="1234
5",database="stock")
    mycursor=mydb.cursor()
    sql="show tables;"
    mycursor.execute(sql)
    for i in mycursor:
        print(i)

```

#change as per system

```
def add_order():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="12345",database="stock")
    mycursor=mydb.cursor()
    now = datetime.datetime.now()
    sql="INSERT INTO orders (orderid, orderdate, pcode, pprice, pqty, supplier, pcat) values (%s,%s,%s,%s,%s,%s,%s)"
    code=int(input("Enter product code :"))
    oid=now.year+now.month+now.day+now.hour+now.minute+now.second
    qty=int(input("Enter product quantity : "))
    price=float(input("Enter Product unit price: "))
    cat=input("Enter product category: ")
    supplier=input("Enter Supplier details: ")
    val=(oid,now,code,price,qty,supplier,cat)
    mycursor.execute(sql,val)
    mydb.commit()
```

```
def list_order():  
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123  
45", database="stock") #change as per system  
    mycursor=mydb.cursor()  
    sql="SELECT * from orders"  
    mycursor.execute(sql)  
    print("\t\t\t\t\tORDER DETAILS")  
    print("-"*85)  
    print("orderid      Date      Product code      price      quantity      Supplier  
Category")  
    print("-"*85)  
    for i in mycursor:  
        print(i[0],"\t",i[1],"\t",i[2],"\t ",i[3],"\t",i[4],"\t   ",i[5],"\t",i[6])  
    print("-"*85)
```

```
def db_mgmt( ):
    while True :
        print("\t\t\t 1. Database creation")
        print("\t\t\t 2. List Database")
```

```

        print("\t\t\t 3. Back (Main Menu)")
        p=int (input("\t\tEnter Your Choice :"))
        if p==1 :
            create_database()
        if p==2 :
            list_database()
        if p== 3 :
            break
def add_product():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
                                #change as per system
    mycursor=mydb.cursor()
    sql="INSERT INTO product(pcode,pname,pprice,pqty,pcat) values
(%s,%s,%s,%s,%s)"
    code=int(input("\t\tEnter product code :"))
    search="SELECT count(*) FROM product WHERE pcode=%s;"
    val=(code,)
    mycursor.execute(search,val)
    for x in mycursor:
        cnt=x[0]
    if cnt==0:
        name=input("\t\tEnter product name :")
        qty=int(input("\t\tEnter product quantity :"))
        price=float(input("\t\tEnter product unit price :"))
        cat=input("\t\tEnter Product category :")
        val=(code,name,price,qty,cat)
        mycursor.execute(sql,val)
        mydb.commit()
    else:
        print("\t\t Product already exist")
def update_product():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
    mycursor=mydb.cursor()
    code=int(input("Enter the product code :"))
    qty=int(input("Enter the quantity :"))
    sql="UPDATE product SET pqty=pqty+%s WHERE pcode=%s;"
    val=(qty,code)
    mycursor.execute(sql,val)

```

```

        mydb.commit()
        print("\t\t Product details updated")

def delete_product():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
    mycursor=mydb.cursor()
    code=int(input("Enter the product code :"))
    sql="DELETE FROM product WHERE pcode = %s;"
    val=(code,)
    mycursor.execute(sql,val)
    mydb.commit()
    print(mycursor.rowcount," record(s) deleted");
def search_product():

    while True :
        print("\t\t\t 1. List all product")
        print("\t\t\t 2. List product code wise")
        print("\t\t\t 3. List product category wise")
        print("\t\t\t 4. Back (Main Menu)")
        s=int (input("\t\t Enter Your Choice :"))
        if s==1 :
            list_product()
        if s==2 :
            code=int(input(" Enter product code :"))
            list_prcode(code)

        if s==3 :
            cat=input("Enter category :")
            list_prcat(cat)

        if s== 4 :
            break

def list_product():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
    mycursor=mydb.cursor()
    sql="SELECT * from product"

```



```

mycursor.execute(sql)
print("\t\t\t\t\t PRODUCT DETAILS")
print("\t\t\t\t\t", "-"*47)
print("\t\t\t\t\t code\t\t\t\t\t name\t\t\t\t\t price\t\t\t\t\t quantity\t\t\t\t\t category")
print("\t\t\t\t\t", "-"*47)
for i in mycursor:
    print("\t\t\t\t\t", i[0], "\t\t\t\t\t", i[1], "\t\t\t\t\t", i[2], "\t\t\t\t\t", i[3], "\t\t\t\t\t", i[4])
print("\t\t\t\t\t", "-"*47)

```

```

def list_prcode(code):
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
    mycursor=mydb.cursor()
    sql="SELECT * from product WHERE pcode=%s"
    val=(code,)
    mycursor.execute(sql,val)
    print("\t\t\t\t\t PRODUCT DETAILS")
    print("\t\t\t\t\t", "-"*47)
    print("\t\t\t\t\t code\t\t\t\t\t name\t\t\t\t\t price\t\t\t\t\t quantity\t\t\t\t\t category")
    print("\t\t\t\t\t", "-"*47)
    for i in mycursor:
        print("\t\t\t\t\t", i[0], "\t\t\t\t\t", i[1], "\t\t\t\t\t", i[2], "\t\t\t\t\t", i[3], "\t\t\t\t\t", i[4])
    print("\t\t\t\t\t", "-"*47)

```

```

def sale_product():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
    mycursor=mydb.cursor()
    pcode=input("Enter product code: ")
    sql="SELECT count(*) from product WHERE pcode=%s;"
    val=(pcode,)
    mycursor.execute(sql,val)
    for x in mycursor:
        cnt=x[0]
    if cnt !=0 :
        sql="SELECT * from product WHERE pcode=%s;"
        val=(pcode,)
        mycursor.execute(sql,val)

```

```

        for x in mycursor:
            print(x)
            price=int(x[2])
            pqty=int(x[3])
        qty=int(input("Enter no of quantity :"))
        if qty <= pqty:
            total=qty*price;
            print ("Collect Rs. ", total)
            sql="INSERT into sales values(%s,%s,%s,%s,%s,%s)"
            val=(int(cnt)+1,datetime.datetime.now(),pcode,price,qty,total)
            mycursor.execute(sql,val)
            sql="UPDATE product SET pqty=pqty-%s WHERE pcode=%s"
            val=(qty,pcode)
            mycursor.execute(sql,val)
            mydb.commit()
        else:
            print(" Quantity not Available")
    else:
        print(" Product is not available")

def list_sale():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
    mycursor=mydb.cursor()
    sql="SELECT * FROM sales"
    mycursor.execute(sql)
    print(" \t\t\tSALES DETAILS")
    print("-"*80)
    print("Sales id   Date   Product Code   Price           Quantity           Total")
    print("-"*80)
    for x in mycursor:
        print(x[0],"\t",x[1],"\t",x[2],"\t  ",x[3],"\t\t",x[4],"\t\t",x[5])
    print("-"*80)

def list_prcat(cat):
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
    mycursor=mydb.cursor()

```

```

print (cat)
sql="SELECT * from product WHERE pcat =%s"
val=(cat,)
mycursor.execute(sql,val)
clrscr()
print("\t\t\t\t\t PRODUCT DETAILS")
print("\t\t\t","-"*47)
print("\t\t\t code   name   price  quantity   category")
print("\t\t\t","-"*47)
for i in mycursor:
    print("\t\t\t",i[0],"\t",i[1],"\t",i[2],"\t  ",i[3],"\t\t\t",i[4])
print("\t\t\t","-"*47)

```

```

def add_user():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
    mycursor=mydb.cursor()
    uid=input("Enter email id :")
    name=input(" Enter Name :")
    paswd=input("Enter Password :")
    sql="INSERT INTO user values (%s,%s,%s);"
    val=(uid,name,paswd)
    mycursor.execute(sql,val)
    mydb.commit()
    print(mycursor.rowcount, " user created")

```

```

def list_user():
    mydb=mysql.connector.connect(host="localhost",user="root",passwd="123
45",database="stock")
    mycursor=mydb.cursor()
    sql="SELECT uid,uname from user"
    mycursor.execute(sql)
    clrscr()
    print("\t\t\t\t\t USER DETAILS")
    print("\t\t\t","-"*27)
    print("\t\t\t UID      name   ")
    print("\t\t\t","-"*27)
    for i in mycursor:

```

```
        print("\t\t",i[0],"\t",i[1])
    print("\t\t","-"*27)
```

```
def clrscr():
    print("\n"*5)
```

```
while True:
    clrscr()
    print("\t\t\t STOCK MANAGEMENT")
    print("\t\t\t *****\n")
    print("\t\t 1. PRODUCT MANAGEMENT")
    print("\t\t 2. PURCHASE MANAGEMENT")
    print("\t\t 3. SALES MANAGEMENT")
    print("\t\t 4. USER MANAGEMENT")
    print("\t\t 5. DATABASE SETUP")
    print("\t\t 6. EXIT\n")
    n=int(input("Enter your choice :"))
    if n== 1:
        product_mgmt()
    if n== 2:
        os.system('cls')
        purchase_mgmt()
    if n== 3:
        sales_mgmt()
    if n== 4:
        user_mgmt()
    if n==5:
        db_mgmt()
    if n== 6:
        break
```