

**VIDYA BHAWAN PUBLIC SCHOOL**



**PROJECT REPORT ON**

**GROCERY MANAGEMENT SYSTEM**

**SESSION: 2022-23**

**NAME : JAYDEEP SHRIMALI CLASS : 12TH( SCIENCE) ROLL NO. :**

**SUBJECT : COMPUTER SCIENCE(083) SUB.TEACHER : MRS. NEHA KATARIA**

# CERTIFICATE

This is to certify that **JAYDEEP SHRIMALI** a student of Class XII Science has satisfactorily completed the project Entitled “**Grocery Store Management**”, under my **Mrs. NEHA KATARIA Ma’am** guidance and supervision during the session 2022-2023.

## I appreciate his keen interest and sincere efforts in covering all details of the project in a very systematic manner. I am very pleased with his project.

**SUBJECT TEACHER PRINCIPAL EXAMINER**

# ACKNOWLEDGEMENT

## I would like to express my special thank of gratitude to my Computer Science teacher **Mrs. NEHA KATARIA Ma’am** for her able guidance and support and letting me work on this wonderful project .

I would also like to extend my deep gratitude towards our honorable Principal **Mrs. NEERJA JAIN Ma’am** fir providing us all the required facilities and services required.

**JAYDEEP SHRIMALI**

XII(Science)

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INTRODUCTION

The **Grocery Management System** is made up by the combination of modules that work in collaboration with each other and help in accomplishing the main task of the scheme.

The main task of this system is to simplify the work of user and help him in his guidance towards the best service given by the company.

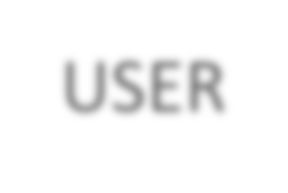
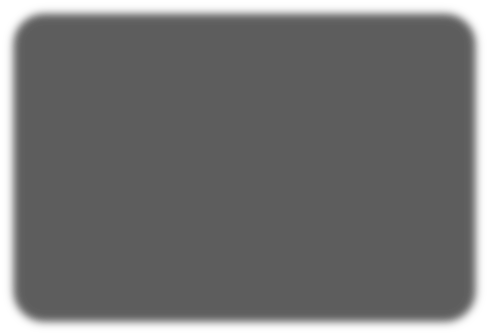
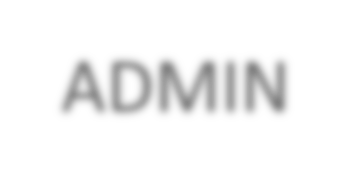
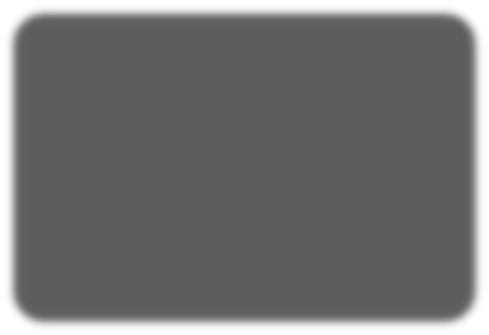
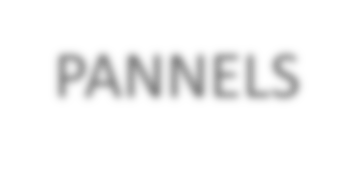
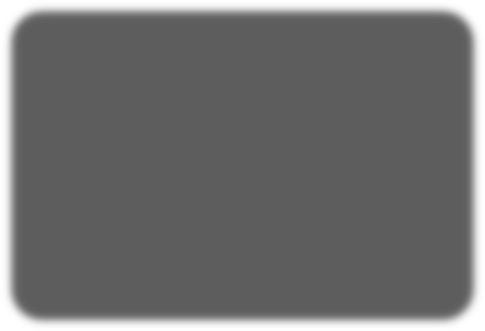
**WORKING**

1.) The basic functionality of the program is based on the execution of the program by using some relational databases, interface with python using MySQL connector and some modules.

2.) The program provides us with some services which are different for different person depending upon if the one is user or admin.

3.) The admin henceforth can use application for maintaining and manipulating data whereas the user can use application for viewing, ordering, and review the products to be sold in the store.

# STURCTURE OF PROJECT



PANNELS

ADMIN

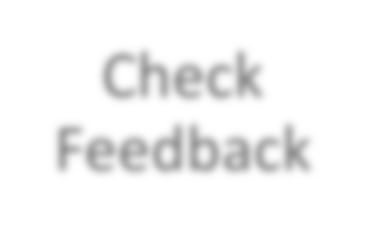
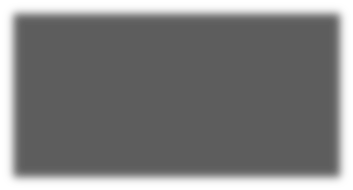
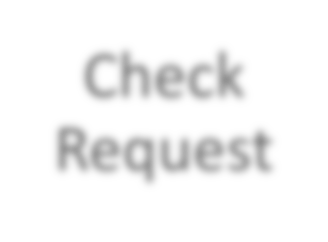
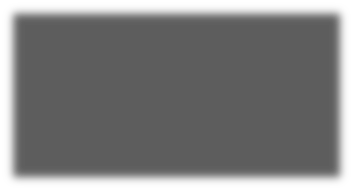
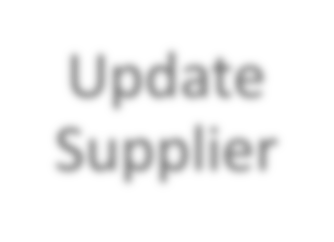
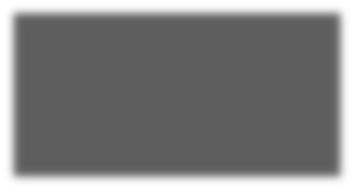
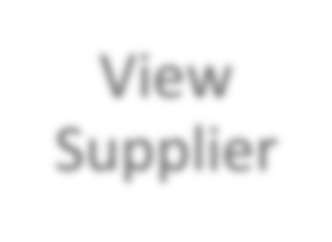
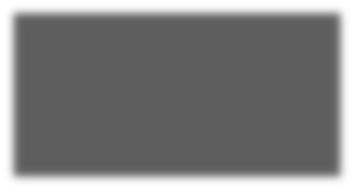
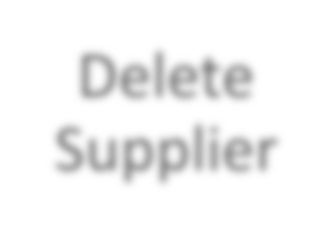
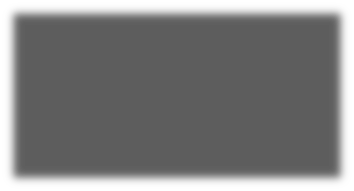
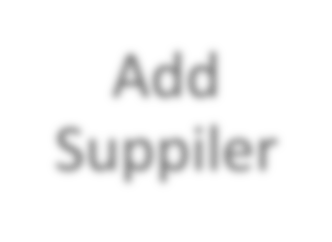
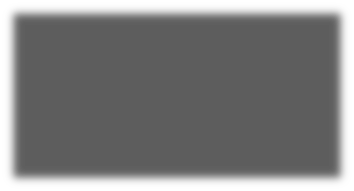
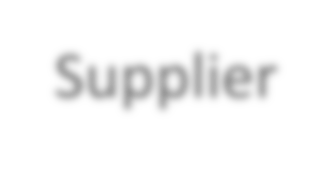
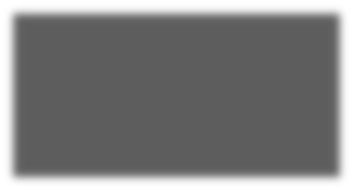
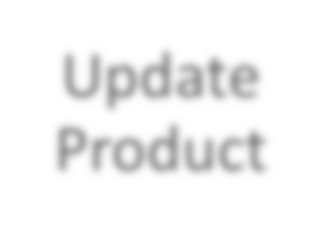
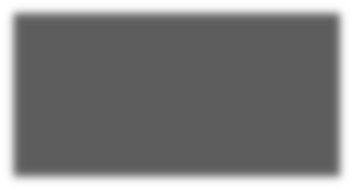
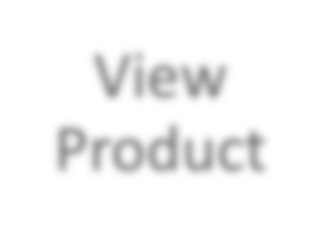
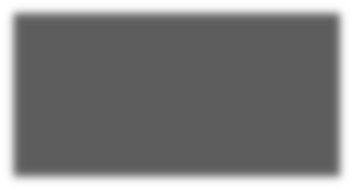
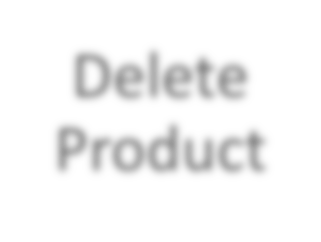
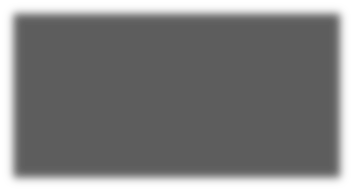
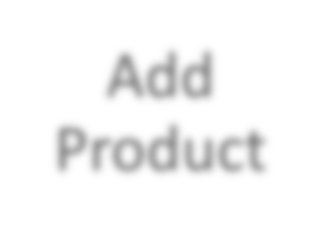
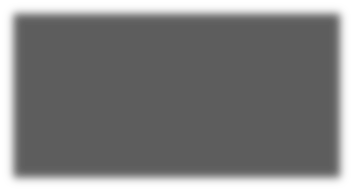
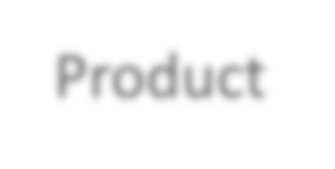
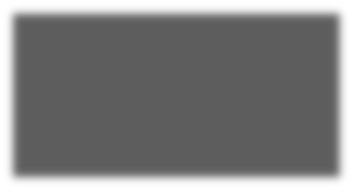
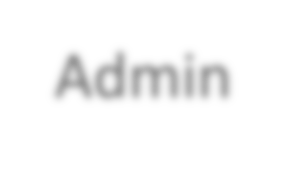
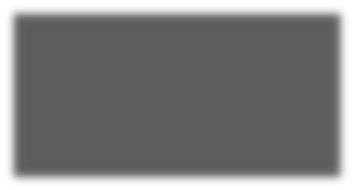
USER

This project has been divided into two panels:

1. **Admin Panel**
2. **User Panel**

# ADMIN PANEL

It contains all the functions that admin can perform on the application for its modification and elaborations.



Admin

Product

Supplier

Check Request

Check Feedback

Add Product

Add Suppiler

Delete

Product

Delete

Supplier

View Product

View Supplier

Update

Product

Update

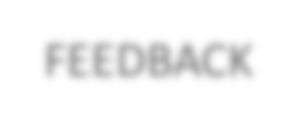
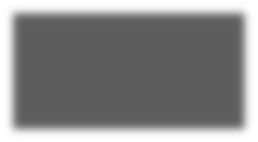
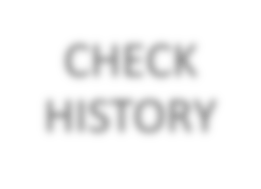
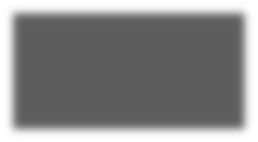
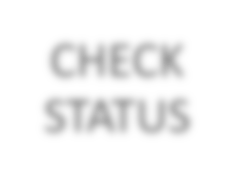
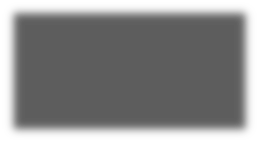
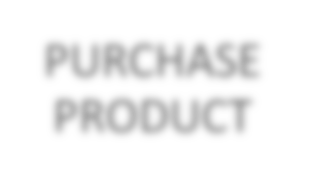
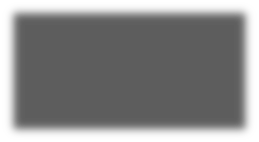
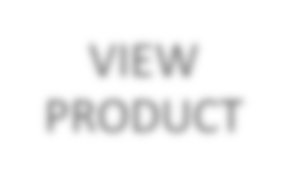
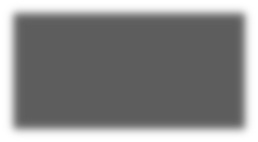
Supplier

### Admin function are divided into four types:

1. **Product Related Function :** includes all the functions that admin can use to work on product related activities.
2. **Suppliers Related Function :** includes all the functions that admin can use to work on supplier related activities.
3. **Check Requests :** helps the admin to accept or reject the requests.
4. **Check Feedback :** is used to check all the feedbacks given by user.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | USER | |  | | | | | |
|  | | | | | | |  | | | | | | |
|  |  | | |  | | |  | | |  | | |  |
| VIEW PRODUCT | |  | PURCHASE PRODUCT | |  | CHECK STATUS | |  | CHECK HISTORY | |  | FEEDBACK | |

User Functions in our project has been divided into 6 parts:



1. **View Product :** displays the items that are available in the store.
2. **Purchase Product :** enables the user to purchase the items from the store.

### **Check Status :** enables the user to check weather the request is accepted or rejected.

1. **Check History :** displays the history of all the items purchased yet.
2. **Give Feedback :** enables the user to give feedbacks.

# SOURCE CODE

1. from tabulate import tabulate
2. import mysql.connector
3. mydb=mysql.connector.connect(host="localhost",user="root",passwd="root")
4. mycursor=mydb.cursor()
5. mycursor.execute("CREATE DATABASE IF NOT EXISTS Grocery;")
6. mycursor.execute("use Grocery;")
7. mycursor.execute("CREATE TABLE IF NOT EXISTS Product(PRODUCT\_ID int primary key,\
8. PRODUCT\_NAME varchar(50) not null,\
9. PRODUCT\_PRICE int ,\
10. QUANTITY int,\
11. TOTAL\_AMT int);") 12.
12. mycursor.execute("CREATE TABLE IF NOT EXISTS Suppliers(SUPPLIER\_ID int primary key,\
13. SUPPLIER\_NAME varchar(50) not null,\
14. SUPPLIER\_PHNO VARCHAR(10),\
15. PRODUCT\_NAME VARCHAR(50));") 17.
16. mycursor.execute("CREATE TABLE IF NOT EXISTS User(USER\_ID int primary key,\
17. USER\_NAME varchar(50) not null,\
18. USER\_PHNO VARCHAR(10),\
19. ADDRESS VARCHAR(500),password varchar(10));") 22.
20. mycursor.execute("CREATE TABLE IF NOT EXISTS Purchase(Purchase\_id int primary key,PRODUCT\_ID int,\
21. PRODUCT\_NAME VARCHAR(50),\
22. QUANTITY int,\
23. PRODUCT\_PRICE int ,\
24. Total\_amount int,\
25. User\_id int,\
26. User\_name varchar(20),\
27. STATUS VARCHAR(50),\
28. foreign key(PRODUCT\_ID) references Product(PRODUCT\_ID),\
29. foreign key(User\_id) references User(USER\_ID)\ 33.);")

34.

1. mycursor.execute("CREATE TABLE IF NOT EXISTS Feedback(USER\_ID int primary key,\
2. USER\_NAME varchar(50) not null,\
3. FEEDBACK varchar(1000));") 38.

39.

40.

1. def admin\_add\_product():
2. while True:
3. id=input("Enter Product Id: ")
4. pnm=input("Enter Product Name: ")
5. price=input("Enter Rrice of Product: ")
6. qnt=input("Enter the Quantity of Product: ")
7. t\_amt=int(price)\*int(qnt)
8. mycursor.execute("INSERT INTO Product VALUES("+id+",'"+pnm+"',"+price+","+qnt+","+str(t\_amt)+");")
9. mydb.commit()
10. print("RECORD INSERTED")
11. print("")
12. add=input("do you want to insert more record Y/N: ")
13. if add.lower() == 'n':
14. break
15. def admin\_add\_suppliers():
16. while True:
17. id=input("Enter Supplier Id: ")
18. snm=input("Enter Supplier Name: ")
19. sphno = input("Enter Supplier Phone No: ")
20. pnm = input("Enter Product Name: ")
21. mycursor.execute("INSERT INTO Suppliers values("+id+",'"+snm+"','"+sphno+"','"+pnm+"');")
22. mydb.commit()
23. print("RECORD(s) INSERTED")
24. print("")
25. add = input("do you want to insert more record Y/N : ")
26. if add.lower() == 'n':
27. break
28. def admin\_del\_product():
29. id=input("enter PRODUCT\_ID whose record is to be deleted: ")
30. try:
31. mycursor.execute("delete from Purchase where Product\_Id="+id+";")
32. mycursor.execute("delete from Product where PRODUCT\_ID = " + id + ";")
33. print("RECORD DELETED!!!")
34. print("")
35. mydb.commit()
36. except Exception as e:
37. print("Written code doesn't exist!!")
38. print("") 82.

83.

84.

1. def admin\_del\_suppliers():
2. id=input("Enter SUPPLIER\_ID whose record is to be deleted: ")
3. try:
4. mycursor.execute("delete from suppliers where SUPPLIER\_ID = " + id

+ ";")

1. print("RECORD DELETED!!!")
2. print("")
3. mydb.commit()
4. except:
5. print("Written code doesn't exist!!")
6. print("") 95.

96.

1. def view\_product():
2. mycursor.execute("select \* from product;")
3. rn=mycursor.fetchall()
4. print("The Product details are as follows:") 101.

head=("PRODUCT\_ID","PRODUCT\_NAME","PRODUCT\_PRICE","QUANTITY","TOTAL\_AMT")

|  |  |  |
| --- | --- | --- |
| 102. |  | print(tabulate(rn,headers=head,tablefmt="mysql")) |
| 103. |  | print("") |
| 104. |  |  |
| 105. | def | user\_purchase(userid,usernm): |
| 106. |  | mycursor.execute("select \* from product;") |
| 107. |  | rn = mycursor.fetchall() |
| 108. |  | print("The Product details are as follows") |
| 109. |  | head = ("PRODUCT\_ID", "PRODUCT\_NAME", "PRODUCT\_PRICE", |
| "QUANTITY", "TOTAL\_AMT") | | |
| 110. | print(tabulate(rn, headers=head, tablefmt="mysql")) | |
| 111. | pid=input("Enter Product Id for Purchase: ") | |
| 112. | qnt = int(input("Enter the quantity of product: ")) | |
| 113. |  | |
| 114. | pnm=rn[0][1] | |
| 115. | price=rn[0][2] | |
| 116. | amt=str(qnt\*price) | |
| 117. | qnt=str(qnt) | |
| 118. | price=str(price) | |
| 119. | s="select count(\*) from purchase" | |
| 120. | mycursor.execute(s) | |

121. rn1=mycursor.fetchall()

122. purid=str(rn1[0][0]+1)

1. mycursor.execute("INSERT INTO Purchase values(" + purid + ", "+ pid + ",'" + pnm + "'," + qnt + ","+price+"," + amt + ","+userid+",'"+usernm+"','Request');")
2. mydb.commit()
3. print("RECORD(s) INSERTED")
4. print("") 127.

128.

1. def admin\_check\_request():
2. mycursor.execute("select \* from purchase where status

='Request';")

1. n = mycursor.fetchall()
2. c=len(n)
3. if c>0:
4. print("The Status details are as follows")
5. head = ("PURCHASE\_ID", "PRODUCT\_ID", "PRODUCT\_NAME", "QUANTITY", "PRODUCT\_PRICE","TOTAL\_AMOUNT","USER\_ID","USER\_NAME","STATUS")
6. print(tabulate(n, headers=head, tablefmt="mysql"))
7. y=input("Enter Purchase Id for Updating request")
8. x=input("Enter Accept or Reject")
9. sql = "update purchase set status='"+x.capitalize()+"' where Purchase\_id="+y+";"
10. mycursor.execute(sql)
11. mydb.commit()
12. print("REQUEST Updated")
13. print("")
14. else:
15. print("No Requested Records")
16. print("")
17. def admin\_view\_suppliers():
18. print("")
19. mycursor.execute("select \* from suppliers;")
20. rn=mycursor.fetchall()
21. print("The Suppliers details are as follows") 154.

head=("SUPPLIER\_ID","SUPPLIER\_NAME","SUPPLIER\_PHNO","PRODUCT\_NAME")

1. print(tabulate(rn, headers=head, tablefmt="mysql"))
2. print("") 157.
3. def admin\_update\_product():
4. inp=input("Enter the product id you want to update: ")
5. print("Select which column you want to upadte: \n"

oduct\_name =

|  |  |  |  |
| --- | --- | --- | --- |
| 161. | "1 : | | PRODUCT NAME \n" |
| 162. | "2 : | | PRODUCT PRICE \n" |
| 163. | "3 : | | QUANTITY \n" |
| 164. | "4 : | | TOTAL AMOUNT ") |
| 165. choice= input("Enter your choice: ") | | | |
| 166. | if | choice =="1": | |
| 167. |  | ch=input("Enter new PRODUCT NAME: ") | |
| 168. mycursor.execute("update product set pr | | | |

'"+ch+"'where product\_id= '"+inp+"';")

1. mydb.commit()
2. print("RECORD UPDATED")
3. print("")
4. elif choice =="2":
5. ch = input("Enter new PRODUCT PRICE: ")
6. mycursor.execute("update product set product\_price= '"+ch+"'where product\_id= '"+inp+"';")
7. mydb.commit()
8. print("RECORD UPDATED")
9. print("")
10. elif choice =="3":
11. ch = input("Enter new PRODUCT QUANTITY: ")
12. mycursor.execute("update product set quantity= '"+ch+"'where product\_id= '"+inp+"';")
13. mydb.commit()
14. print("RECORD INSERTED")
15. print("")
16. elif choice == "4":
17. ch = input("Enter new PRODUCT'S TOTAL AMOUNT: ")
18. mycursor.execute("update product set total\_amt = '" + ch + "'where product\_id= '" + inp + "';")
19. mydb.commit()
20. print("RECORD INSERTED")
21. print("")
22. else:
23. print("invalid choice!!!")
24. print("")
25. def admin\_update\_suppliers():
26. inp = input("Enter the supplier id you want to update: ")
27. print("Select which column you want to upadte: \n"
28. "1 : SUPPLIER NAME \n"
29. "2 : SUPPLIER PHONE NO. \n"
30. "3 : PRODUCT NAME ") 206.
31. choice = input("Enter your choice: ")
32. if choice == "1":
33. ch = input("Enter new SUPPLIER NAME: ")
34. mycursor.execute("update suppliers set supplier\_name = '" + ch + "'where supplier\_id= '" + inp + "';")
35. mydb.commit()
36. print("RECORD INSERTED")
37. print("")
38. elif choice == "2":
39. ch = input("Enter new SUPPLIER PH.NO. : ")
40. mycursor.execute("update suppliers set supplier\_phno= '" + ch

+ "'where supplier\_id= '" + inp + "';")

1. mydb.commit()
2. print("RECORD INSERTED")
3. print("")
4. elif choice == "3":
5. ch = input("Enter new PRODUCT NAME: ")
6. mycursor.execute("update suppliers set product\_name= '" + ch

|  |  |  |  |
| --- | --- | --- | --- |
| +  225. | "'where | | supplier\_id= '" + inp + "';")  mydb.commit() |
| 226. |  | | print("RECORD INSERTED") |
| 227. |  | | print("") |
| 228. |  | | else: |
| 229. |  | | print("invalid choice!!!") |
| 230. |  | | print("") |
| 231. |  | |  |
| 232. |  | |  |
| 233. |  | |  |
| 234. | def | | user\_details(): |
| 235. |  | | id=input("Enter USER ID: ") |
| 236. |  | | nm=input("Kindly enter your NAME: ") |
| 237. |  | | ph=input("Enter your CONTACT NUMBER: ") |
| 238. |  | | ad=input("Enter your ADDRESS: ") |
| 239. |  | | passwd=input("Enter Password") |
| 240. |  | | mycursor.execute("INSERT INTO user values(" + id + ",'" + nm + |
| "','" | | + ph + "','" + ad + "','"+passwd+"');") | |
| 241. | | mydb.commit() | |

1. print("YOU ARE NOW MEMBER OF OUR STORE! ")
2. print("")
3. print("") 245.
4. def user\_check\_status(user\_id):
5. user\_id=str(user\_id)
6. mycursor.execute("select purchase\_id,product\_name,status from purchase where User\_Id="+user\_id+";")
7. rn = mycursor.fetchall()
8. print("The USER details are as follows")
9. head = ("PURCHASE\_ID", "PRODUCT\_NAME", "STATUS")
10. print(tabulate(rn, headers=head, tablefmt="mysql"))
11. print("") 254.
12. def user\_check\_history(user\_id):
13. user\_id=str(user\_id)
14. sql = "select purchase\_id,product\_id,product\_name,quantity,product\_price,total\_amount from purchase where User\_Id="+user\_id+" and status='accept';"
15. mycursor.execute(sql)
16. rn = mycursor.fetchall()
17. print("The USER HISTORY are as follows")
18. head = ("PURCHASE\_ID", "PRODUCT\_ID","PRODUCT\_NAME", "QUANTITY","PRODUCT\_PRICE","TOTAL\_AMOUNT")
19. print(tabulate(rn, headers=head, tablefmt="mysql"))
20. print("") 264.

265.

1. def user\_feedback():
2. u=input('Enter Your User Id: ')
3. nm=input('Enter Your Name: ')
4. fb=input("Kindly Enter Your Feedback: ")
5. mycursor.execute("INSERT INTO Feedback values(" + u + ",'" + nm + "','"+fb+"');")

|  |  |  |
| --- | --- | --- |
| 271. |  | mydb.commit() |
| 272. |  | print("RECORD(s) INSERTED\nTHANKS FOR YOUR SUGGESTIONS") |
| 273. |  | print("") |
| 274. |  |  |
| 275. |  |  |
| 276. | def | admin\_view\_feedback(): |
| 277. |  | print("") |
| 278. |  | mycursor.execute("select \* from feedback;") |
| 279. |  | rn = mycursor.fetchall() |
| 280. |  | print("The Feedback Details are as follows") |
| 281. |  | head = ("USER\_ID", "USER\_NAME", "FEEDBACK") |

1. print(tabulate(rn, headers=head, tablefmt="mysql"))
2. print("") 284.

285.

1. while True:
2. print("1: Admin")
3. print("2: User")
4. ch=int(input("Enter your choice: "))
5. if ch==1:
6. st=input("Enter Admin password: ")
7. choice="Y"
8. while st=="admin" and choice=="Y" or choice=="y": 294.
9. print("Welcome to Admin Panel")
10. print("1: Add Suppliers: ")
11. print("2: Add Product: ")
12. print("3: Delete Suppliers: ")
13. print("4: Delete Products: ")
14. print("5: View Products: ")
15. print("6: View Suppliers: ")
16. print("7: Update Suppliers: ")
17. print("8: Update Products: " )
18. print("9:Check Request: ")
19. print("10:View Feedback: ")
20. print("11: Exit")
21. choice=int(input("Enter Your choice: "))
22. if choice==1:
23. admin\_add\_suppliers()
24. elif choice==2:
25. admin\_add\_product()
26. elif choice==3:
27. admin\_del\_suppliers()
28. elif choice==4:
29. admin\_del\_product()
30. elif choice == 5:
31. view\_product()
32. elif choice == 6:
33. admin\_view\_suppliers()
34. elif choice == 7:
35. admin\_update\_suppliers()
36. elif choice == 8:
37. admin\_update\_product()
38. elif choice == 9:
39. admin\_check\_request()
40. elif choice == 10:
41. admin\_view\_feedback()
42. elif choice == 11:
43. break
44. else:
45. print("Invalid Choice")
46. choice=input("Enter Y or y for continue ")
47. elif ch==2:
48. print("1: Registration")
49. print("2: Login")
50. ch1=int(input("Enter your choice"))

337. if ch1==1:

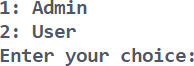
1. user\_details()
2. elif ch1==2:
3. uid=input("Enter Your User Id")
4. upass=input("Enter Your Password")
5. mycursor.execute("select count(\*),User\_name from user where USER\_ID="+uid+" and password='"+upass+"';")
6. rnuser = mycursor.fetchall()
7. cnt = rnuser[0][0]
8. nm=rnuser[0][1]
9. choice="y"
10. while cnt > 0 and choice=="y"or choice=="Y":
11. print("Welcome "+nm)
12. print("1: View Products")
13. print("2: Purchase Products")
14. print("3: Check Status")
15. print("4: Check History")
16. print("5: Feedback")
17. print("6: Exit")
18. ch2=int(input("Enter Your Choice"))

356. if ch2==1:

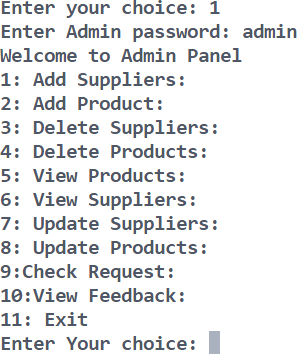
1. view\_product()
2. elif ch2==2:
3. user\_purchase(uid,nm)
4. elif ch2==3:
5. user\_check\_status(uid)
6. elif ch2==4:
7. user\_check\_history(uid)
8. elif ch2==5:
9. user\_feedback()
10. elif ch2==6:
11. break
12. else:
13. print("Invalid Choice")
14. choice = input("enter y or Y to continue ")

# OUTPUTS

#### Main Menu:

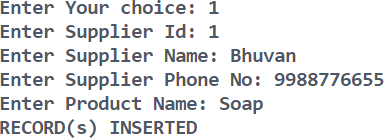


Admin Menu:

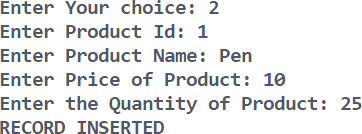


#### Admin Function:

1. Add Supplier



1. Add product:



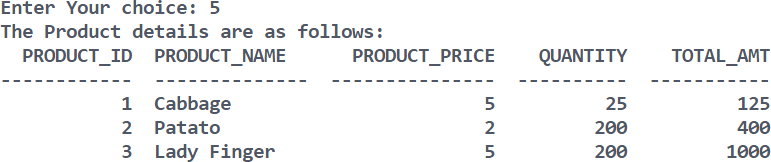
1. Delete Suppliers:



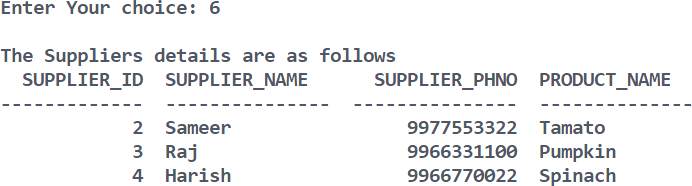
1. Delete Products:



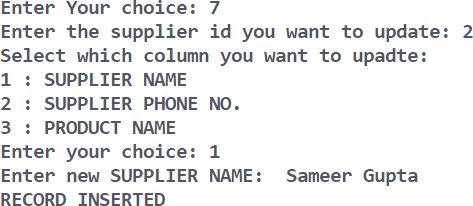
1. View Products:



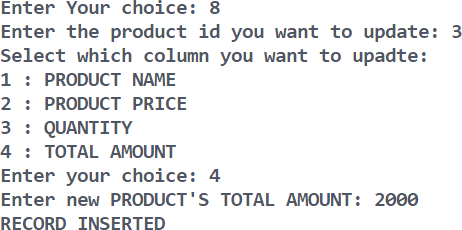
1. View Suppliers:



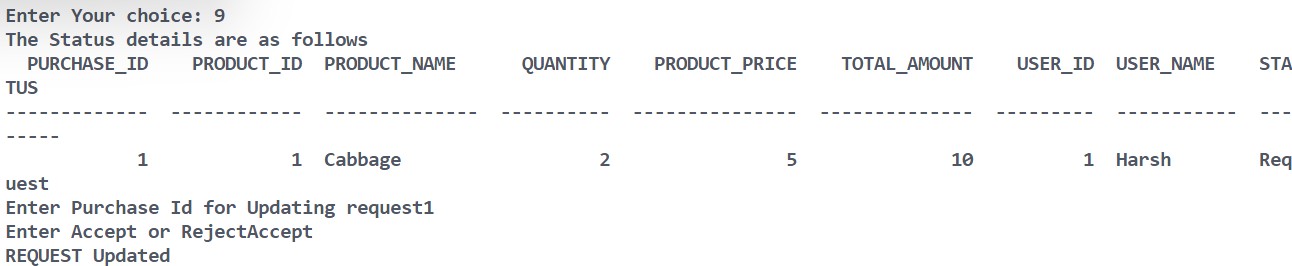
1. Update Suppliers:



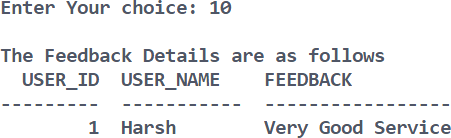
1. Update Products:



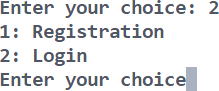
1. Check Request:



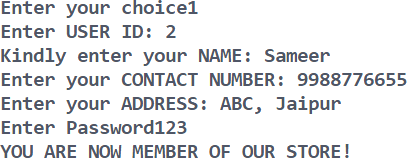
1. Check Feedback



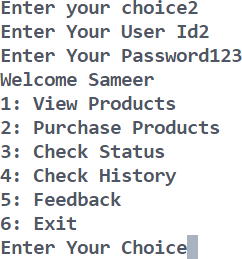
#### User Menu:



Registration:

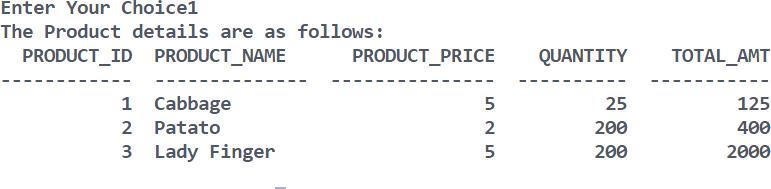


Login:

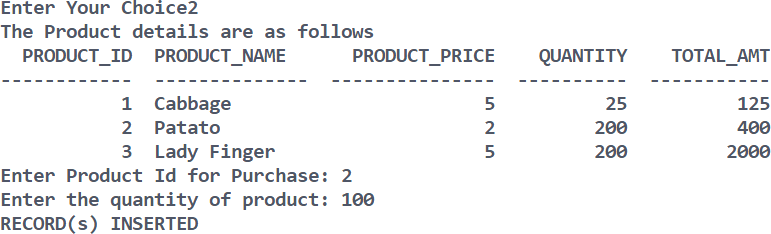


#### User Functions:

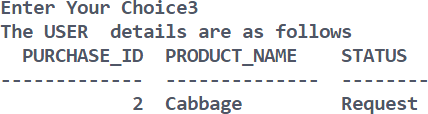
1. View Products:



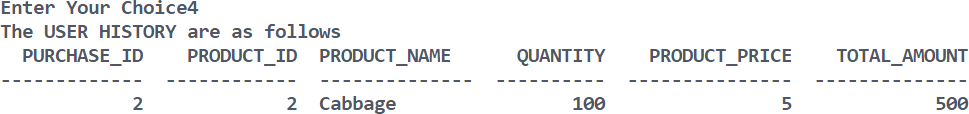
1. Purchase Products:



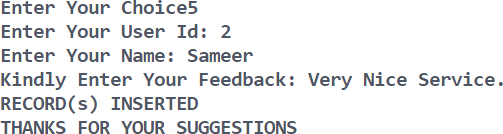
1. Check Status:



1. Check History:

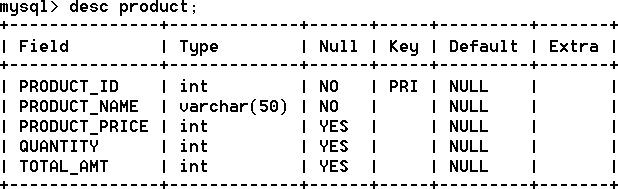


1. Feedback:

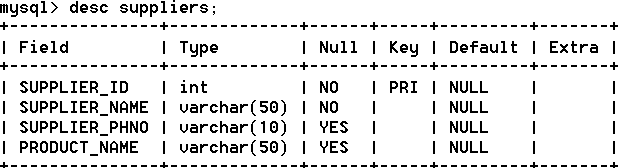


# TABLE STRUCTURES

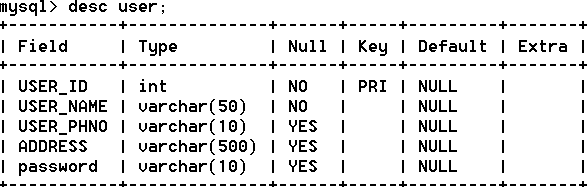
#### Product Table:



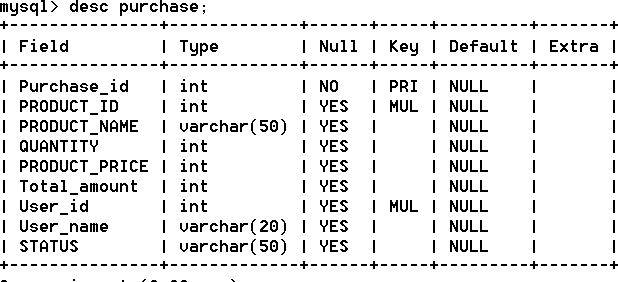
**Supplier Table:**



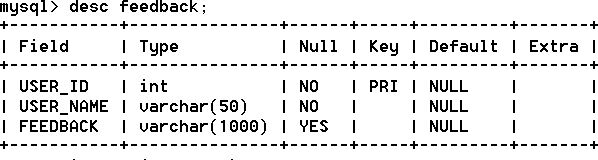
#### User Table:



**Purchase Table:**



**Feedback Table:**



# BIBLIOGRAPHY

1.) [www.greeksforgreeks.org](http://www.greeksforgreeks.org/)

2.) Help from textbook i.e. computer science class XII by Preeti Arora.

3.) Help from Subject Teacher.