

Subject : Programming for Scientific Computing(python)

Course Code : 2CS404

Innovative Assignment

Requirements:

❖ Softwares:

- Python 3.7 or above
- Oracle 11g
- Tkinter
- Python IDE (Spyder Recommended) – using IDE it will be easy to execute the program.

❖ Other Installations: (Packages /modules)

- pip install Pillow
- If you have both Pythons installed and want to install this for Python3: python3 -m pip install Pillow
- pip install cx_Oracle
- if any error occurs install the module which is required for the database installed in your system.

• Database Table:

- Make Sure tables are created before the executing the program.
- Use the following query for the table creation:
 - Table for Stock Data
create table madd454(itemid varchar2(10),itemname varchar2(20),brand varchar2(10),quantity varchar2(10),priceperquantity varchar2(20));
 - Table for Customer Data
create table madd4541(name varchar2(30),itemname varchar2(30),contactno varchar2(16) ,dat varchar2(15),quantity varchar2(10),bill varchar2(15));
- In line number 7 in main.py file database is connected to python program
con=cx_Oracle.connect("username/password@localhost")
write the username and password of oracle database in the above line of code.
Same changes required in customer1.py (line number 13) and stock_data.py (line number 7)

❖ Note:

- Inside the code make sure that path of the photos used are set properly.
- Photos are included in the zip file (don't modify the name of any file).

Usage Details :

- On Running the main.py the program will start.

- The login page appears ,and administrator has to login to the software from the login page .
- By default , Username: “admin” and password: “123”.It can be changed from the code.
- To run the program always run the “main.py” file.
- After login ,the welcome page appears on which there are two options: Stock Data and Customer Data.
- Press the button of whatever data you want to manage.
 - ❖ Inside Stock Data
 1. Add Item: it has the feature to add details of itemid , itemname ,brand , Quantity and price per quantity. Add the data as you wish which will be stored in the database.
 2. Search item: By entering the item-id , the all the Data/Record of that item will be displayed .
 3. Available item : In this section, all the data and record of the available Stock will be displayed .
 4. Main Menu: On clicking on this button ,it will bring back to the Welcome page.
 - ❖ Customer Data
 1. Add record: Inside this , there is feature to add Name of customer , The item /product that was purchased by customer , Contact Number , the date of purchase and the Quantity of product purchased.(Also adding the data of quantity of product purchased will deduct the same amount of quantity from the available stock data)
 2. Display : It will display all the records of the customer and related data about the purchase made by the customer.
 3. Search : By entering the name of the customer , all the records related to that name will be displayed.
 4. Main Menu: On clicking on this button ,it will bring back to the Welcome page.

Features:

- Admin login to access the GUI program.
- Add stock data like : item-ID , Name of item ,Brand , Quantity and Price per quantity.
- Display record/data of the available stock.
- Search record/data by entering the id.
- Add Customer’s records like Name,Details of product purchase, Quantity purchased, Contact info, etc.
- The quantity of product which are purchased are deducted from available stock.
- Display record/data of the customer.
- Search record/data of customer by entering the name.
- Can navigate back to the welcome page from any other page.
- If the data of product is added again then it will be added to the previous stock.

OUTPUT/SCREENSHOT:

LOGIN PAGE

Login Page

Login

Username

Password

Login

Welcome

Login to access

WELCOME PAGE:

Welcome Page

Electronic Store Data Management & Customer Record

Stock Data

Customer Data

STOCK DATA:

Stockdata

Add Item

Search Item

Available Item

<< Main Menu

ItemId :

105

ItemName :

OnePlus - 10

Brand:

One Plus

Quantity:

50

Price per Quantity:

32000

Add

Reset

Stockdata

Add Item

Search Item

Available Item

<< Main Menu

Item-Id :

105

Enter

Reset

Id	Name	Brand	Quantity	Priceperquantity
105	OnePlus - 10	One Plus	50	32000

Stockdata

Add Item

Search Item

Available Item

<< Main Menu

Id	Name	Brand	Quantity	Priceperquantity
100	hp pavillion	hp	790	65000
105	OnePlus - 10	One Plus	50	32000
102	Canon EOS - 200D	Canon	30	40000

Customer Data:

Customer Data

Add Record

Display

Search

<< Main Menu

Name

Phone Merchant

Item Name

OnePlus - 10

Contact no

9876543210

Date

07-07-2020

Quantity

20

Add

Customer Data

Add Record

Display

Search

<< Main Menu

Name	Itemname	Number	Date	Quantity	Bill
dhruv	hp pavillion	1234567890	20-02-2020	10	650000
deep	OnePlus - 10	9998887777	25-12-2020	10	320000
Krushang	Canon EOS - 200D	8877995544	01-01-2021	8	320000
Phone Merchant	OnePlus - 10	9876543210	07-07-2020	20	640000

Customer Data

Add Record

Display

Search

<< Main Menu

Search by Name:

search

reset

Name	Itemname	Number	Date	Quantity	Bill
dhruv	hp pavillion	1234567890	20-02-2020	10	650000

Team Details:

19BCE157 – PARMAR KRUSHANG S.

19BCE162 – PATEL DEEPKUMAR N.

19BCE164 – PATEL DHRUVKUMAR D.