deltaStoreManager

Python Project Report

TOPIC: Store Management

Made by Pranav Balaji

Class: XI – A

ACKNOWLEDGMENT:

This is to certify that Pranav Balaji of Apeejay School, Noida (Class: 11-A) has created a project on the topic "Store Management", called as the "deltaStoreManager".

He has generated this report after a lot of hard work. The report has been created under the guidance of the teacher Mrs. Sujata Bhardwaj and qualifies the benchmarks for the Python Project.

ABOUT THE PROJECT:

The project is focussed on being an all-rounder solution for shops to handle their billing, customers and record-keeping needs.

The project asks the user to select from 5 options, namely:

- BILLING MODE
- NEW CUSTOMER REGISTRATION MODE
- VIEW ALL REGISTERED CUSTOMERS MODE
- VIEW ALL SALES RECORDS MODE
- EXIT PROGRAM OPTION

THIS PROJECT INCLUDES:

The same has been discussed in brief-detail below:

In the billing mode, the user is asked to enter the customer's I.D. (if registered), and then asks for the number of items being purchased. Then it asks the user to enter each product's code, followed by the tax and discount amount (can be zero) to be applied. The total amount is subsequently printed.

In the customer registration mode, the user is asked to enter the customer's new I.D., full-name and email contact. The same is inserted into the SQL database.

In the view all registered customers mode, the program contacts the SQL database and displays the complete table of registered customers.

In the view all sales records mode, the program first asks the user to authorize the event by asking for a password (default = "root"). Upon successful authenication, the program opens the sales log externally, with the NotePad application (whichever app the system has installed to open .txt files by default would be used).

Upon selecting the fifth – exit option, the program exits.

<h1 style="text-align:center">FUNCTIONS USED:</h1>

from datetime import datetime

- A Python in-built function to display the system's date and time.

import mysql.connector

- A function to connect and interact with SQL databases.

import time

- A Python in-built function used to specify delays in the program.

import os

- A Python in-built function used to open external applications.

def mainmenu()

- Self-defined function to display the main-menu of the menu-driven program.

def inserter()

- Self-defined funciton to take values from the user and insert them into the SQL database selected.

<h1 style="text-align:center">HARDWARE USED:</h1>

- CPU
- SSD or HDD
- RAM
- NETWORK (if using a non-local database)

<h1 style="text-align:center">SOFTWARE USED:</h1>

- Microsoft Windows 10
- Microsoft Office Word
- Microsoft Visual Studio
- GitHub by Microsoft

```
C:\windows\py.exe
Welcome to the delta Electronics Store!
Enter:
'1' to GENERATE A BILL
'2' to REGISTER A CUSTOMER,
'3' to VIEW ALL CUSTOMERS,
'4' to VIEW GENERATED BILLS,
and '5' to exit the system.
--------------------------------------------------


Enter your choice now: _
```

HOME MENU : Initial boot-time screen

```
C:\windows\py.exe
Welcome to the delta Electronics Store!
Enter:
'1' to GENERATE A BILL
'2' to REGISTER A CUSTOMER,
'3' to VIEW ALL CUSTOMERS,
'4' to VIEW GENERATED BILLS,
and '5' to exit the system.
--------------------------------------------------


Enter your choice now: 5
Exiting system now::
```

EXIT OPTION: Option 5

```
C:\windows\py.exe

Welcome to the delta Electronics Store!
Enter:
'1' to GENERATE A BILL
'2' to REGISTER A CUSTOMER,
'3' to VIEW ALL CUSTOMERS,
'4' to VIEW GENERATED BILLS,
and '5' to exit the system.
----------------------------------------------


Enter your choice now: 1

Billing MODE:

Enter customer ID if already registered; else press enter: 147
Enter the number of items: 2
Enter the item code: del37
Product purchased:  deltaSupport SHERPAELITE Phone Charger 30W  costing:  1097
---
Enter the item code: del4
Product purchased:  Redmi K20 PRO  costing:  25000
---
Enter the net tax %: 18
18 % NET TAX - Incoicing!
Enter the discount %: 17
17 % NET DISCOUNT - Invoicing!
Please Wait....... Billing.......
BILL NUMBER:  1 ; the total bill is:  25559.4018


Welcome to the delta Electronics Store!
Enter:
'1' to GENERATE A BILL
'2' to REGISTER A CUSTOMER,
'3' to VIEW ALL CUSTOMERS,
'4' to VIEW GENERATED BILLS,
and '5' to exit the system.
----------------------------------------------


Enter your choice now:
```
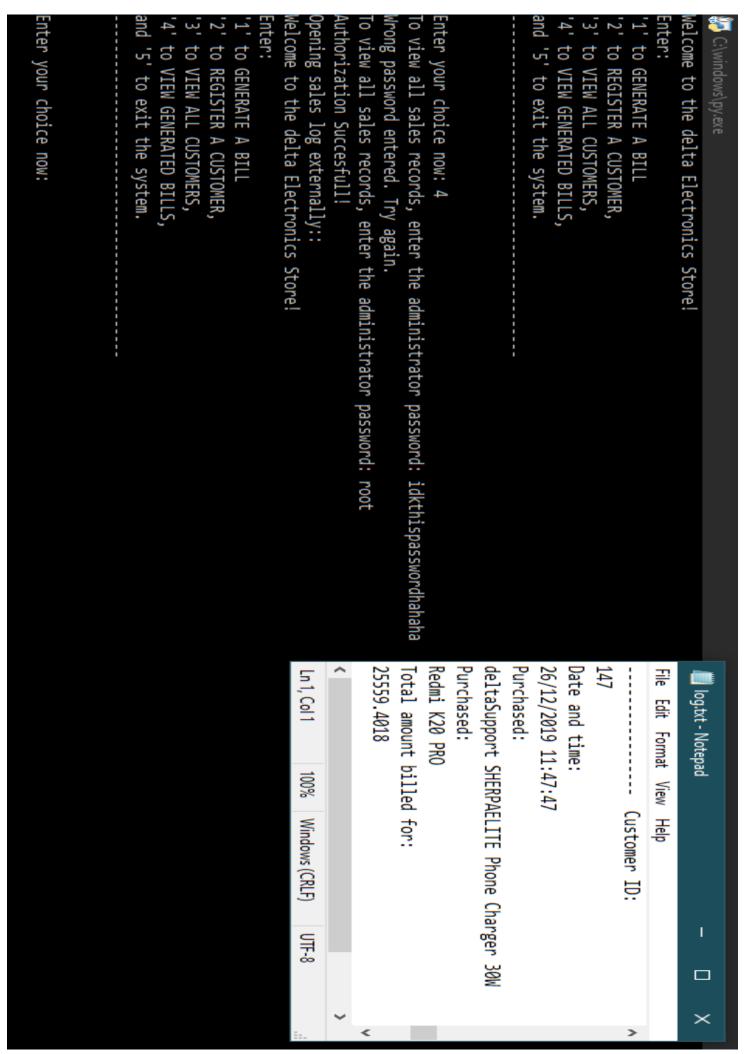
GENERATE A BILL – Option 1

```
C:\windows\py.exe

Welcome to the delta Electronics Store!
Enter:
'1' to GENERATE A BILL
'2' to REGISTER A CUSTOMER,
'3' to VIEW ALL CUSTOMERS,
'4' to VIEW GENERATED BILLS,
and '5' to exit the system.
---------------------------------------------


Enter your choice now: 2
Loading server connection.......
Enter the customer's customer ID: 17
Enter the customer's name: Pranav Balaji
Enter the customer's E-mail ID: balaji.pranav@outlook.in
Customer registered successfully! - deltaDatabaseHandler
---------------------------------------
Welcome to the delta Electronics Store!
Enter:
'1' to GENERATE A BILL
'2' to REGISTER A CUSTOMER
```

REGISTER A CUSTOMER – Option 2

```
C:\windows\py.exe

Welcome to the delta Electronics Store!
Enter:
'1' to GENERATE A BILL
'2' to REGISTER A CUSTOMER,
'3' to VIEW ALL CUSTOMERS,
'4' to VIEW GENERATED BILLS,
and '5' to exit the system.
---------------------------------------------


Enter your choice now: 3

The registered customers are:
(0, 'admeme', 'balaji.pranav@outlook.in')
(1, 'test admeme', 'codeone2309@gmail.com')
(2, 'Pranav Balaji', 'balaji.pranav@outlook.in')
(3, 'test_admeme', 'admeme@thisisameme.com')
(4, 'J.A.R.V.I.S.', 'jarvis@admemenetwork.com')
(5, 'Pranav Balaji', 'sd hdsf')
```

VIEW ALL REGISTERED CUSTOMERS – Option 3

```
Welcome to the delta Electronics Store!

Enter:
'1' to GENERATE A BILL
'2' to REGISTER A CUSTOMER,
'3' to VIEW ALL CUSTOMERS,
'4' to VIEW GENERATED BILLS,
and '5' to exit the system.
--------------------------------------------

Enter your choice now: 4
To view all sales records, enter the administrator password: idkthispasswordhahaha
Wrong password entered. Try again.
To view all sales records, enter the administrator password: root
Authorization Succesfull!
Opening sales log externally::
Welcome to the delta Electronics Store!

Enter:
'1' to GENERATE A BILL
'2' to REGISTER A CUSTOMER,
'3' to VIEW ALL CUSTOMERS,
'4' to VIEW GENERATED BILLS,
and '5' to exit the system.

Enter your choice now:
```

log.txt - Notepad

File Edit Format View Help

```
----------------- Customer ID:
147
Date and time:
26/12/2019 11:47:47
Purchased:
deltaSupport SHERPAELITE Phone Charger 30W
Purchased:
Redmi K20 PRO
Total amount billed for:
25559.4018
```

Ln 1, Col 1   100%   Windows (CRLF)   UTF-8

VIEW ALL GENERATED BILLS (SALES LOG/ RECORD) – Option 4

deltaStoreManager

GitHub:

This program repository has also been uploaded to the code sharing platform, GitHub:

Link to repository: deltaonealpha.github.io/dsmsapl

BIBLIOGRAPHY:

Works sighted from:

- StackOverflow: www.stackoveflow.com
- Google: www.google.com
- Core Python Programming by R. Nageshwar Rao

Thank You
Created by Pranav Balaji
Python Project Class – XI