



REPORT FOR ONLINE RETAIL APPLICATION DATABASE PYTHON PROGRAMMING (INT 213)

Name : Piyush

Registration number : 12012501

Name : Adarsh Kumar

Registration number : 12006194

Program : Btech. CSE

Semester : 3rd

School : School of Computer Science and Engineering

Name of university : Lovely Professional University

Date of submission : 10th NOVEMBER, 2021

ONLINE RETAIL APPLICATION DATABASE

10th NOVEMBER, 2021

ABSTRACT: -

The online retail application database is a desktop application that keeps track of all the transaction and generates a bill for all the purchased goods. It makes it very easy for the retailer to keep track of his inventories, product, sales etc.

It makes it very easy for both, the retailer as well as the employee to easily keep all the track and monitor the business with significantly less struggle. This system is really effective and time saving, which makes it very efficient.

Acknowledgement:- We express our deep sense of gratitude to our faculty – Mrs. Pooja Rana, for valuable guidance and suggestions, keen interest and through encouragement extended throughout period of project work. We consider ourselves lucky enough to get such a good project. This project would add as an asset to our academic profiles. We express our thanks to all those who contributed for successful completion of our project work.

Introduction & objective

The ‘Online Retail Application Database’ Interface is targeted to the retailer-employee solution, where the retailer has complete awareness of his goods and inventory. The admin can enjoy the benefit of tracking business on his fingertips, which includes all the information of the employees, billing invoices, inventory and more.

The System Involves

- This interface includes all the information and access about retailer's business from his employees, to his products and his billings.
- This system acts as a standard interface which helps the client to stay updated and regularly monitor their business.
- The system offers complete flexibility for the retailer to make changes as per their wish.
- In the backend, system will take care of the entire obligation required in order to carry on transaction smoothly.

Purpose of the project

Its purpose is to create a portal where every retailer/ business owner can keep track of all the transaction and generates a bill for all purchased goods.

Team members: -

Piyush

Contributions:

1. Coding (joined)
2. Sqlite (joined)
3. GUI (First window, Admin section)
4. Report

Adarsh Kumar

Contributions:

1. Coding (joined)
2. Sqlite (joined)
3. GUI (First window, Employee section)
4. Report

Libraries :-

1. tkinter

tkinter is the standard GUI library for Python. Python when combined with tkinter provides a fast and easy way to create GUI applications.

tkinter provides a powerful object-oriented interface to the Tk GUI toolkit. Import the tkinter module.

2. sqlite

SQLite is a C-language library that implements a SQL database engine that is relatively quick, serverless, and self-contained, high-reliable. SQLite is the most commonly used database engine in the test environment

3. random

This module implements pseudo-random number generators for various distributions. For integers, there is uniform selection from a range. For sequences, there is uniform selection of a random element, a function to generate a random permutation of a list in-place, and a function for random sampling without replacement.

4. re

This module provides regular expression matching operations similar to those found in Perl. Both patterns and strings to be searched can be Unicode strings ([str](#)) as well as 8-bit strings ([bytes](#)). However, Unicode strings and 8-bit strings cannot be mixed: that is, you cannot match a Unicode string with a byte pattern or vice-versa; similarly, when asking for a substitution, the replacement string must be of the same type as both the pattern and the search string.

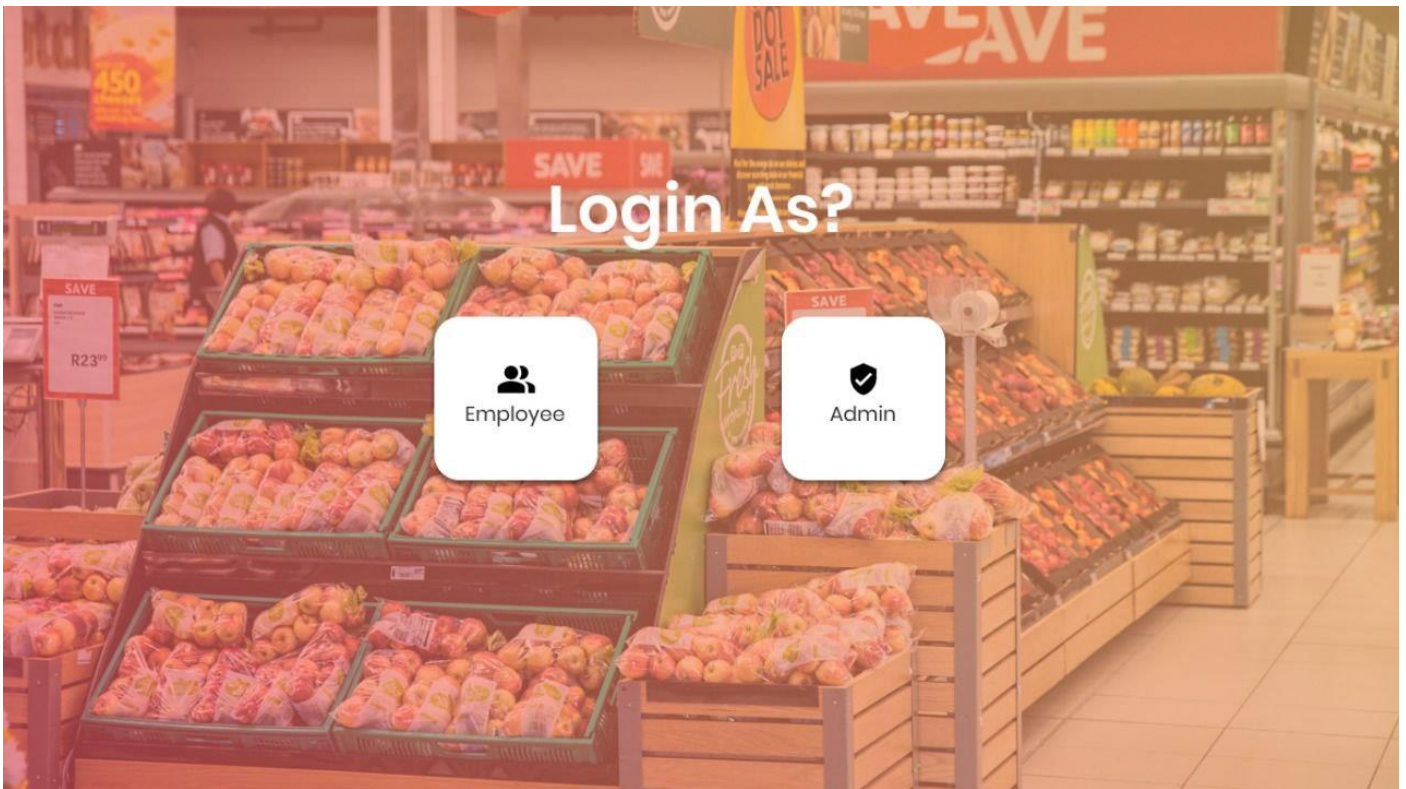
5. time

This module provides various time-related functions. For related functionality, see also the [datetime](#) and [calendar](#) modules.

Screenshots:

Login page:

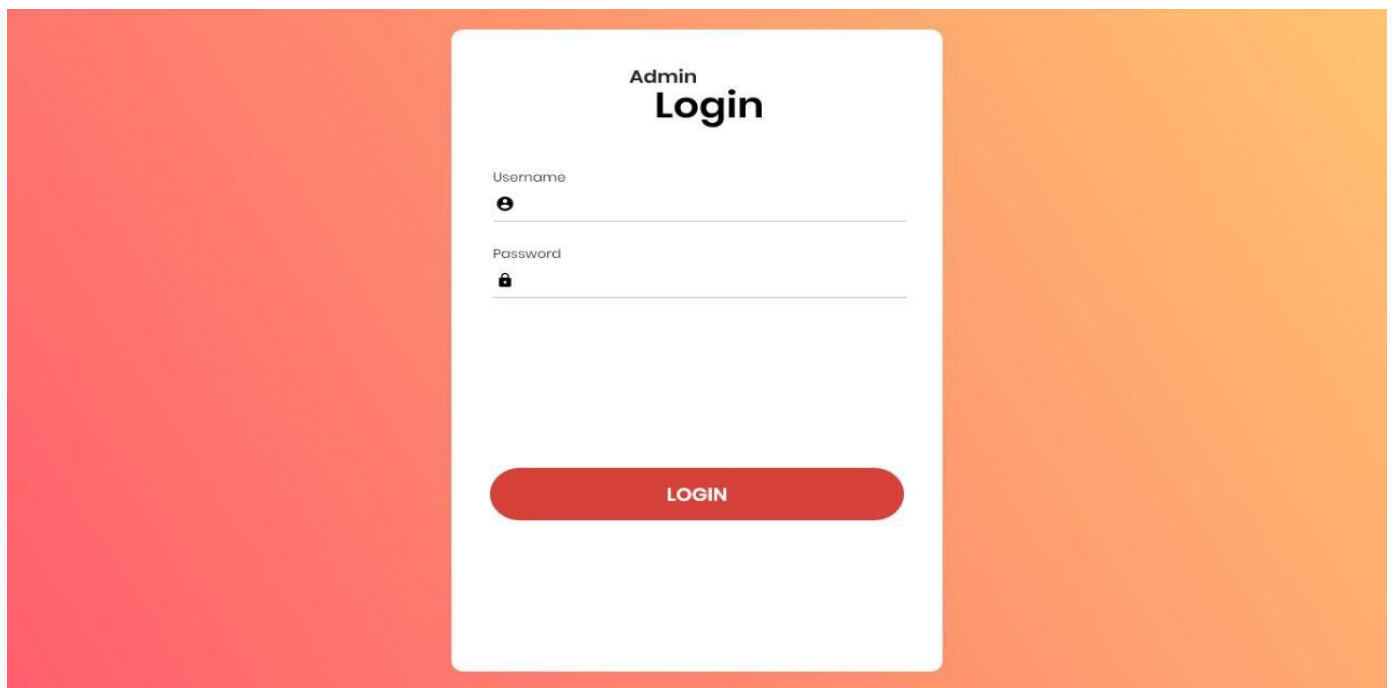
This is the login page. Where the user will choose in what mode they want to login, either as admin or as employee.



■

Then the login page will be displayed as per the above choice and the user must enter the details accordingly.

For admin login: -



Admin
Login

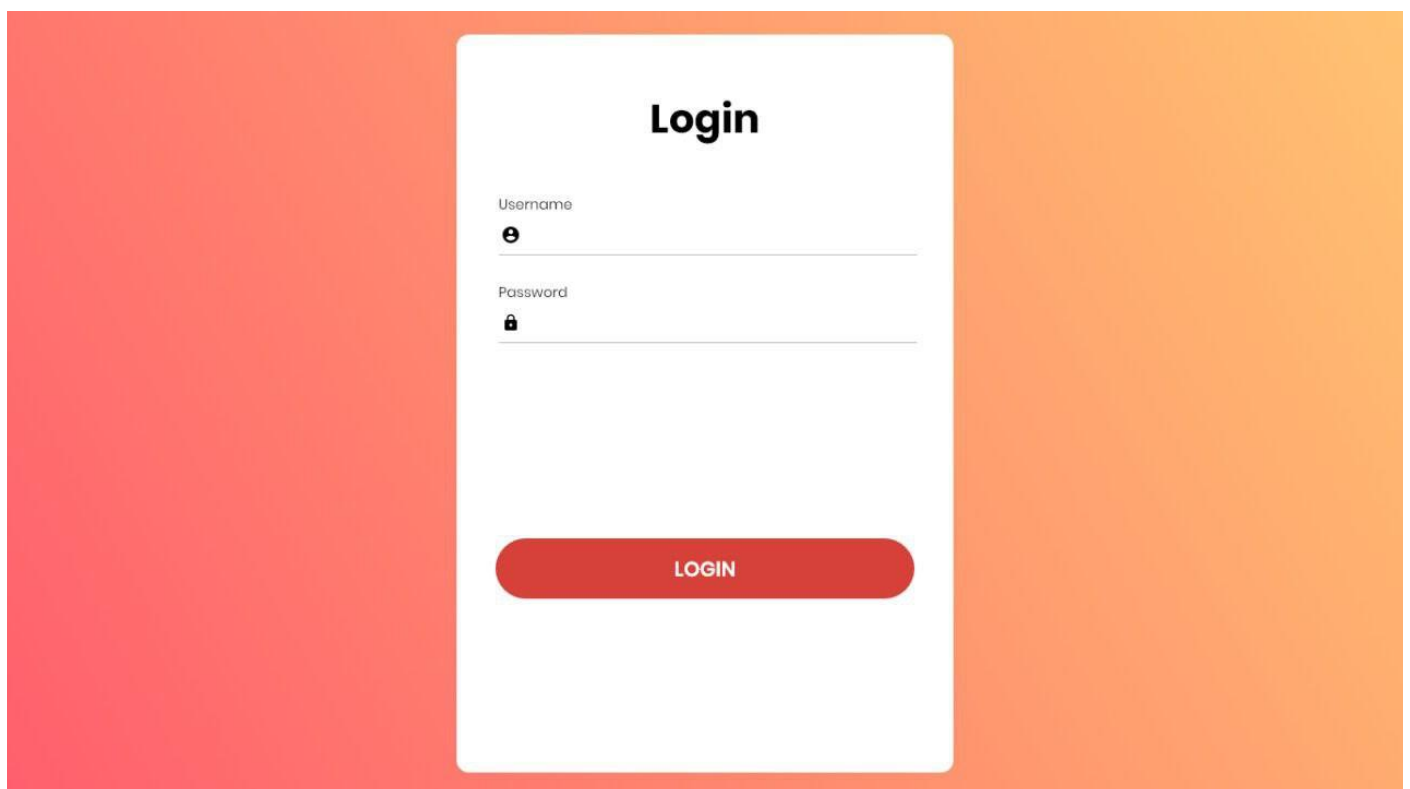
Username
e

Password
🔒

LOGIN

This image shows a login form for an administrator. The form is centered on a white background with rounded corners, set against a gradient background transitioning from red on the left to orange on the right. The title 'Admin Login' is at the top. Below it are two input fields: 'Username' with a user icon and 'Password' with a lock icon. A red 'LOGIN' button is at the bottom.

For employee login: -



Login

Username
e

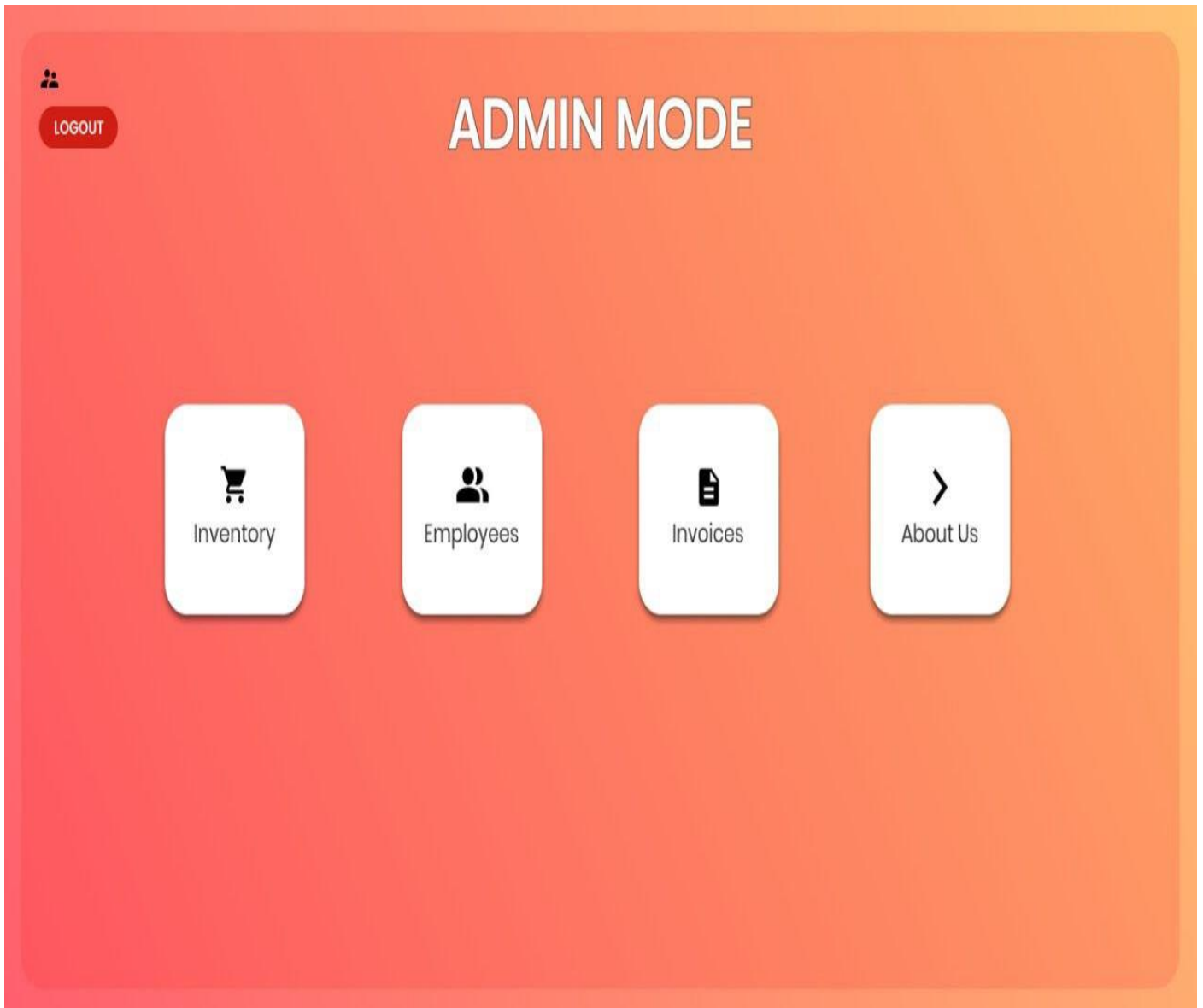
Password
🔒

LOGIN

This image shows a login form for an employee. It has the same layout as the admin login form but with a simpler title 'Login'. The background and styling are identical.

ADMIN MODE –

After entering the admin login details, following window will appear on screen providing various options for the admin to access.



EMPLOYEE SECTION -

In this section the admin can manage their employees and they can also add and update all the information regarding them.

9

LOGOUT

Employee Management

Menu

Employee ID

Search

Employee Options

ADD EMPLOYEE

UPDATE EMPLOYEE

DELETE EMPLOYEE

EXIT

Add Employee

Employee Name

Designation

Contact No.

Address

Aadhar No.

Password

ADD

CLEAR

Update Employee

Employee Name

Designation

Contact No.

Address

Aadhar No.

Password

UPDATE

CLEAR

INVENTORY SECTION –

In the inventory section the admin can manage its inventory by adding a product or updating it.

9

LOGOUT

Inventory Management

Menu

Product ID

Search

Product Options

ADD PRODUCT

UPDATE PRODUCT

DELETE PRODUCT

EXIT

Add Product

Product Name

Category

Sub Category

Quantity

Cost Price

Selling Price(MRP)

Vendor Phone No.

ADD

CLEAR

Update Product

Product Name

Category

Sub Category

Quantity

Cost Price

Selling Price(MRP)

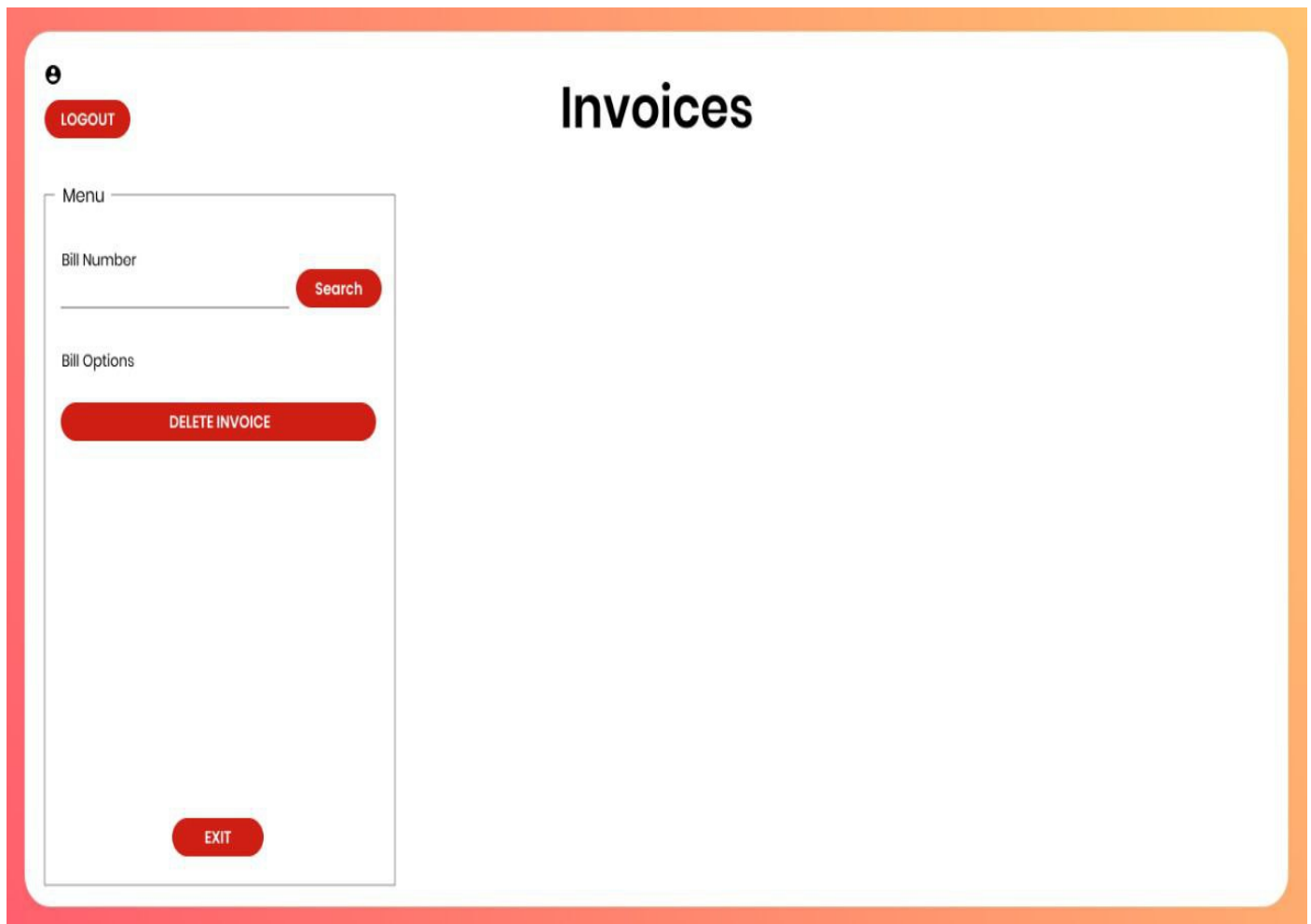
Vendor Phone No.

UPDATE

CLEAR

INVOICES SECTION –

The invoice section allows admin to keep the details of all purchases and bills, it also helps to generate bills and keep them stored in the system for later use.



The screenshot displays a web application interface for the 'Invoices' section. The interface is contained within a light gray rounded rectangle with a thin orange border. In the top-left corner, there is a small black circle with a white 'e' icon, followed by a red pill-shaped button labeled 'LOGOUT'. The title 'Invoices' is centered at the top in a large, bold, black font. On the left side, there is a vertical sidebar with a white background and a thin gray border. The sidebar contains the following elements from top to bottom: a 'Menu' label, a 'Bill Number' label followed by a text input field and a red pill-shaped 'Search' button, a 'Bill Options' label, a red pill-shaped button labeled 'DELETE INVOICE', and a red pill-shaped button labeled 'EXIT' at the bottom.



LOGOUT

Billing System

Customer Details

Bill Number Customer Name Contact Number

Products

Select Category

Sub Category

Product

Quantity

Bill Options

Bill Window

BIG BAZAAR (FUTURE RETAIL LTD.)
BB-THANE-DAHISAR THAKUR MALL
THANE - 401104
TEL NO.: 022-28284707
HELPLINE: 1800-200-255
GSTIN: 35AABCS1429B1ZX w.e.f 01.07.2017

Customer Name:

Phone Number:

Bill Number:

Date:

Product Name	Quantity(Qty)	Price
--------------	---------------	-------

BIG BAZAAR (FUTURE RETAIL LTD.)
BB-THANE-DAHISAR THAKUR MALL
THANE - 401104
TEL NO.: 022-28284707
HELPLINE: 1800-200-255
GSTIN: 35AABCS1429B1ZX w.e.f 01.07.2017

Customer Name:

Phone Number:

Bill Number:

Date:

Product Name	Quantity(Qty)	Price
--------------	---------------	-------

Conclusion:

It is our team's hope that this document will be of huge help with understanding of our little project as we have used a different approach which has proved beneficial for us and easy for us to understand the vast concept of python and mysql.

References :

- Geeks for geeks
- Python server pages by Larne Pekowsley
- Python server pages by Nick Todd
- Python complete reference
- www.opensourceforu.com
- www.w3schools.com