THE HINDU SENIOR SECONDARY SCHOOL TRIPLICANE, CHENNAI – 600005



COMPUTER SCIENCE PROJECT 2021 – 2022

TOPIC: PHARMACY BILLING APP USING PYTHON AND MySQL CONNECTIVITY

THE HINDU SENIOR SECONDARY SCHOOL, CHENNAI – 600005

REGISTER NUMBER:				
BONAFIDE CERTIFICATE				
Master/Miss	for the project work done by of class XII in the project work done by of class XII in the project work done by			
Dated	Signature of the teacher			
School Seal	(P.G.T in Computer Science	e)		
Submitted for All India Senice Examination held in	for Secondary Practical at	t		
	Chennai			
Dated	Signature of External Examiner External Examiner number			

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GOODWILL PHARMACY

-FOR QUALITY MEDICINAL DRUGS

DONE BY:

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Overview:

This is a Medicine Billing Application by using Python-MYSQL to make this project. We have used Python Module Tkinter to Create GUI and MYSQL Connector to Connect to MYSQL Database. Here Python-Tkinter Works as a front-end and MYSQL works as a back-end.

Applications:

- 1. With some Alterations in the code, it can also be used in Hospitals to record Incoming and Outgoing Patients.
- 2. It can be used in Pharmacies to check the availability of drugs and check the retails of the day. It will help you keep track of the cash flow in your business.

3. It Gets the input medicine name from the Customer and generates a bill and saves a copy in MYSQL DATABASE.

Main Aim:

- 1. To Establish a Connection between MYSQL and Python.
- 2. To prepare GUI for Billing Application
- 3. To Code for the following functions:
 - i. DISPLAYING older bills from Database
 - ii. ADDING new bills to Database
 - iii. MODIFY the existing bill from Database
 - iv. DELETING an Item from the Bill
 - v. <u>DELETING</u> an Entire Bill from Database

Front-End: Tkinter

We have used Python Tkinter Module to create GUI & Python has a lot of GUI frameworks, but Tkinter is the only framework that's built into the Python standard library. Tkinter has several strengths. It's cross-platform, so the same code works on Windows, macOS, and Linux. Visual elements are rendered using native operating system elements, so applications built with Tkinter look like they belong on the platform where they're run.

Tkinter is lightweight and relatively painless to use compared to other frameworks. This makes it a compelling choice for building GUI applications in Python, especially for applications where a modern sheen is unnecessary, and the top priority is to build something that's functional and cross-platform quickly.

Back-End: MYSQL

It is open source, Non pirated, reliable, compatible with all major hosting providers, cost-effective, and easy to manage. Many organizations are leveraging the data security and strong transactional support offered by MySQL to secure online transactions and enhance customer interactions.

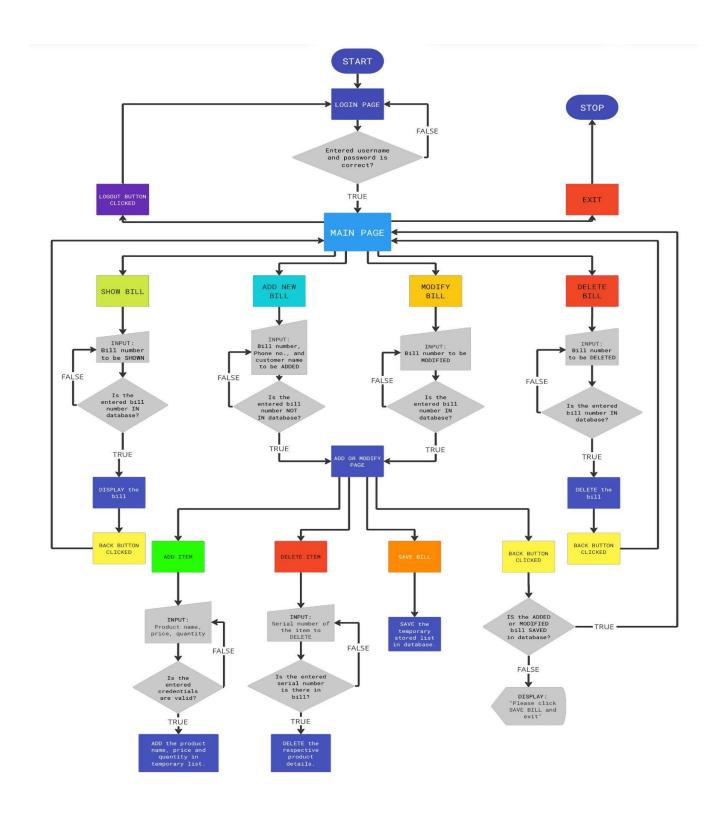
HARDWARE REQUIREMENT:

- CPU compatible with your OS(Arm 64-bit, x86 64-bit, etc. Preferably quad-core processor).
- Minimum of 4GB of RAM. (8GB is recommended).
- Minimum of 16GB of free storage.

SOFTWARE REQUIREMENTS:

- OS such as Linux, MacOS, Windows, etc.
- Python 3.7 version or above.
- Python modules such as 'Tkinter', 'MySQL connector'
 which must be installed using command prompt(on Windows
 OS) or terminal(on Linux and MacOS).
- MySQL database version 5.6, 5.7, 8.0 or greater.

Flow chart:



SOURCE CODE:

1. GUI and Python:

```
exit window.title("EXIT")
```

```
def clear_a_line_in_text_box(line):
```

```
home label = Label(left side frame, text = "HOME", width = 30, height = 5, background =
```

```
def show bill validation():
```

```
def add bill page():
```

```
create new bill button = Button(left side frame, text = "CREATE NEW BILL", background =
```

```
def add modify operation page(add or modify):
```

```
text += "# Only 9999 products can be stored in a bill.\n"
```

```
def add product function():
```

```
def delete_an_item(s_number):
```

```
def back_button_validation():
BILL' TO SAVE")
def save_bill_database():
```

```
def modify_bill_validation():
def delete_bill_page():
```

```
delete",background=black, foreground= white)
```

```
else:
    messagebox.showerror("BILL DIDN'T EXIST", "Bill no doesn't exist in the database")
    del_input_bill_no.delete(0, END)

else:
    messagebox.showerror("BILL DIDN'T EXIST", "Bill no doesn't exist in the database")
    del_input_bill_no.delete(0, END)

login_gui()
root.mainloop()
```

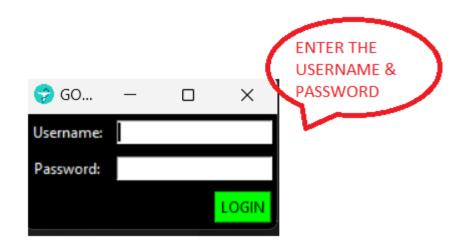
2. DATABASE:

```
import mysql.connector
```

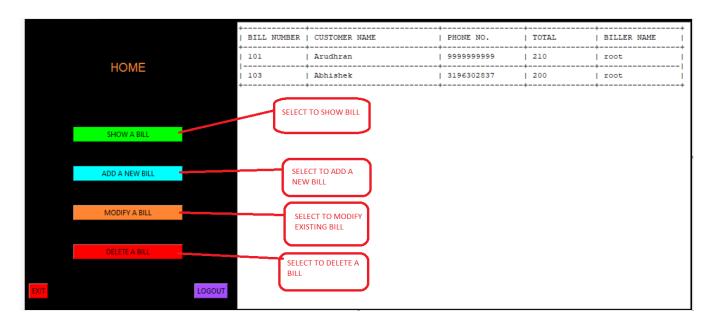
```
def get_main_bill():
```

OUTPUT:

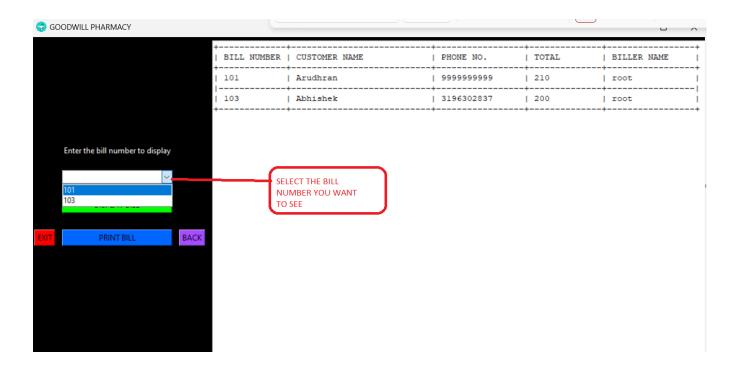
i) Enter the Username and Password



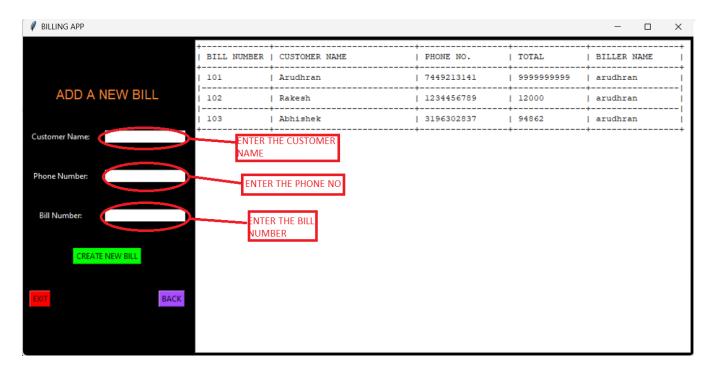
ii) The window here , is used to access the bill, i.e To DELETE, ADD, SHOW & MODIFY



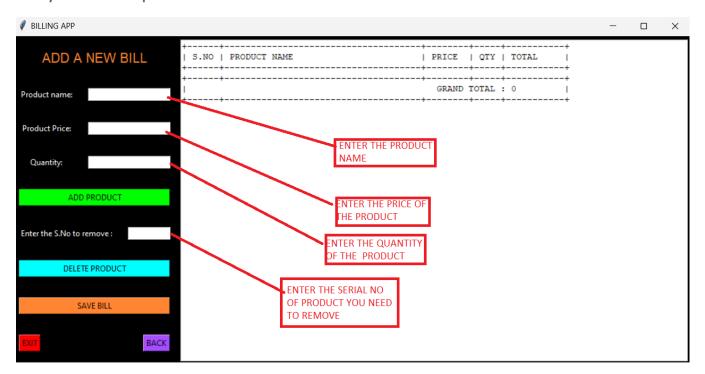
iii) To Show bills:



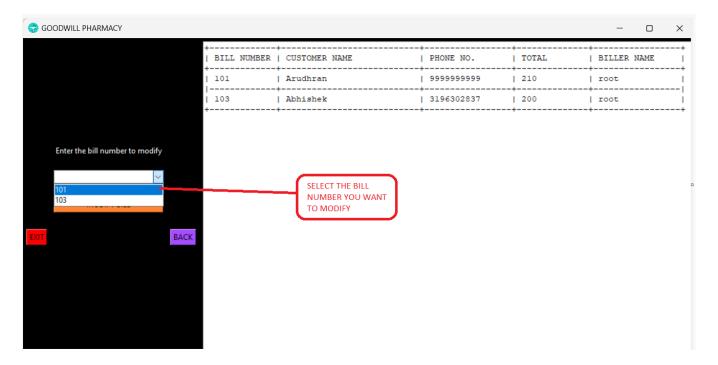
iv) a) To Add a new bill:



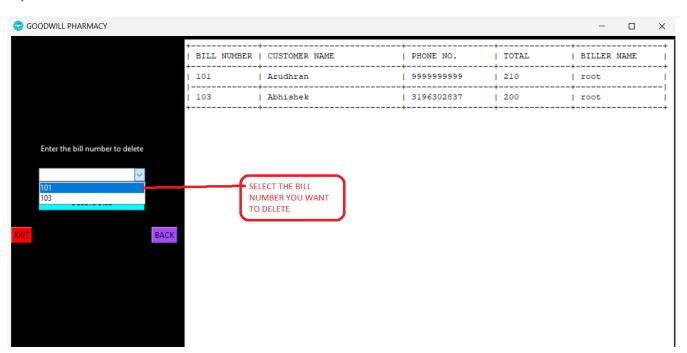
b) Add the product details:



v) To Modify the Bill:



vi) To delete the bill:



DATABASE OUTPUT:

```
mysql> select * from bill_104;
 item_name | price | quantity | total |
 Shampoo
                  2
                            20
                                    40
                 45
                             2
 Soap
                                    90
2 rows in set (0.00 sec)
mysql> select * from bill_103;
 item_name | price | quantity | total
                                   100
  Potato
                 20
  Tomato
                 20
                             5
                                   100
2 rows in set (0.00 sec)
mysql> select * from bill_102;
 item_name | price | quantity | total
 Soup
                 20
                                    40
 Rice
                             2
                 60
                                   120
 rows in set (0.00 sec)
mysql> select * from bill_101;
 item_name | price | quantity | total
 Maggi
                 85
                             2
                                   170
 Brush
                             2
                 20
                                    40
2 rows in set (0.00 sec)
```

BIBLIOGRAPHY:

- John Elder (codemy.com)
- Geeks For Geeks (geeksforgeeks.org)
- Stack Overflow (stackoverflow.com)

CONCLUSION:

We would like to take this opportunity to thank our teachers for their guidance and letting us accomplish this feet. We also learned the values that other members taught us in this process. Thank you!!

