# Cashier Application (POS System) for CRISTY’S LOVE BURGER HUB

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# Cashier Application (POS System) for CRISTY’S LOVE BURGER HUB

# Introduction

Creating Database and Testing the success of this POS System is the aim of my part. Database uses Sqlite3 and is based on two tier-database. Testing is performed using black box testing.

# Employee Database

It keeps record for every information that the supervisor inputs in the employee registration. ‘Manager Database’ and ‘Staff database’ are its types. Its attributes are f\_name, l\_name age, gender, pin, re-pin, father\_name, phone, address, city, zip code, employee\_id (manager\_id/staff\_id) and status as shown in figure 1 and 2.

### Figure 1

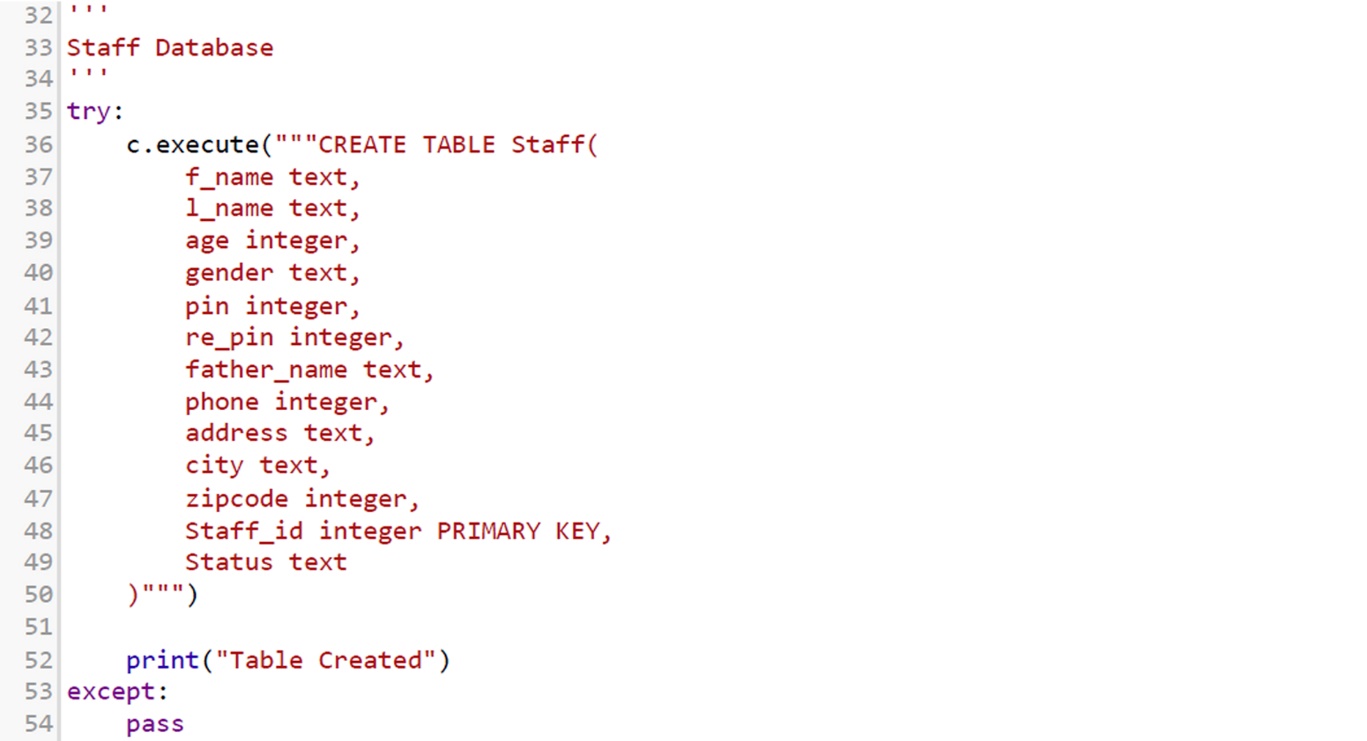
Code of Manager Database

Text

Description automatically generated

### Figure 2

Code of Staff Database



# Product Database

Product database contains the record of the product which helps to identify the product. The attributes for this are product\_name, product\_price, product\_id as shown in figure 3.

### Figure 3

Code of Product Database

**Text

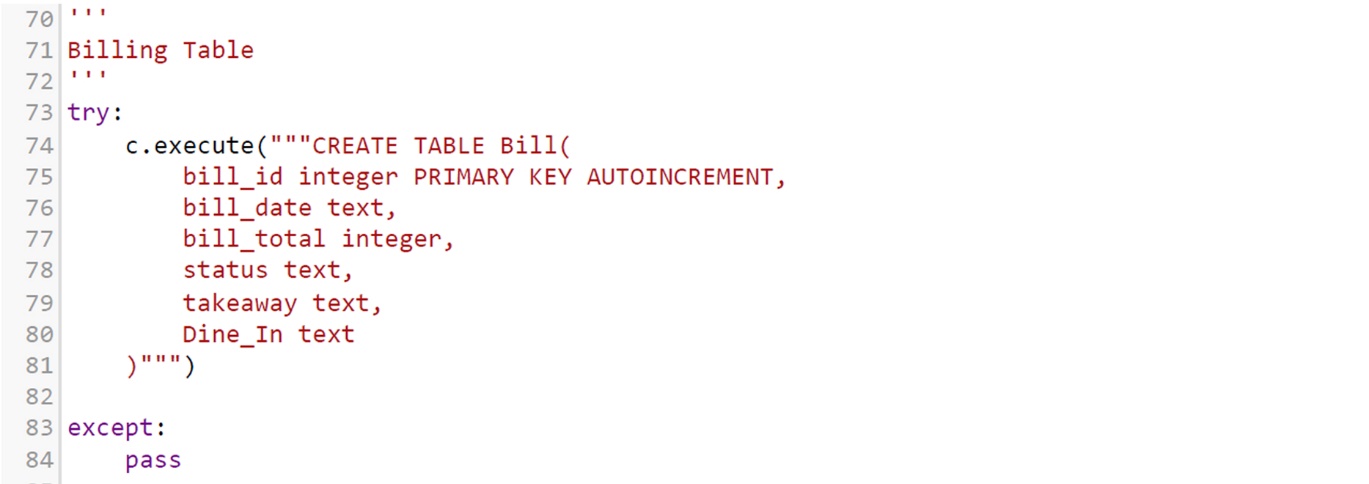
Description automatically generated with medium confidence**

# **Billing Table**

Billing Table keeps the records of every bill generated after the order is taken. The attributes in this table are bill\_id, bill\_date and status as shown in figure 4.

### Figure 4

Code of Billing Table

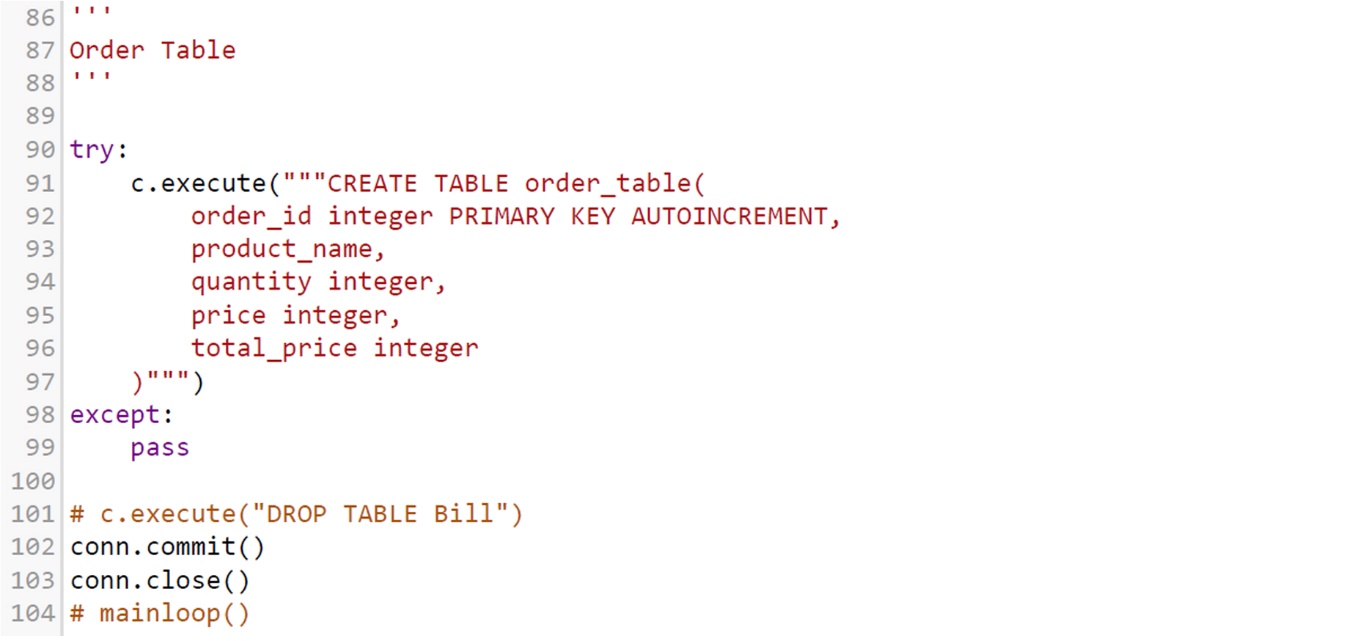


# Order Table

Order Table keeps the record of every single order made by the staff for the customers. The attributes contained in this table are order\_id, product\_name, quantity, price and total\_price in which order\_id is a primary key as shown in figure 5.

### Figure 5

Order Table



# Register Function

This function adds new employees by the superiors in the database as shown in figure 6.

### Figure 6

Register function

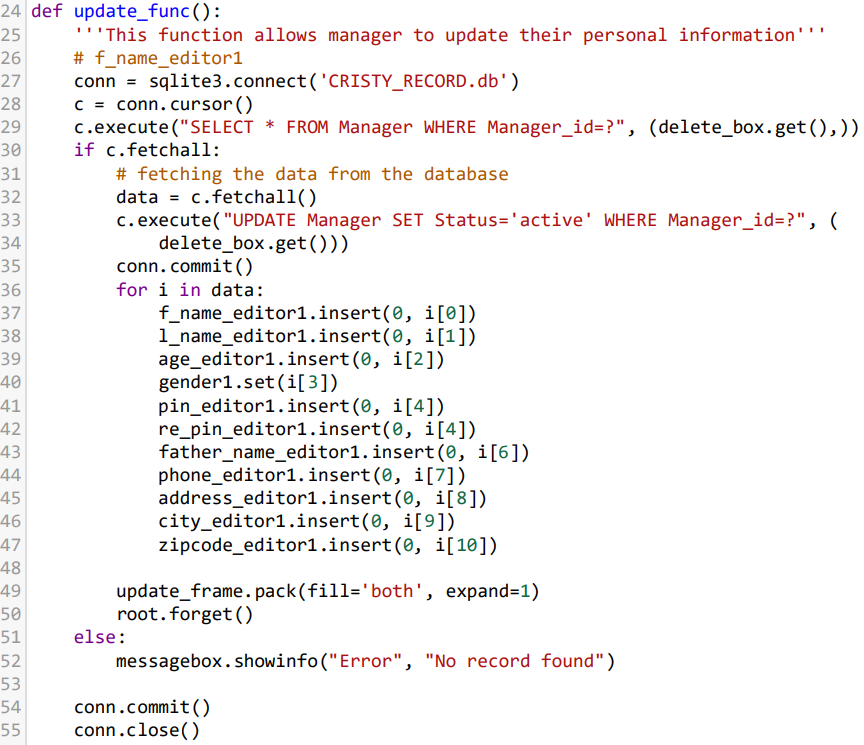
**

# Update Function

This function is defined for employees to change their individual information as per their needs as shown in figure 7 for manager data modification.

### Figure 7

Update function

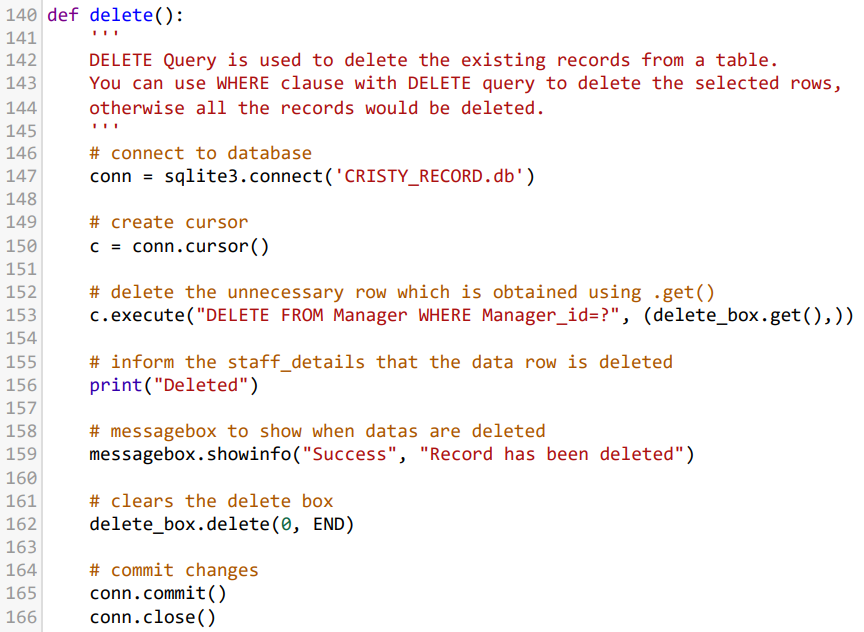


# Delete Function

This function is defined to delete the needless records from any table according to the user’s will especially in case of staff resignation. Superiors can delete anything from the table if it’s not needed anymore as shown in figure 8.

### Figure 8

Delete function

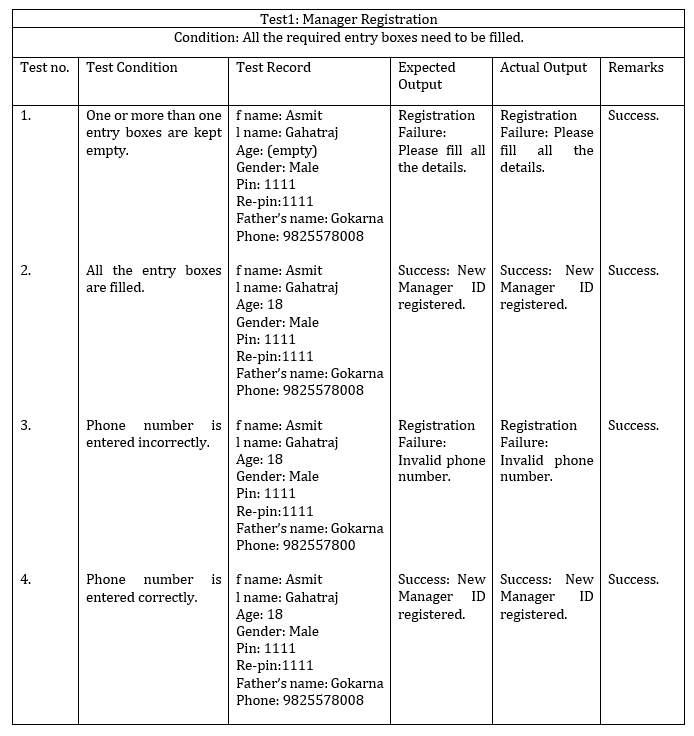


# Testing

System testing was conducted with ‘Black Box Testing’ with results as shown in figures 9-17.

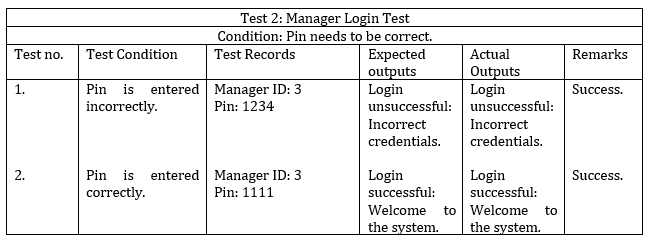
### Figure 9

Manager registration test



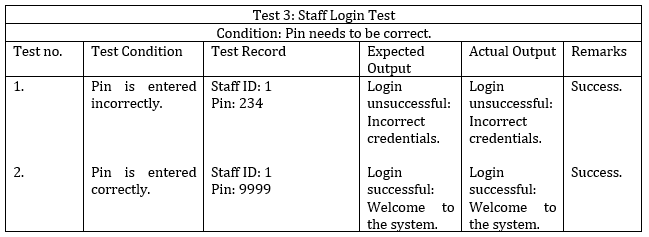
### Figure 10

Manager login test

**

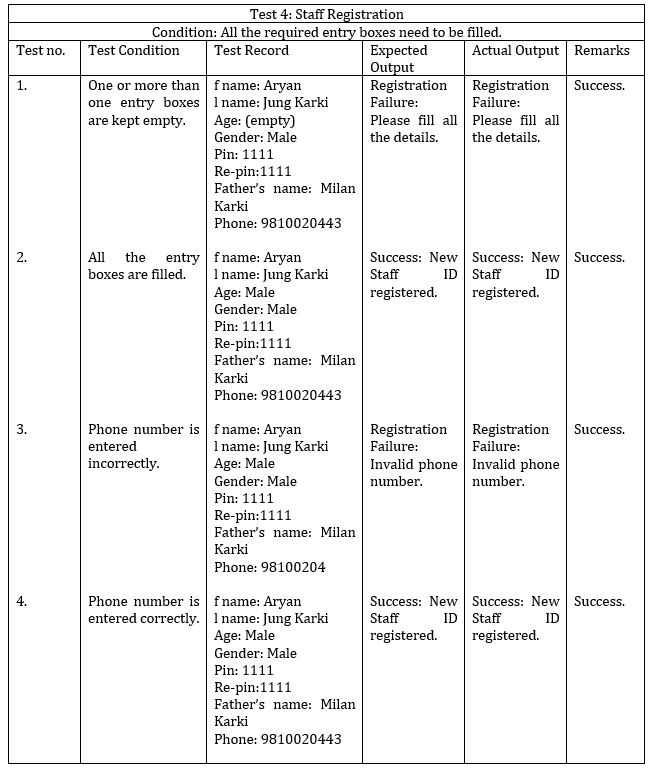
### Figure 11

Staff Login Test

**

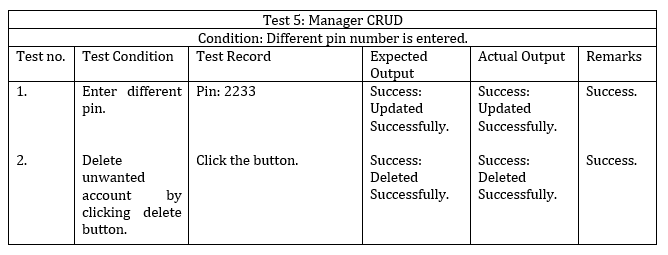
### Figure 12

Staff registration test

**

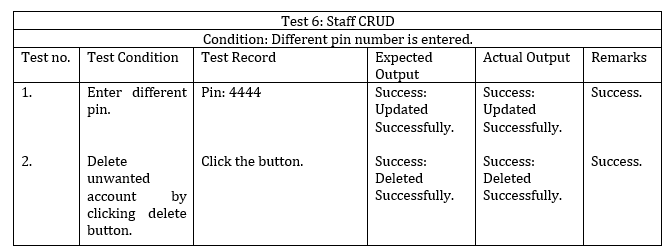
### Figure 13

Manager CRUD Test

**

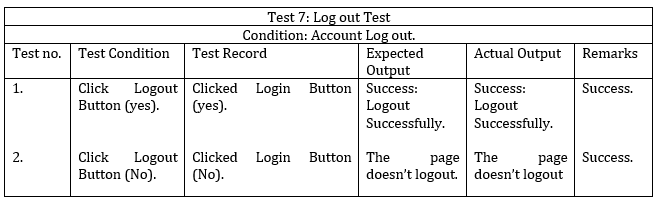
### Figure 14

Staff CRUD Test

**

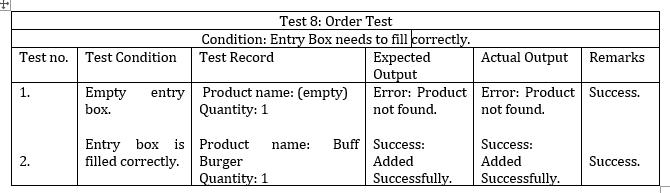
### Figure 15

Logout Test

**

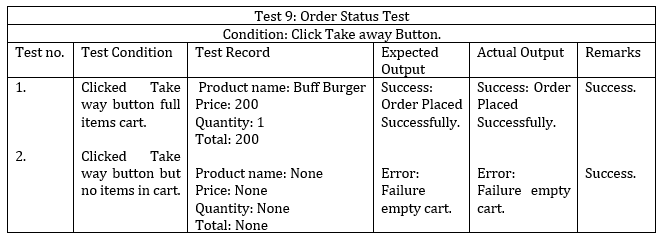
### Figure 16

Order Test

**

### Figure 17

Order Status Test

**

# Version Control

**Github**: <https://github.com/softwarica-github/st4008cem-cw-32a-cristy-s-love-burger-hub-3.git> as in figure 18.

### Figure 18

Github commits

*A screenshot of a computer screen

Description automatically generated with medium confidence*

# Conclusion

The goal of my part in this project is to make database using sqlite3 module that records information of registered employees and testing ‘*validity/invalidity’* of the program by using ‘black box testing’ method as taught in our course. The database was based on two-tier architecture. Defining functions related to *Create-Update-Delete* of CRUD was also my part. It felt challenging to create a database and define functions to connect to the GUI as my first project. I actively took part in our team meetings and referenced to study materials to get my job well done. This helped me in my information gathering skills and its proper utilization.

In my future projects, I would experiment with many other types of database structures and choose better alternatives to provide better efficiency and security. Testing taught me that even a working software has many hidden bugs, debunking developer’s myth that a working software has no errors, as taught in classroom .