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

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

Objective of this frontend is to build a simple, user-friendly, and interactive ‘*Login-Registration-Modification’* GUI for employees in POS system using python’s Tkinter library. GUI adheres to prototypes from design phase of modern-waterfall SDLC.

# Login

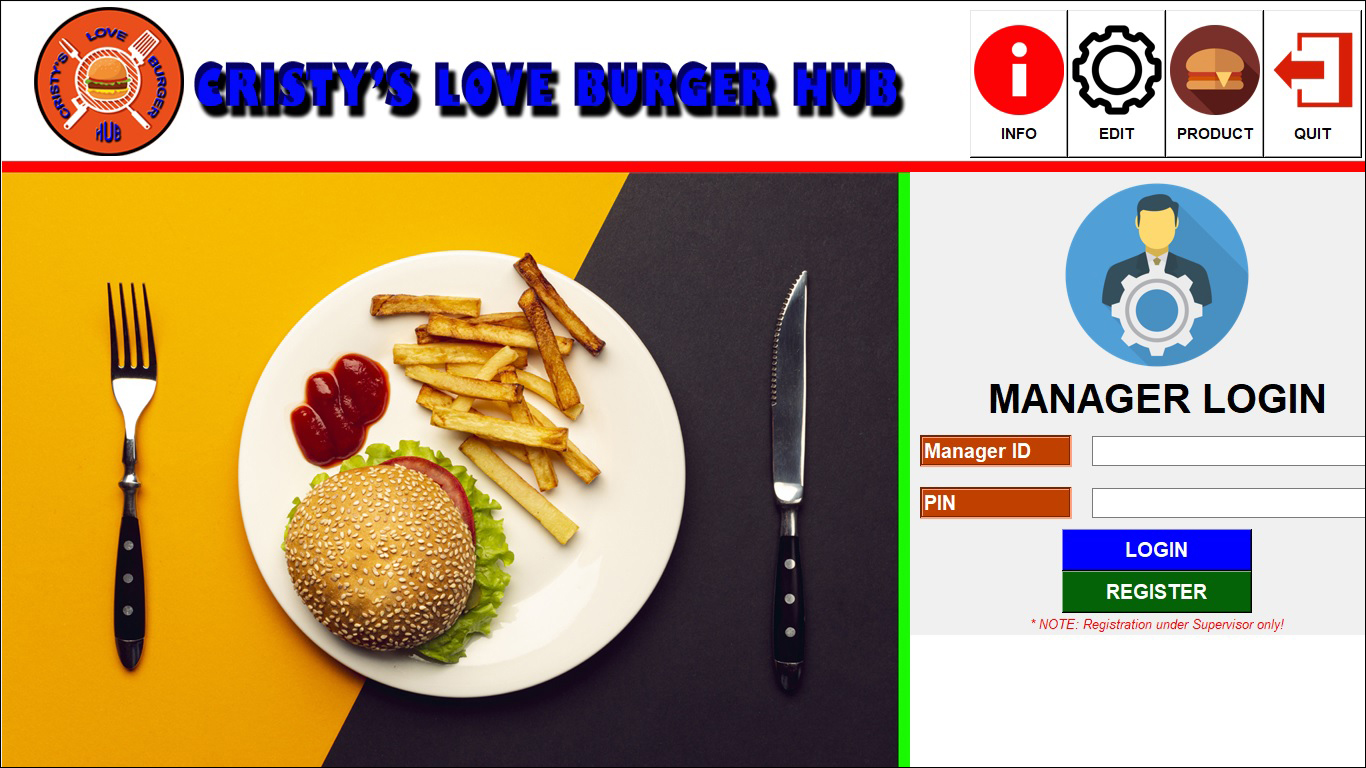
This page facilitates login of employees to their respective accounts. The application starts with “MANAGER LOGIN” (as in Figure 1), where only managers can login by inputting their respective login credentials. A successful sign-in directs to “STAFF LOGIN” (as in Figure 2), whereas invalid data entry prompts error pop-up message. Staffs can also access their accounts in “STAFF LOGIN” with correct login-information. New employees can be registered via “REGISTER” under superior’s authorization in their respective page.

“INFO” retrieves data of registered staffs while “EDIT” permits modification of their respective details in database after authentication. Superiors can access database if staffs forget their pin and reset it. They also have power to delete record due to resignation of a staff. In “MANAGER LOGIN” page “PRODUCT” informs about available restaurant menus while “QUIT” exits the whole program. Likewise, clicking “LOGOUT” sign-outs active manager, thereby returning to the default starting login page.

Figure 3 presents codes of “MANAGER LOGIN”.

### Figure 1

*Manager login*



### Figure 2

*Staff login*

A picture containing website

Description automatically generated

### Figure 3

Codes of *manager login*

# Registration

This page provides interface to add new employees to database. If two pins match, “REGISTER” prompts “Success” message”. This page also has “BACK” button to return backward if no registration is needed. Figures 4, 5 and 6 represent registration of manager and staff, and their coding respectively.

### Figure 4

*Manager Registration*

Graphical user interface, website

Description automatically generated

### Figure 5

*Staff Registration*

Graphical user interface, website

Description automatically generated

### Figure 6

Code of *Manager Registration*

# Edit Data

Employees can update their individual information and save it in system by clicking “UPDATE”. Furthermore, superior can also edit or delete staff’s data using “DELETE” if necessary. This page provides “BACK” button to return to the previous page. Figures 7, 8 and 9 represent edit page of manager and staff, and their source-code respectively.

### Figure 7

*Edit manager data*

Graphical user interface, website

Description automatically generated

### Figure 8

*Edit staff data*

Graphical user interface, website

Description automatically generated

### Figure 9

Code of ‘*Edit Manager Data’*

# Version Control

# Github: xxxxxxxxx

# Conclusion

Concepts and logics taught in classroom are fully utilized by applying Tkinter tools in Python to build a working GUI for data-entry according to SRS document and prototype. It focuses mainly on UI of two-stage secure login to solve problems in traditional data recording sysytem. I chose GUI because of my expertise in graphics.

Due to my inexperience as newcomer in coding, many individual UI(s) for secure login expended lots of my time plus effort. Though tiring, I recognized my shortcomings. I consulted internet, instructor and concerned books for help. In future projects, research focusing on integrating all functionalities in single interface will be kept in mind. I will amass experience by coding more GUI in my daily life. This endeavour to learn by continuous practice without being discouraged is my strength. This project has taught me that visual interface is easier than texts. I will use more ‘reading visual aids’ like charts in real life.

Creation of this software has enriched my experience, knowledge, teamwork, and problem-solving skills. It has validated practicality of theoretical knowledge in IT field. It enlightened me that problem solving means finding alternative solutions when one method doesn’t work by thinking smarter.