Project Name: Clean-and-Go

Requirements: (Paragraph format)

* The program should have a login interface wherein only registered users may access it.
* The program should have a logout function so that users won’t have to close the program to login a different user.
* The user should be able to view all ongoing and completed laundry requests.
* The user should be able to add a laundry request.
* The user should be able to add a new customer profile.
* The user should be able to view all customer profiles
* The user should be able to update the status of the laundry request.
* The user can indicate whether the customer would pay in full or in installment.
* The user should be able to update the balance left of the owner for the requested laundry services.
* The types of services to be done on the laundry should be specified.
* The program should calculate the total cost of the laundry request depending on the weight and the services to be done to the laundry.

Introduction:

Clean and Go is an application that allows its users to monitor whether the pending laundry requests are done. This application provides a way of recording the request of customers so that monitoring it won’t be tedious for the owner of the shop and the customers. The application provides

Objectives:

* To use SQLite as a database for a program
* To create a program using python programming language
* To apply the 3-tier architecture in creating a program

Scopes and Delimitation

The application is created using python programming language and SQLite as its database. The application would be able to record laundry requests which contains the owner’s name, weight of laundry, the cost of services, services requested, date when the request is made, the balance of the customer for a certain request, and if the package is to be picked up or delivered. There is also a view customer profile wherein recorded information about customers would be displayed on the screen. The application has a login interface wherein so that not anybody could just open it and view the records.

Methodology

Flowchart

Figure 1 shows the overall flow of the program. The user would need to login, inputting his/her registered account username and password. After successfully logging in, the user would be seeing the main interface. There, the user can view the ongoing laundry requests, completed laundry requests, and customer information. The user also has the option to logout from the menu bar under Account menu or exit the program from the File menu.

Coding

The program was coded using python programming language. Sqlite database functions were used to get, write, and delete values from the database. The user interface is created using QtDesigner and was later translated into python codes.

Tables

Tables are used to display the details needed by the user. The details provided from the database is viewed from a table widget such as customer information, and laundry request information. The laundry request information includes the name of owner, weight of laundry, cost, services provided on the laundry, date received, order number, whether the laundry package would be picked up or delivered to the owner, and balance remaining.

Conclusion

The program created is able to store all the laundry requests of the shop. Using the program the user can also view all the ongoing and accomplished laundry requests, add a customer, or view all customer information. The three-tier architecture was successfully applied in the program wherein it is divided into three parts, the graphical user interface, the business logic, and the data access layer wherein the graphical user interface may only communicate with the database through the business logic layer.

Flowchart

Start

Input username  
Input password

Display error message

Display error message

Display Main Interface

Entered password = saved password?

Does username exists?

User Manual

1. The user needs to login to his/her respective account. If the user has no registered account yet, he/she needs to register for one.
2. After logging in the user would be able to view all the ongoing requests, view all finished request, add a new customer profile, and view all customer profiles. In the menu bar of the main interface, there are the File and Account menu. In the File menu, the user may exit the application, and under the Account menu, the user may logout and then login into a different account.
3. If the user selects the Order button, he/she could view all the ongoing requests, add a request on the list, edit its status, or update the remaining balance of the customer for a certain order.

To add a request on the list the user should click the “Add” button.  
 Clicking the “Back” button would return the user to the main interface

1. The user can now view the list of requests that is currently in the shop through a table.