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# **Overview**

Cruise ships are large passenger ships used mainly for vacationing. Unlike ocean liners, which are used for transport, cruise ships typically embark on round-trip voyages to various ports of call, where passengers may go on tours known as “shore excursions”. On “cruises to nowhere” or “nowhere voyage”, some cruise ships make two- to three-night round trips without visiting any ports of call.

Modern cruise ships tend to have less hull strength, speed, and agility compared to ocean liners. However, they have added amenities to cater to water tourists, with recent vessels being described as “balcony-laden floating condominiums”.

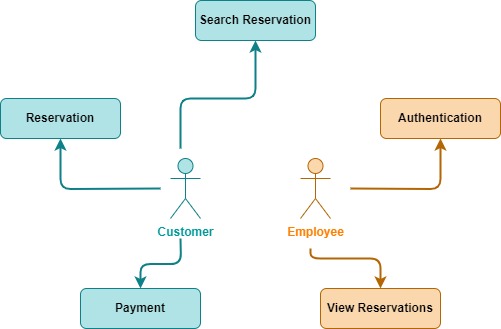
Cruise Reservation System-Lets Travel Agents and End Users to Search and Book Online Cruise Deals.

# **Functional Requirements**

Cruise Booking a web application that searches the data from the database added by the suppliers (Cruise Operators) or from the inventory of the API will, therefore, find the best possible option available in a particular city as per the user’s search When selecting a specific Cruise, it will be routed to the payment gateway for payment or deposit account for the final booking Cruise Booking Software allows travel agents and consumers to scan and book cruises online with the best deals it can be linked to travel agents and tour operators in the form of cruise XML comprehensive inventory of cruise suppliers (such as MSC, Princess, and Carnival). The online cruise reservation system allows browsers to check the availability of online cruises, examine deck plans, cabin inventories and finally user-friendly online booking

Cruise Reservation System helps cruise companies and travel agencies manage multiple bookings, inventory levels, fare codes, taxes, and channel partners through one dashboard custom made for the cruise industry This exclusive cruise reservation system possess comprehensive cruise management and online reporting with relevant information regarding summary, sales, profit, vendors, insurance, and margins, etc With the help of our Cruise Reservation System, one can easily manage their services properly by investing a little effort The major aim of such software engines is to reduce the overhead of ticket booking, status checking, and other travel- related information. In this booking engine, we have an ample amount of cruise line, cruise descriptions, and lines which is linked with rich content and media like photos, ship images, and attire plan to help in the shopping. Cruise Reservation system also provide different screen access to your portal like mobile, desktop and tablet, etc

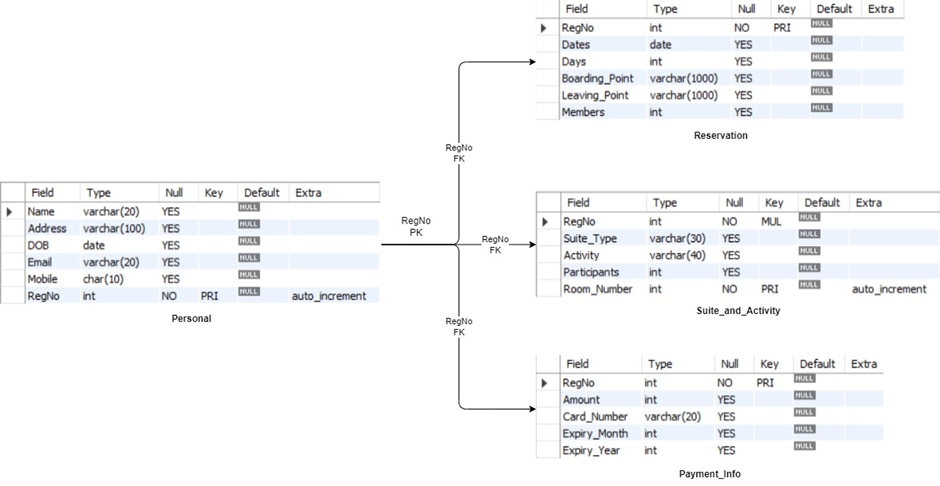
# **Functional Diagram**



# **System Design**

System design is the process that defines modules, interfaces, and data for the system that satisfies the specific requirements.

## **Database Model**

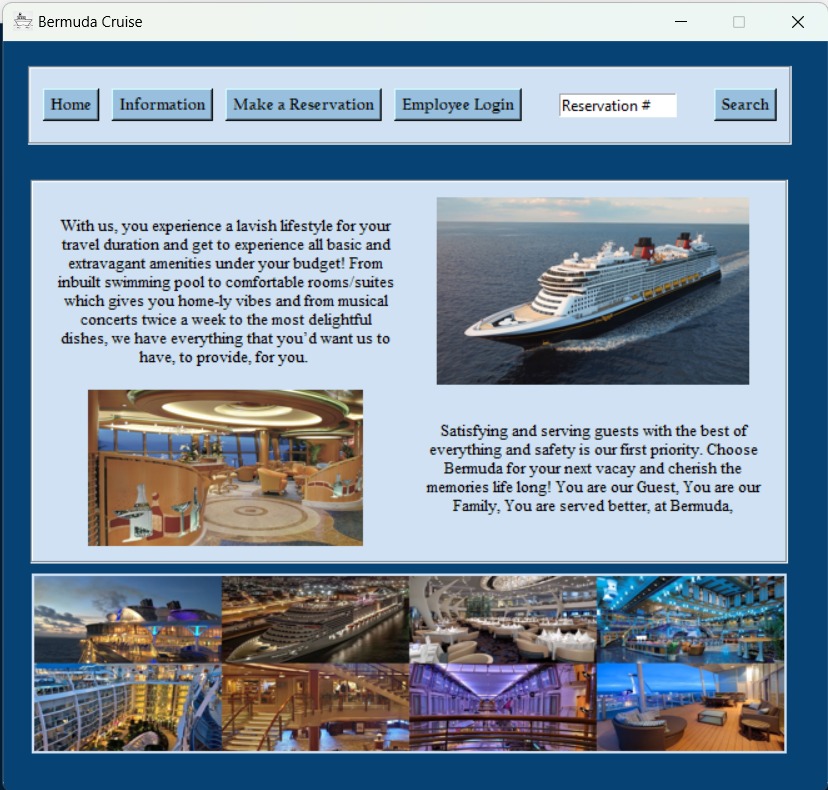


## **User Interface**

User interface is the bridge between end-user and system. Following section list various visuals representing the application, containing images, text, input controls – Label, Textbox, Dropdown, Image, Button, Treeview etc.

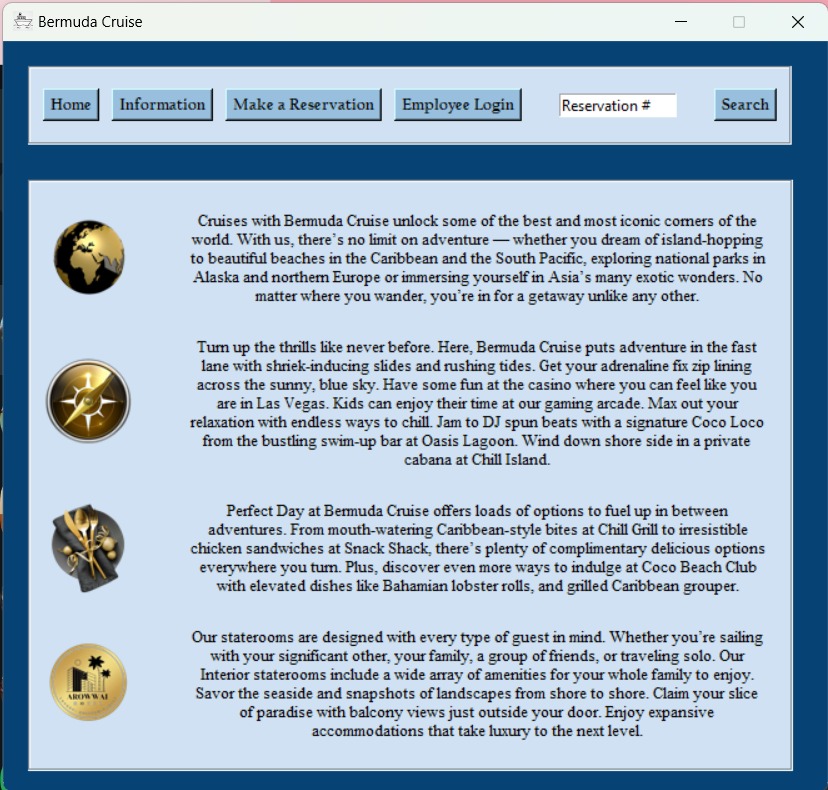
### **Home**

This is the default screen presented at the launch of the application. It provides an overview of the Cruise. At the top, it has actionable buttons to perform various functions. It is a static screen.



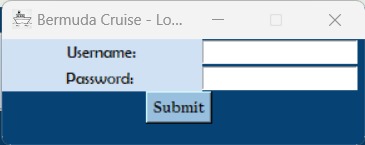
### **Information**

Information screen is opened up when user clicks Information button on Home screen. It displays various options and activities available on the cruise journey. It is a static screen.



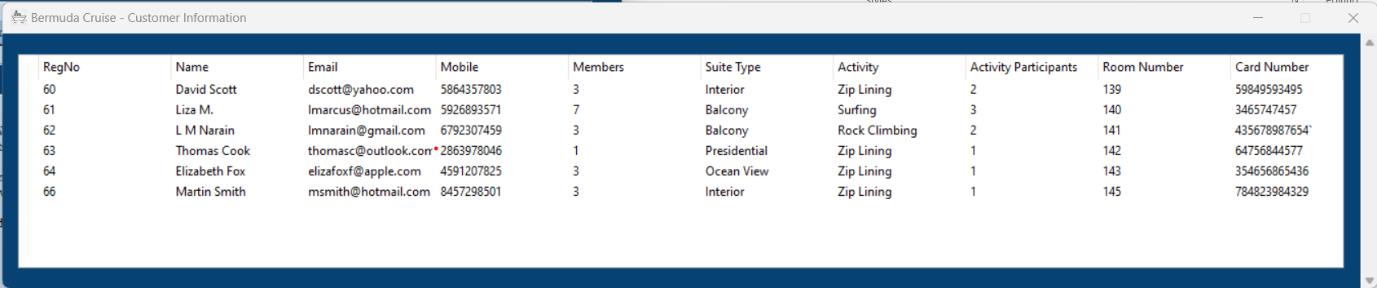
### **Login**

This screen accepts user id and password of the employee for authentication. On successful login, an employee can view all the reservations made by the customers.



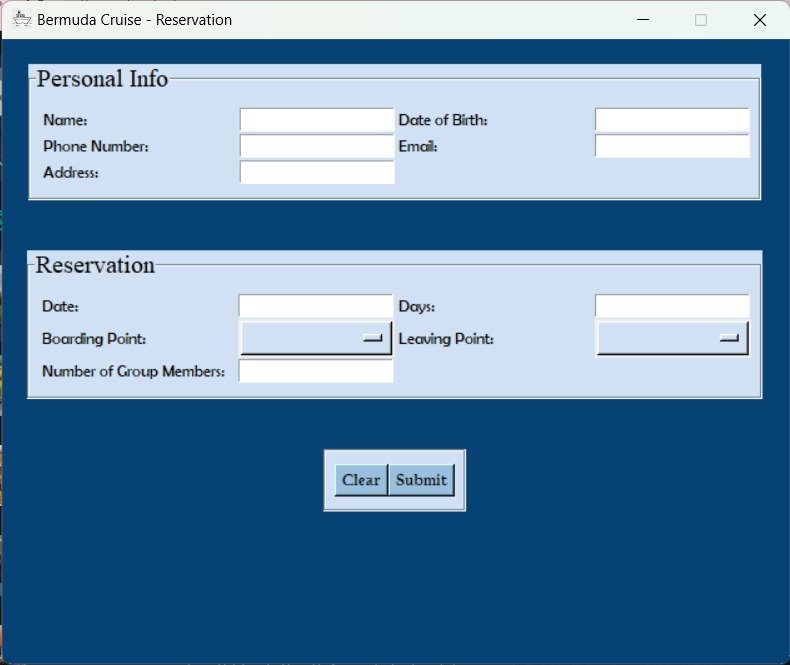
### **Customer Information**

Customer information screen lists all the reservations made by the customers. It shows RegNo, Customer Name and their email id and mobile no., and reservation details.

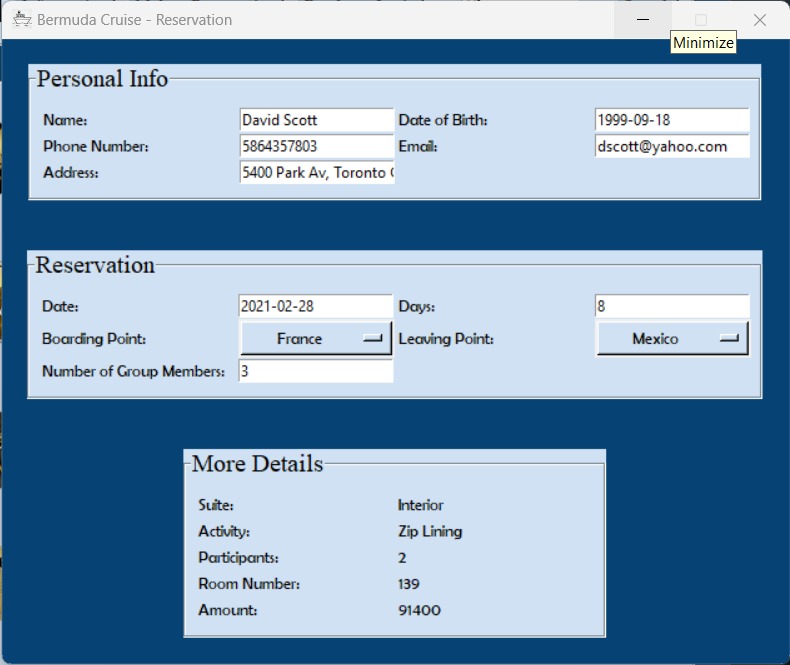


### **Customer Reservation Booking/Search**

On the click of **Make a Reservation** button, Reservation screen is launched. It accepts customer’s personal information and reservation details to start with.

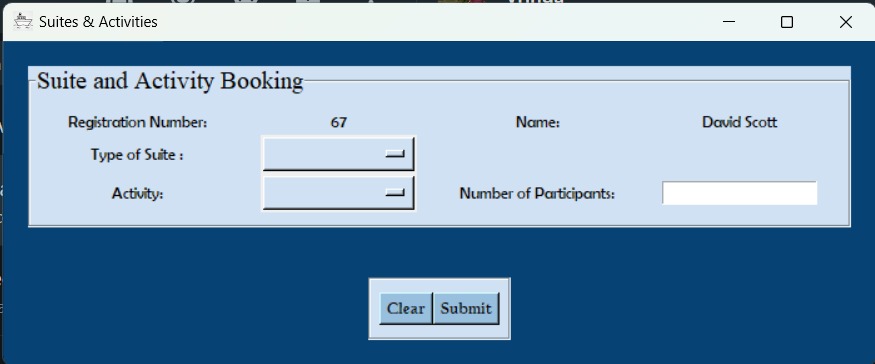


From the home screen, a customer or an employee can also search a reservation by providing reservation number. When **Search** button is clicked, the same Reservation screen is opened and the reservation details are pre-filled.



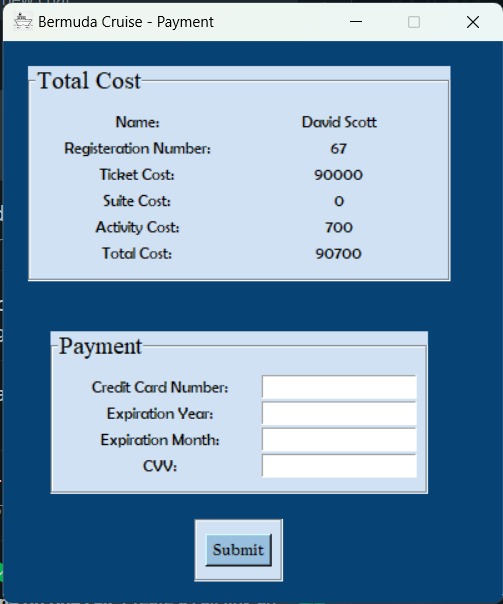
### **Suites and Activity**

Suites & Activities screen follows after customer submits personal information and reservation details – boarding point, destination etc. Here on this screen, customer selects the type of suite and activity.



### **Payment**

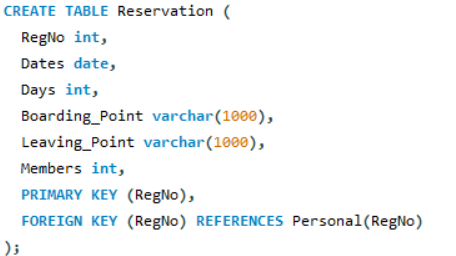
At the end, customer is presented the payment screen. This calculates the total cost of the cruise. Customer provides credit card number, expiry year & month and CVV number. On completion of payment, a confirmation screen is shown with the reservation number.

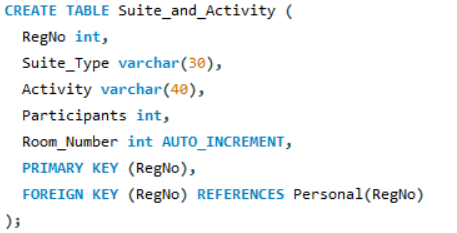
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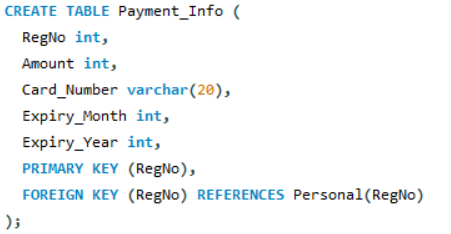
## **Database Queries**

### **Schema**









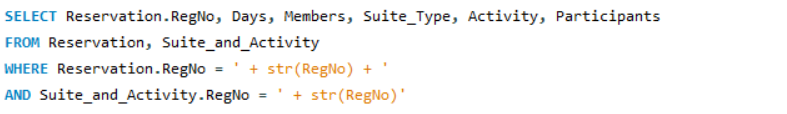
### **Add Personal Details**



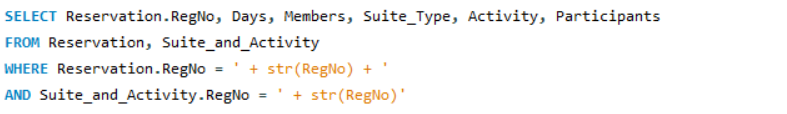
### **Add Reservation Details**



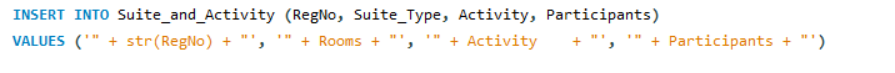
### **Search Reservation by RegNo**



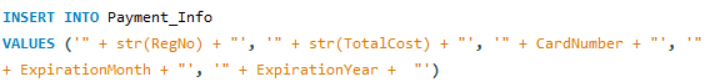
### **Show Reservation Info on Payment Screen**



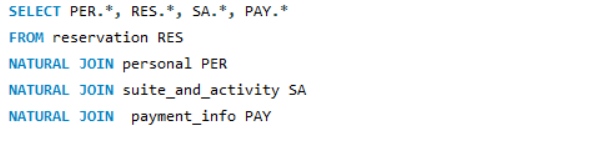
### **Allot Room Number**



### **Insert Payment Details**

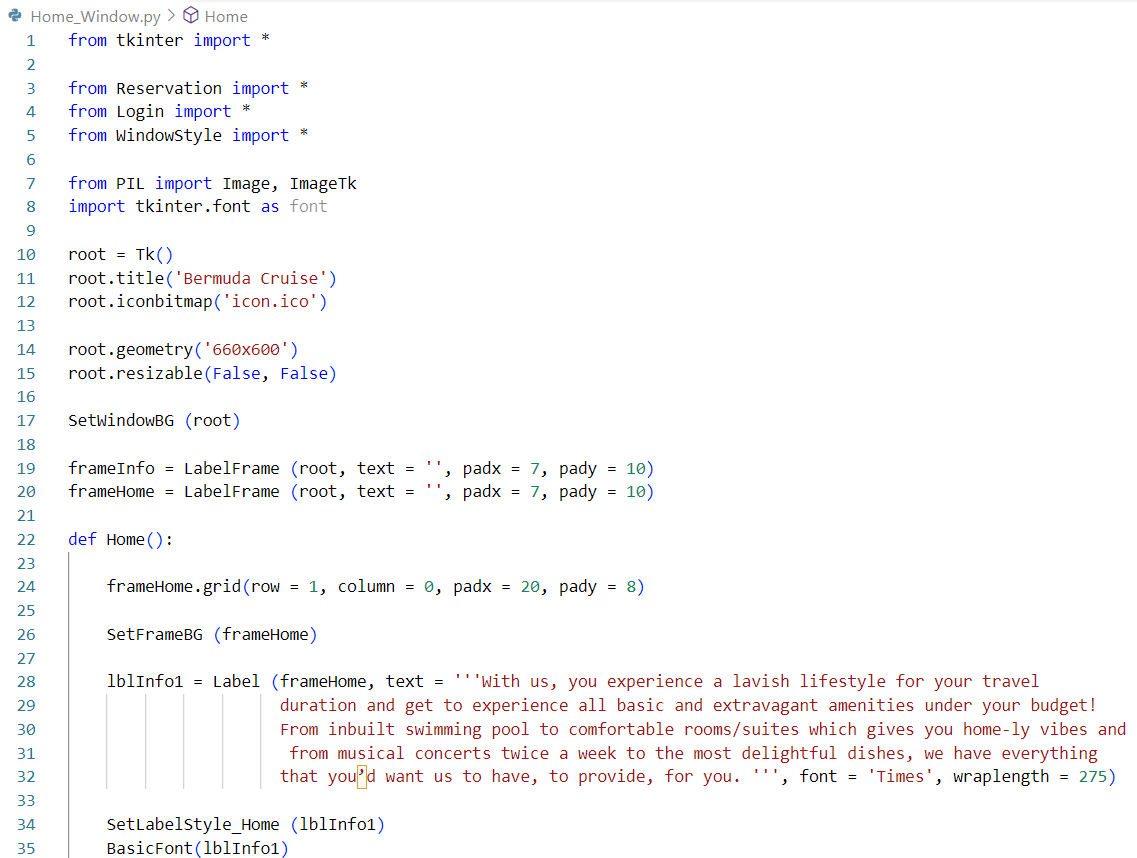


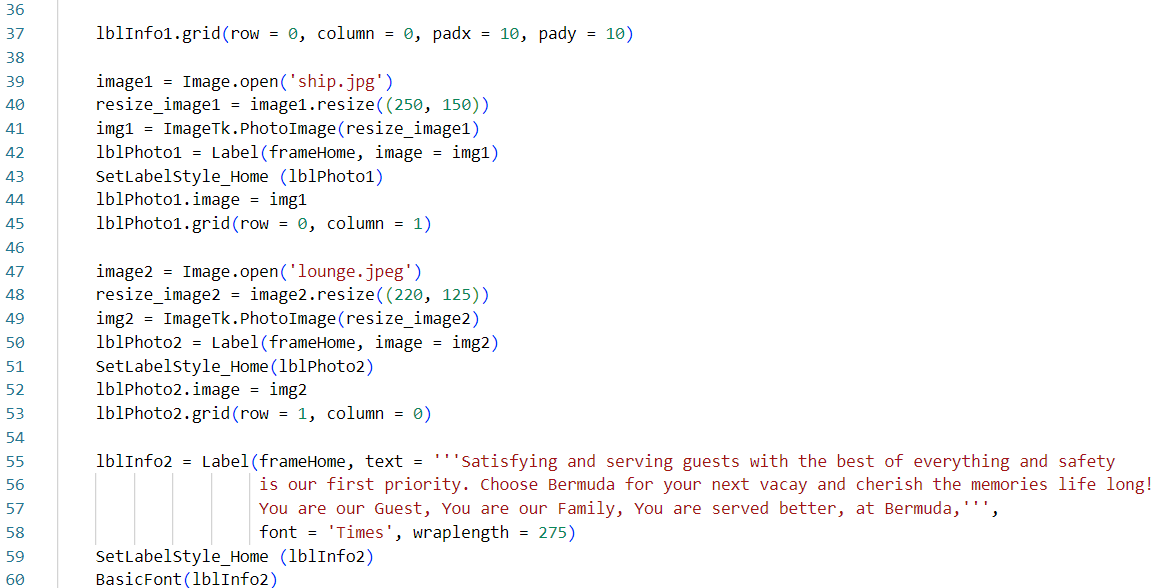
### **List all Reservations**

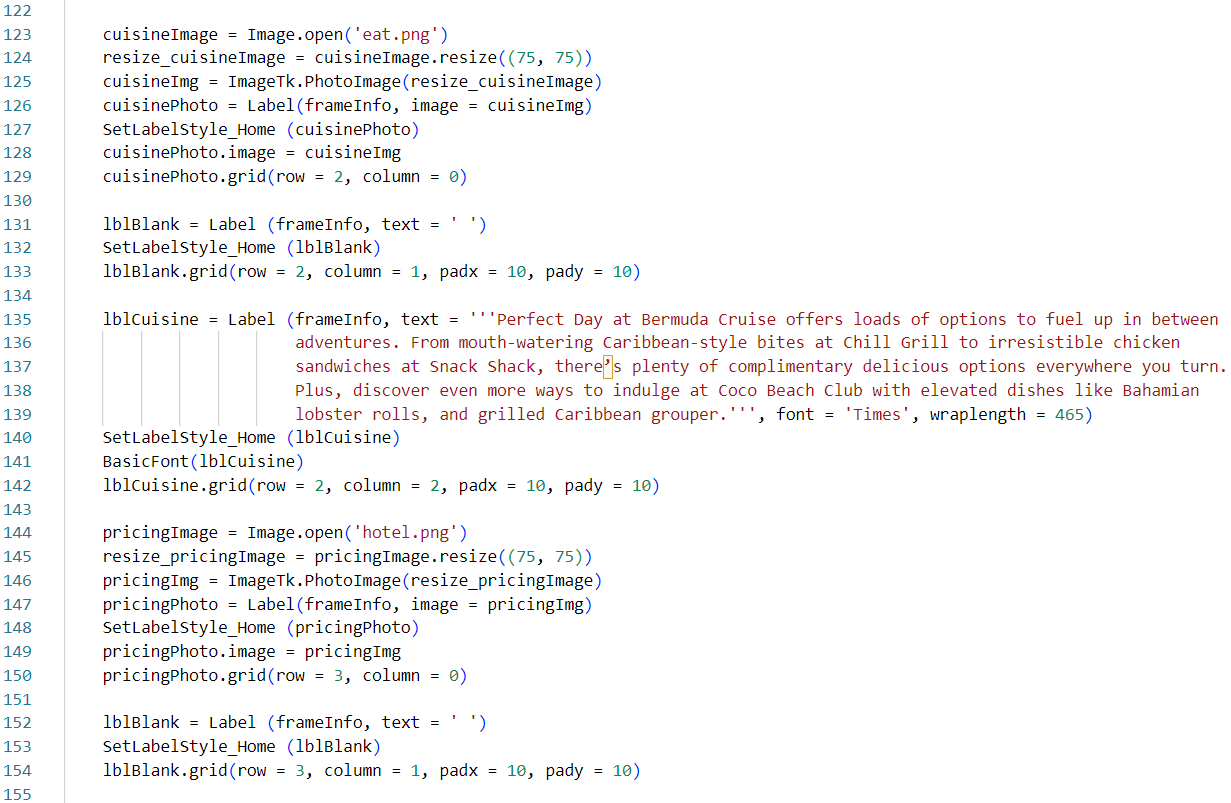
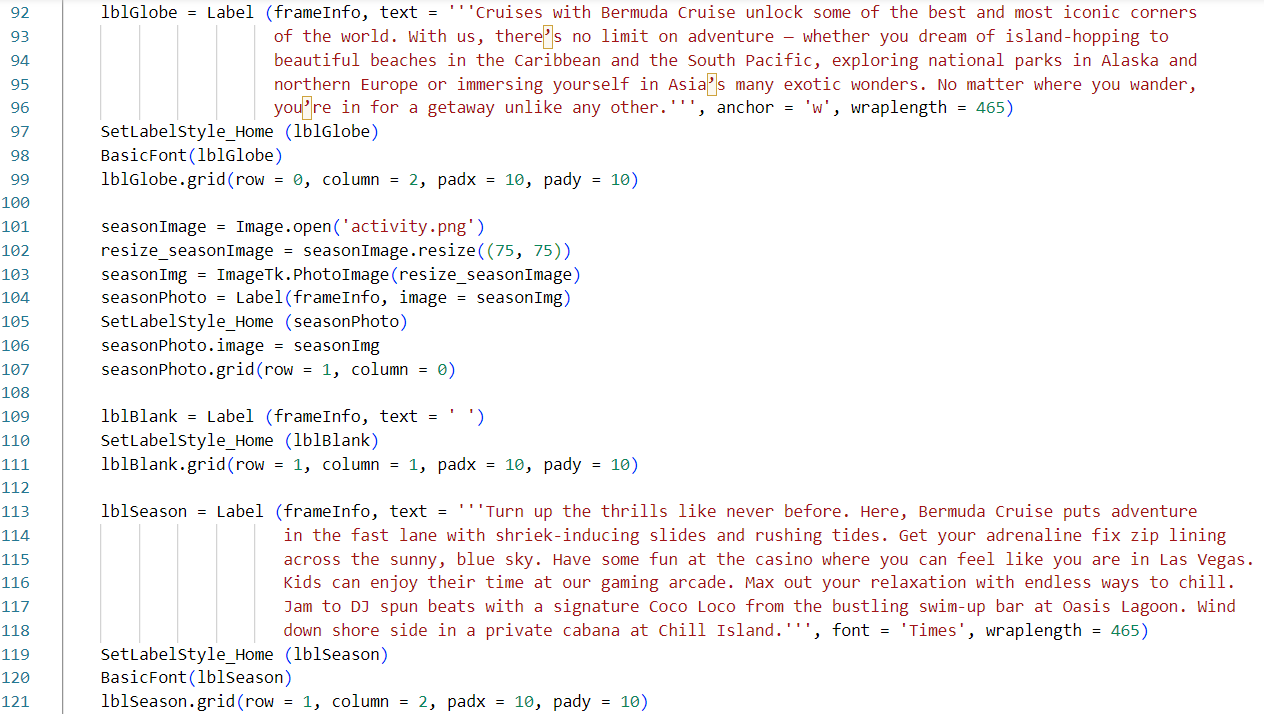
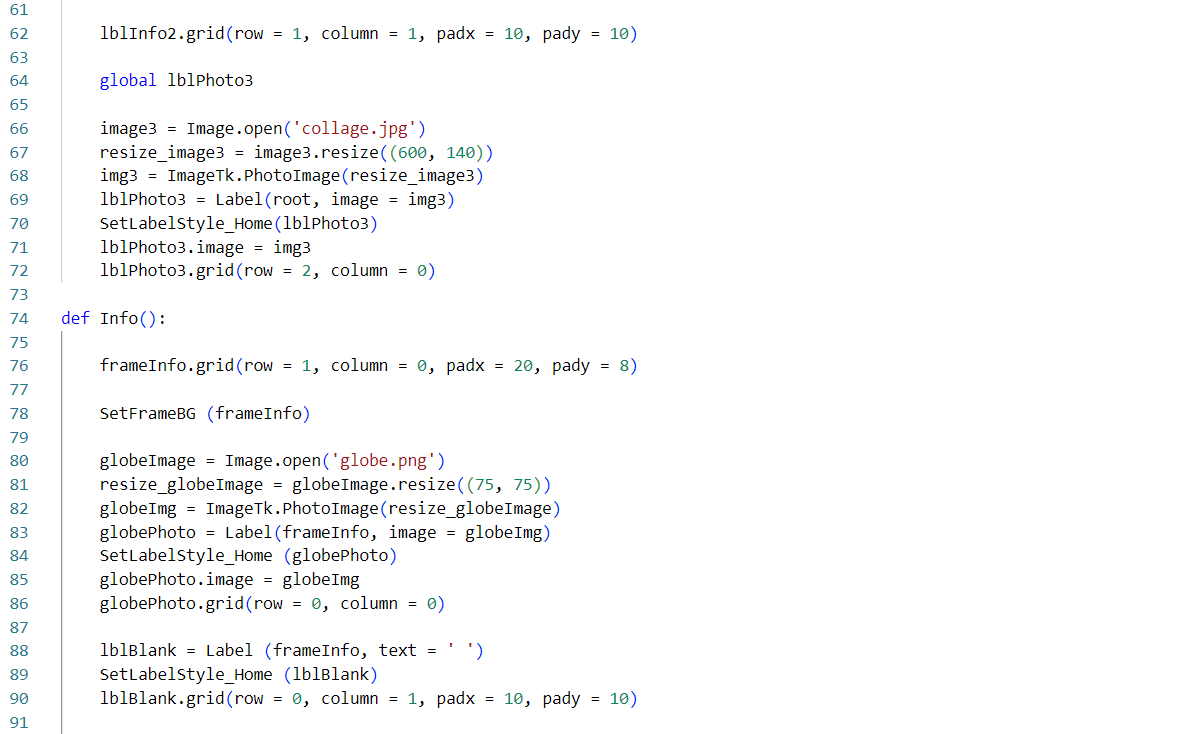


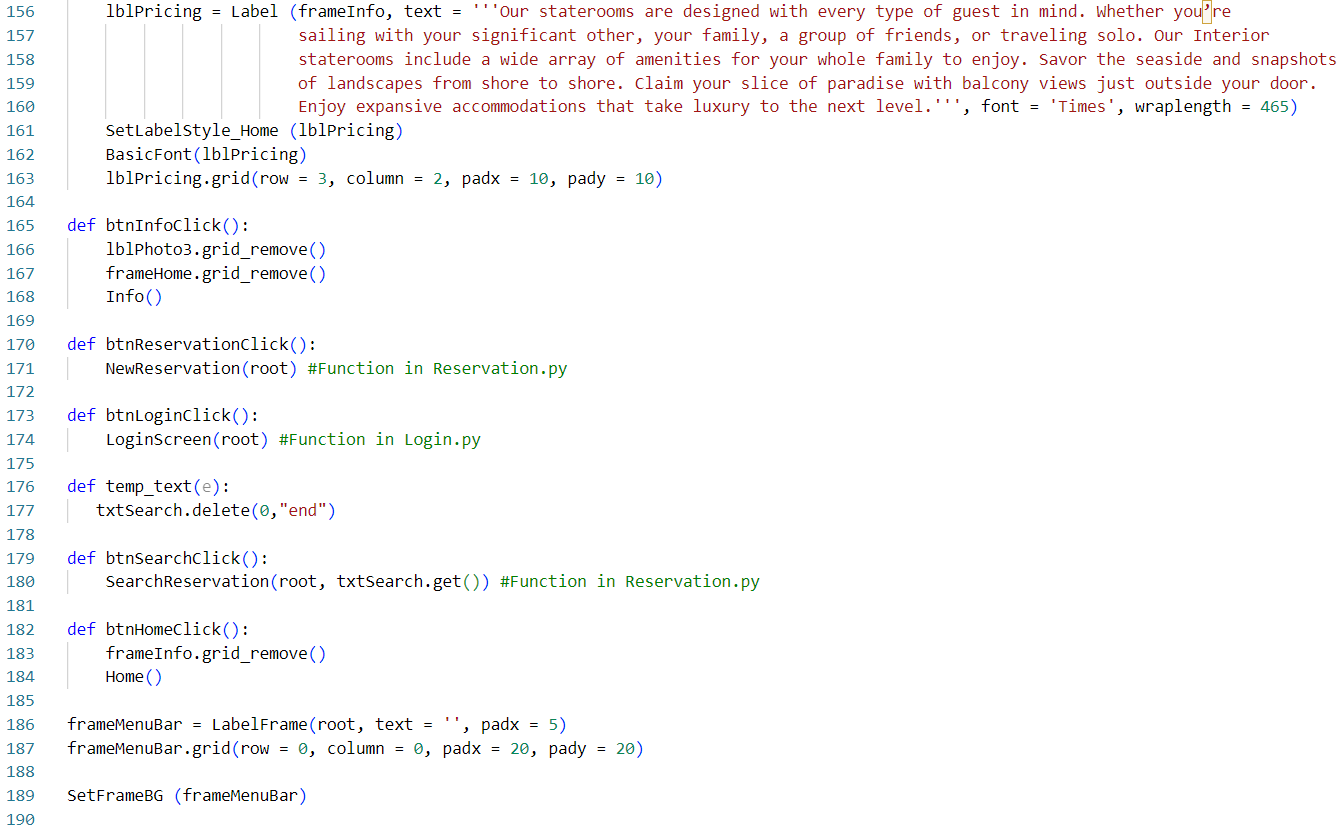
## **Python Code**

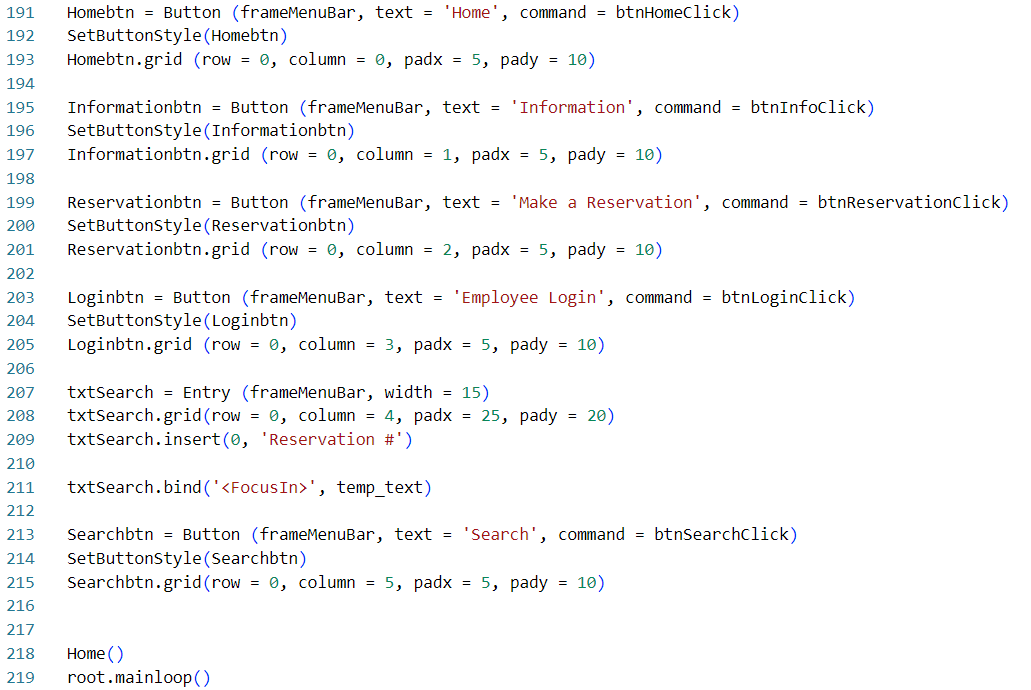
### **Home\_Window.py**



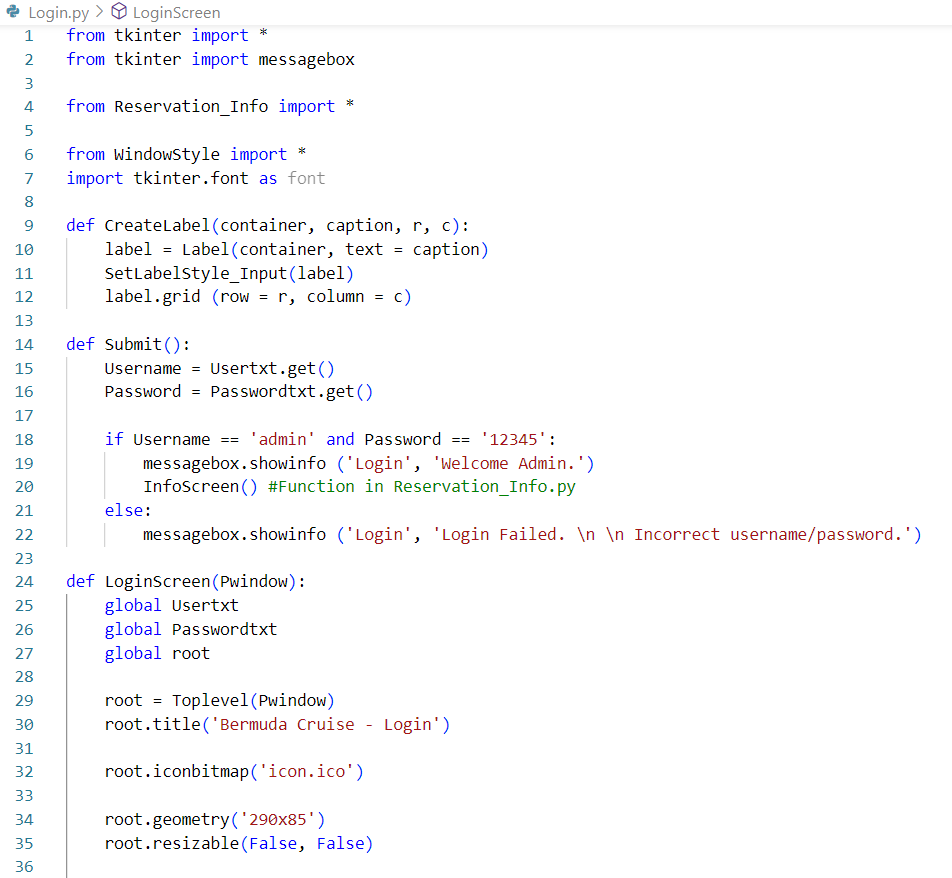


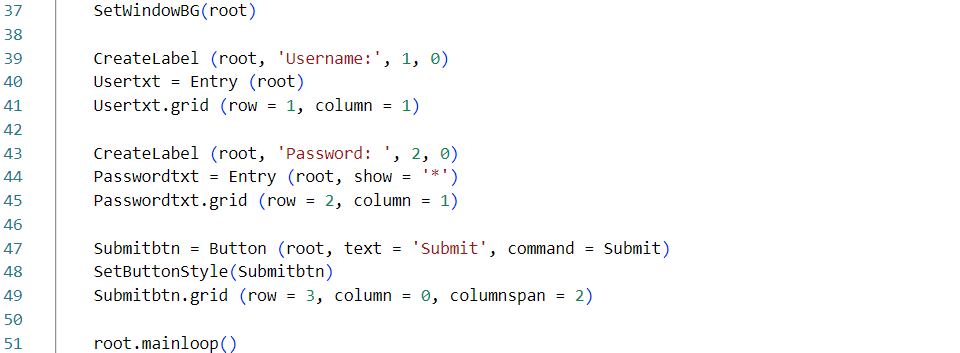




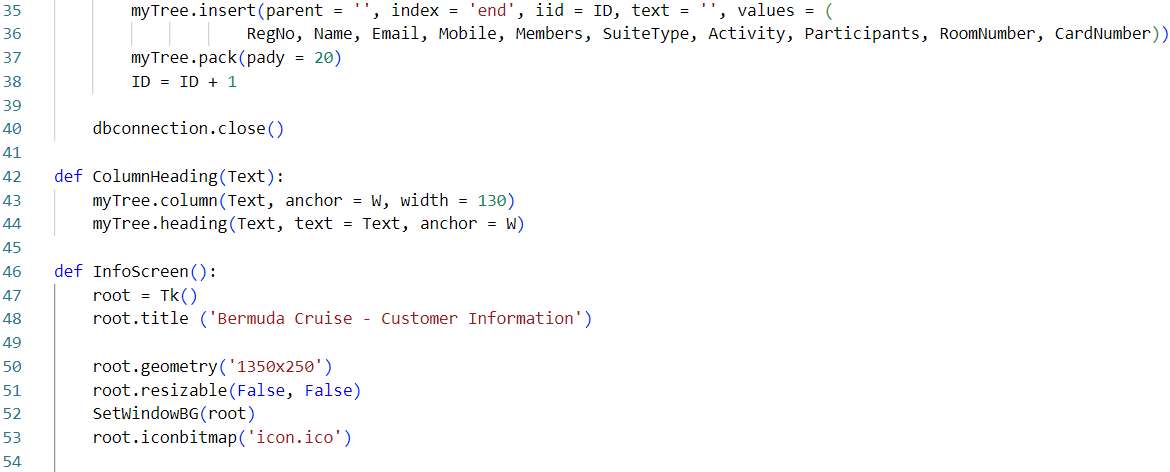


### **Login.py**



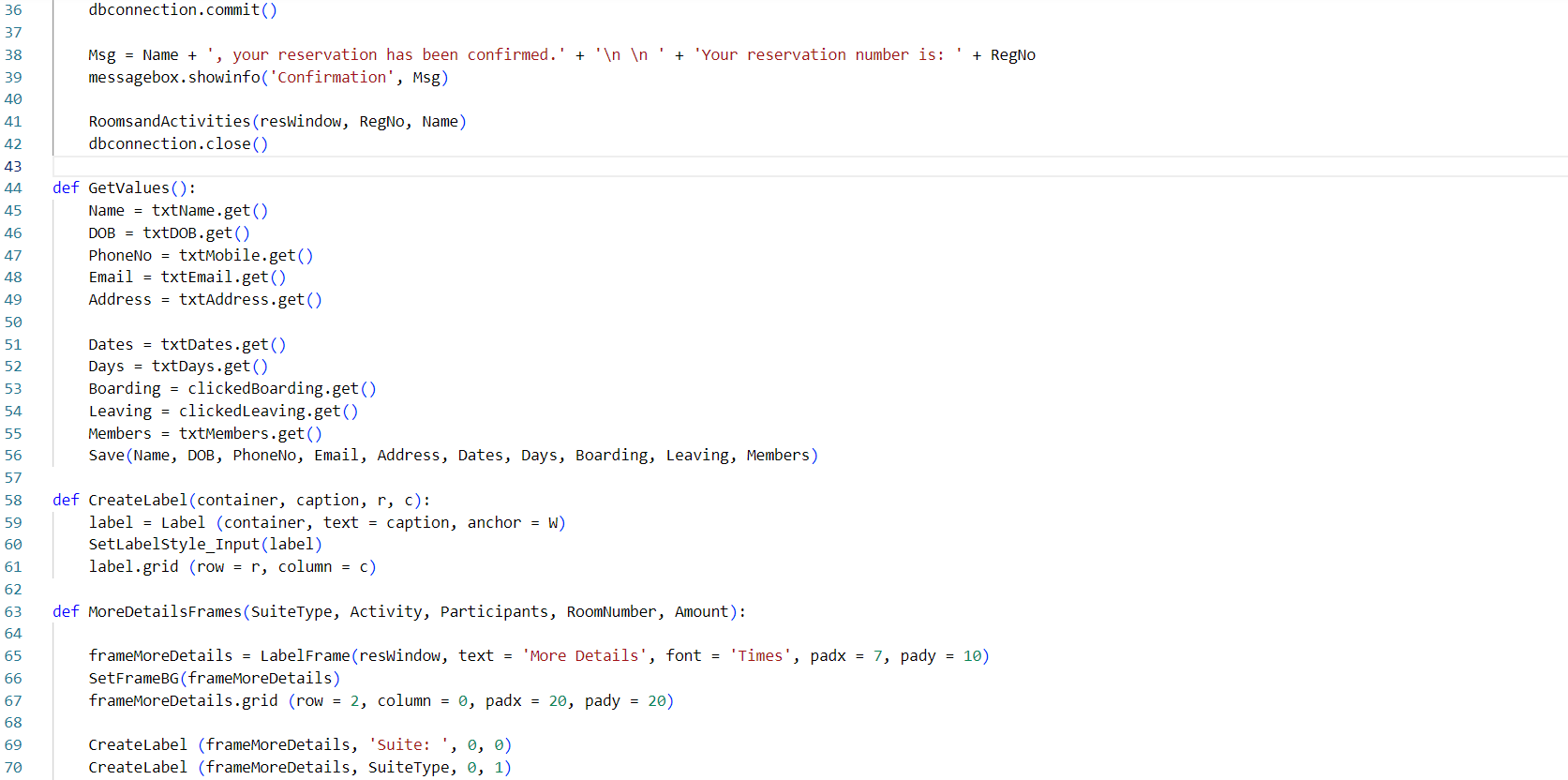
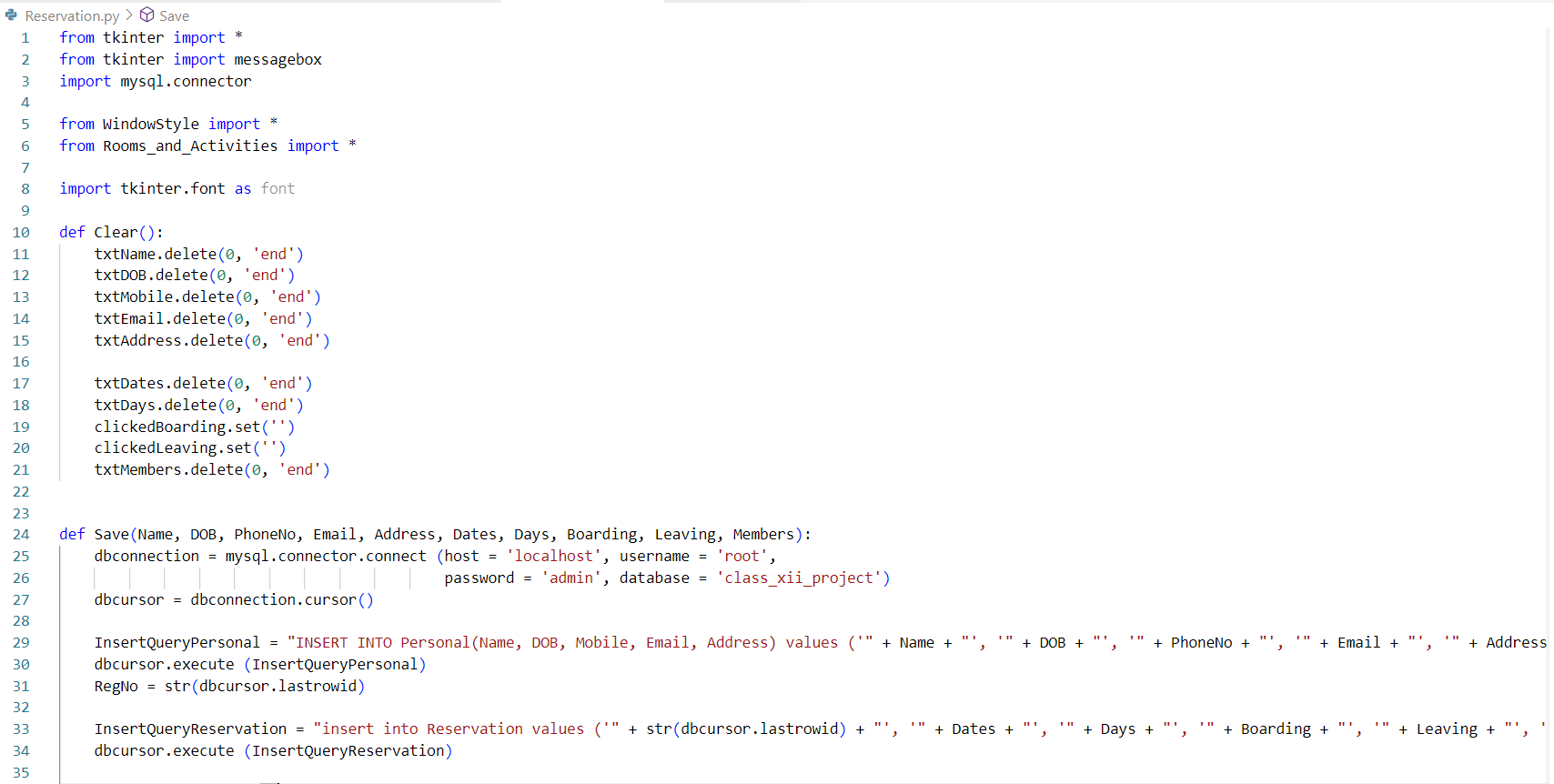


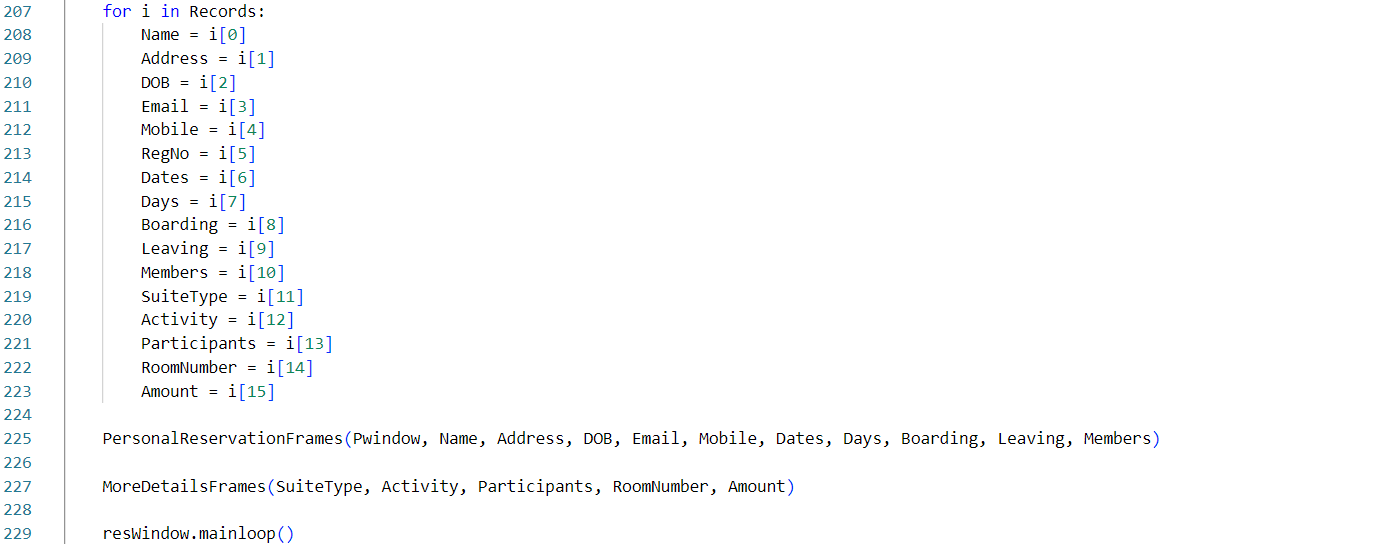
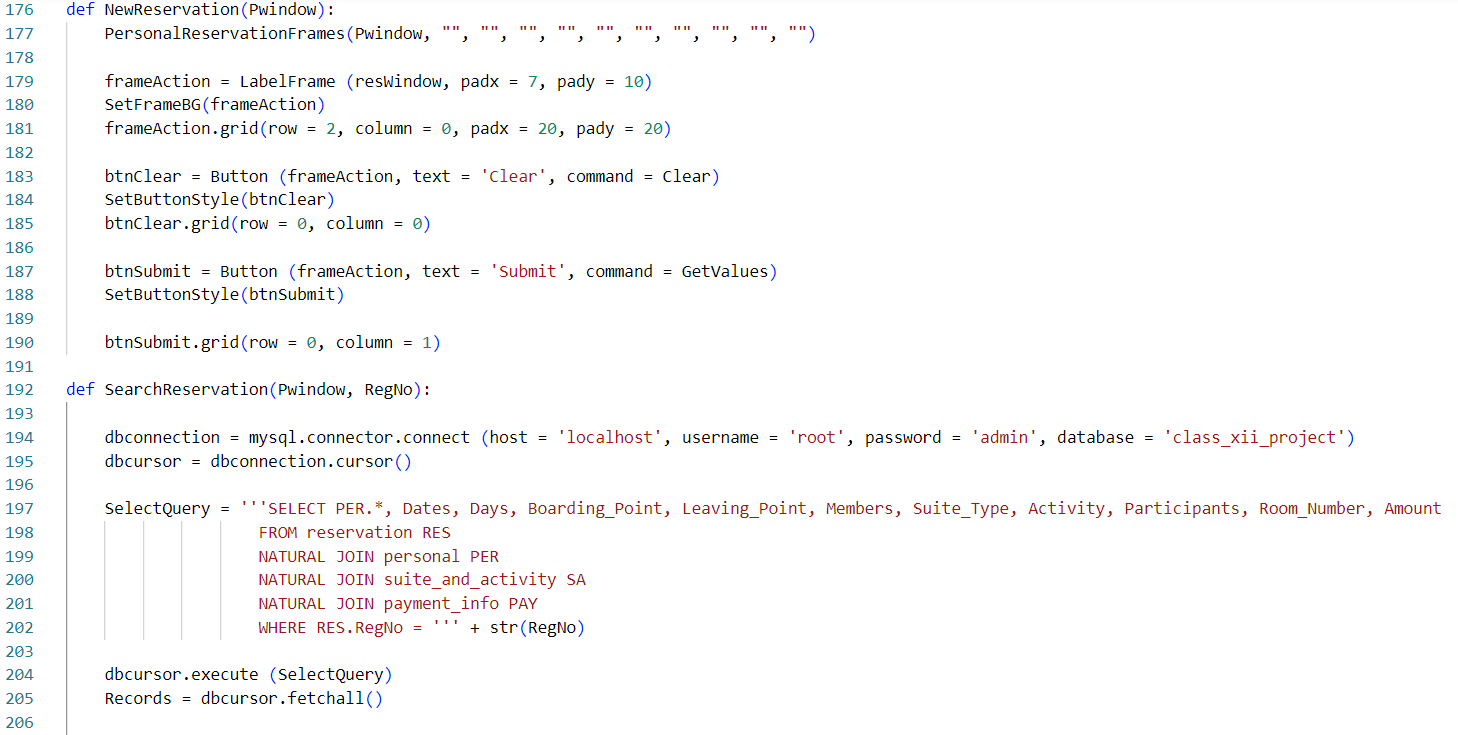
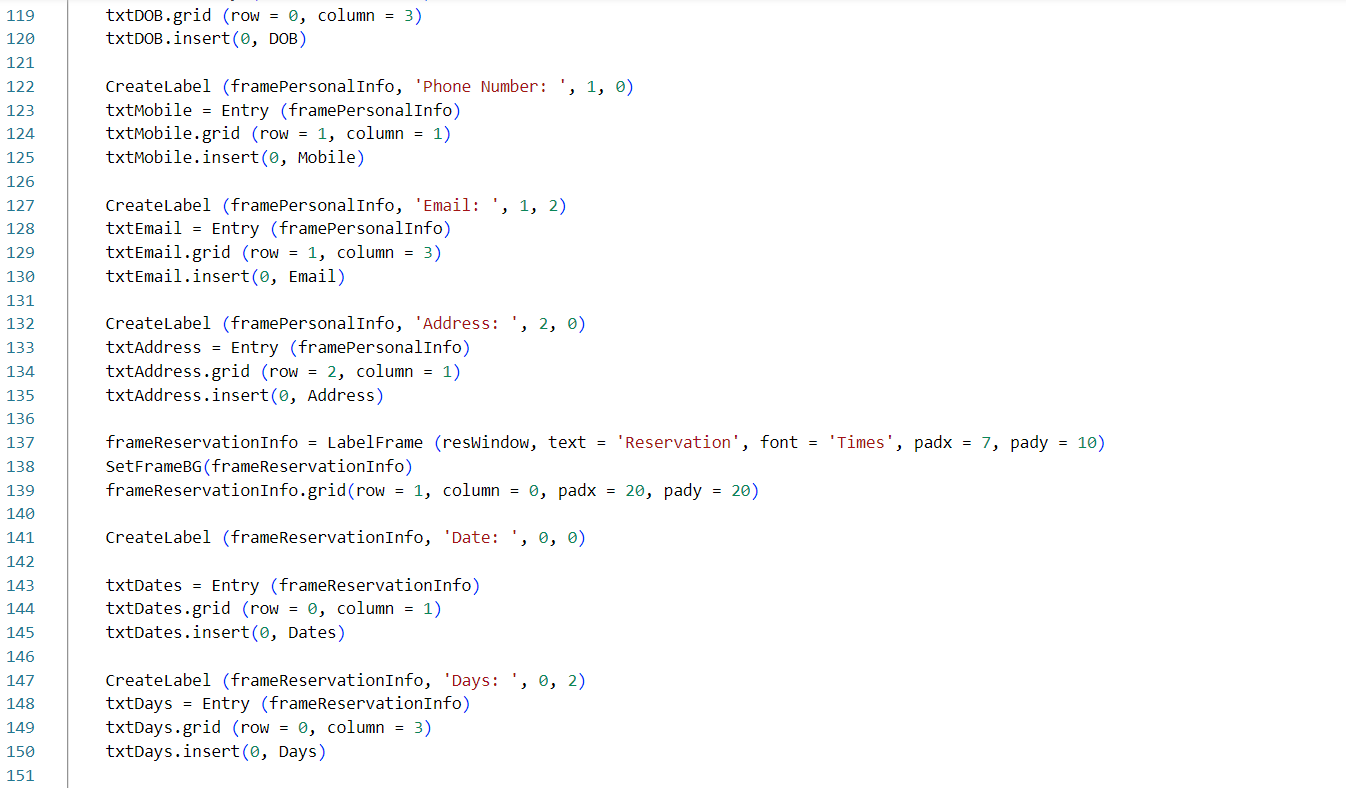
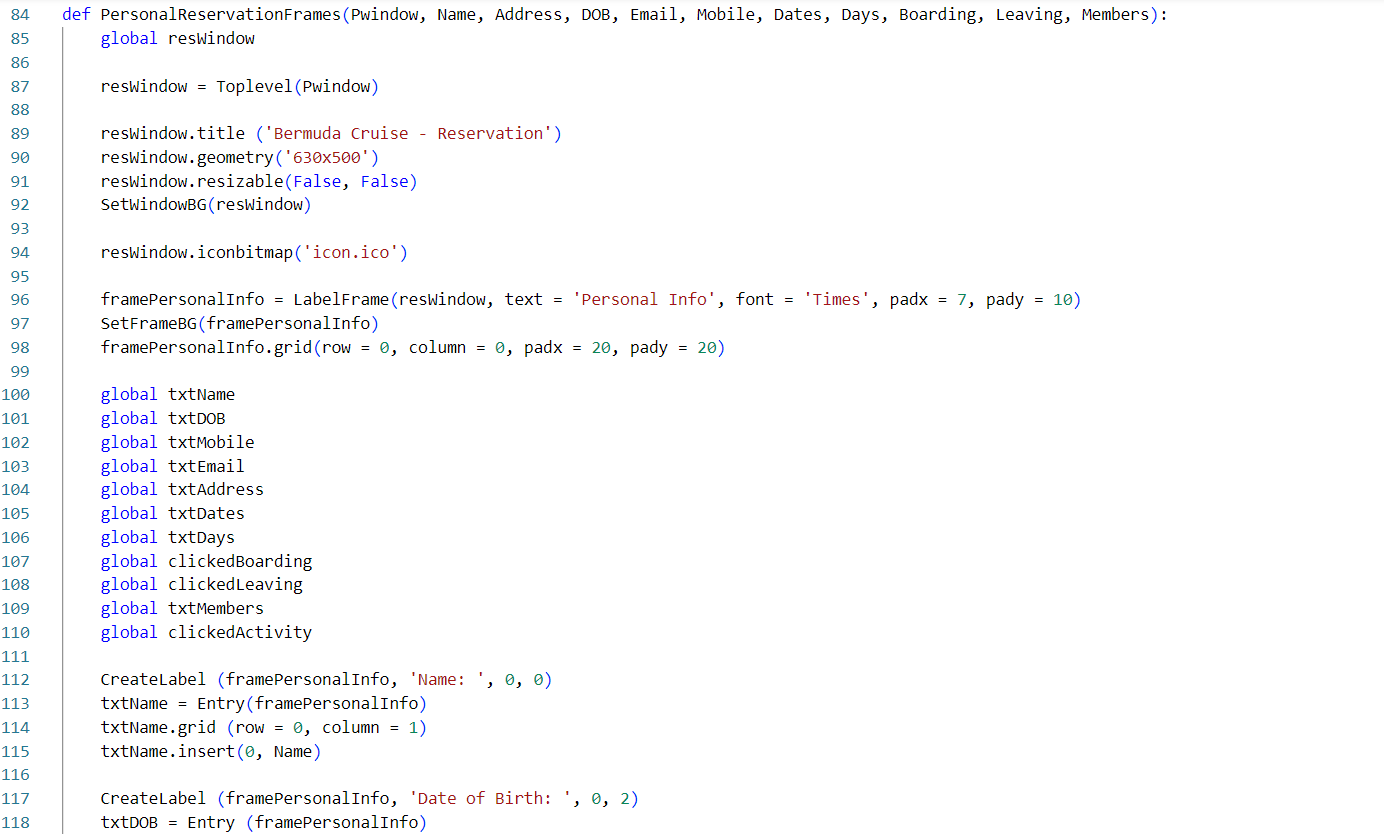
### **Reservation\_Info.py**

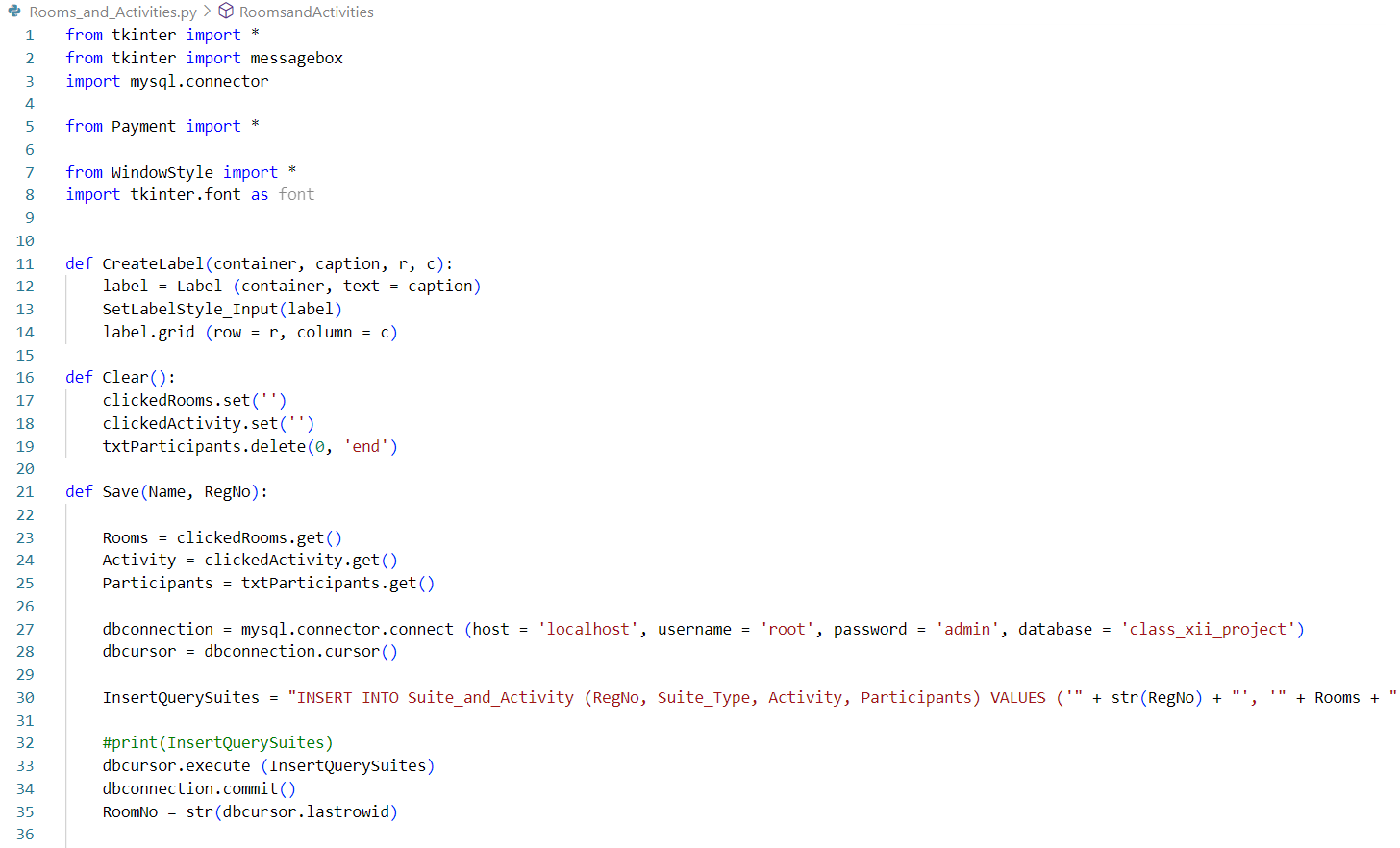


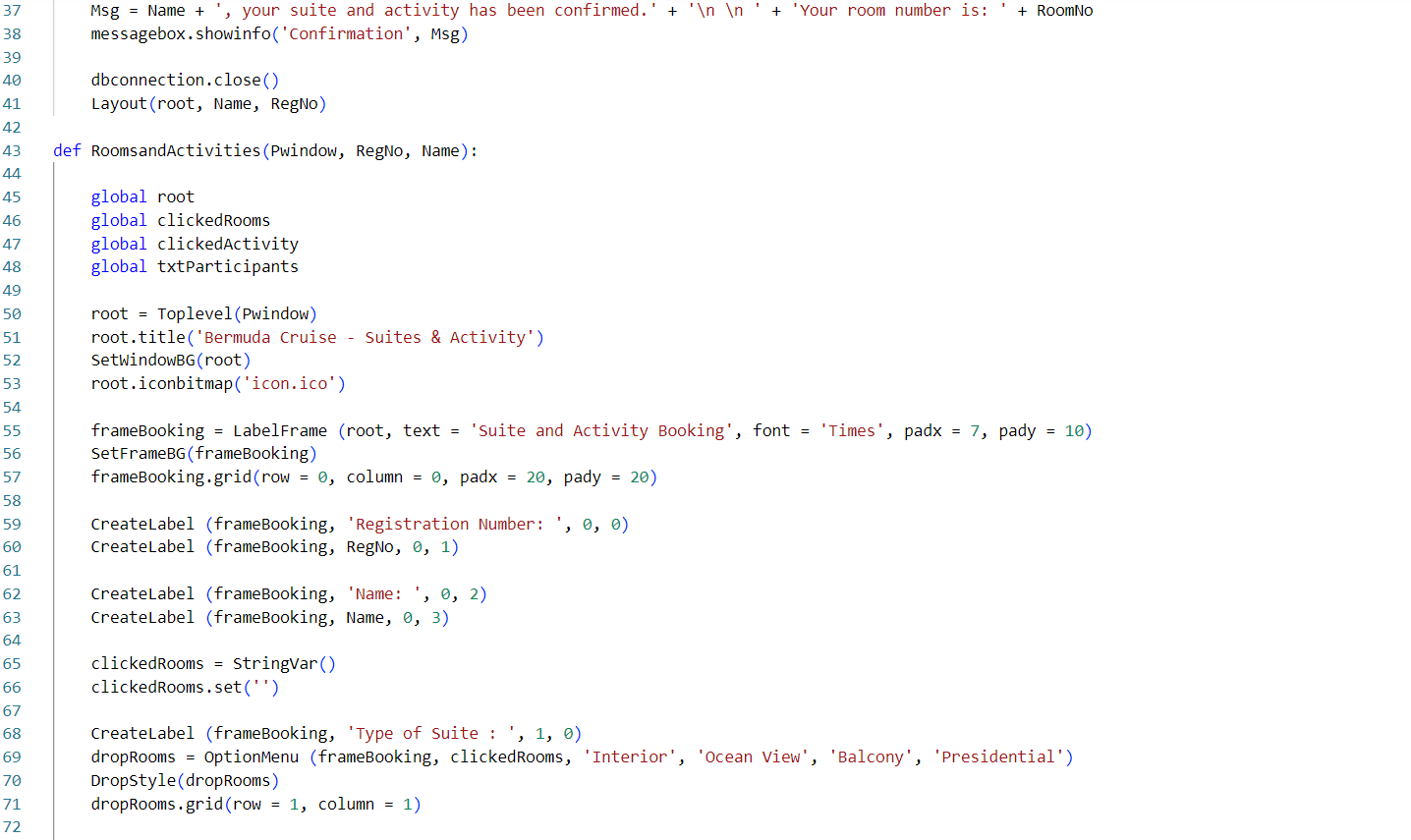


### **Reservation.py**

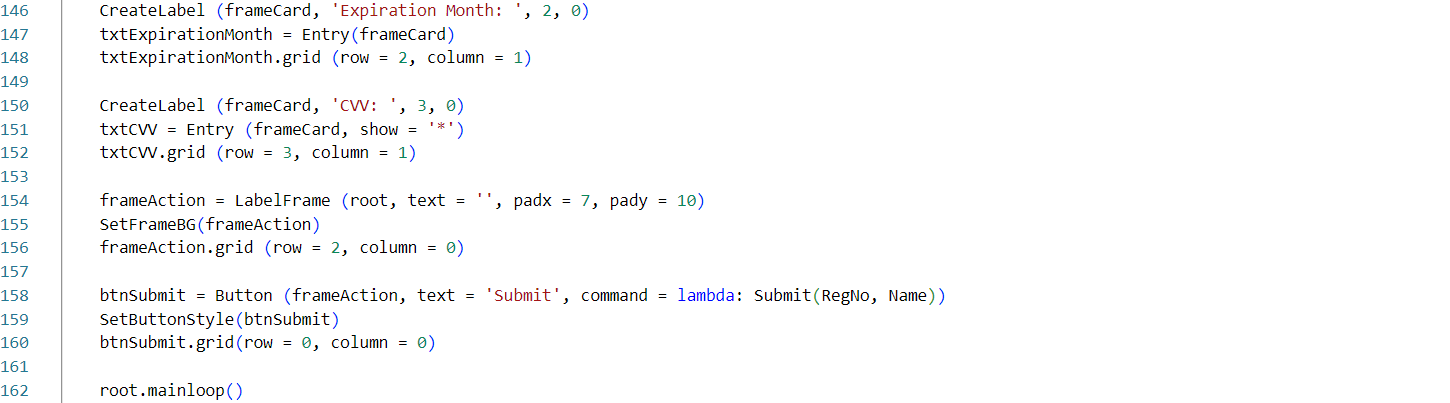
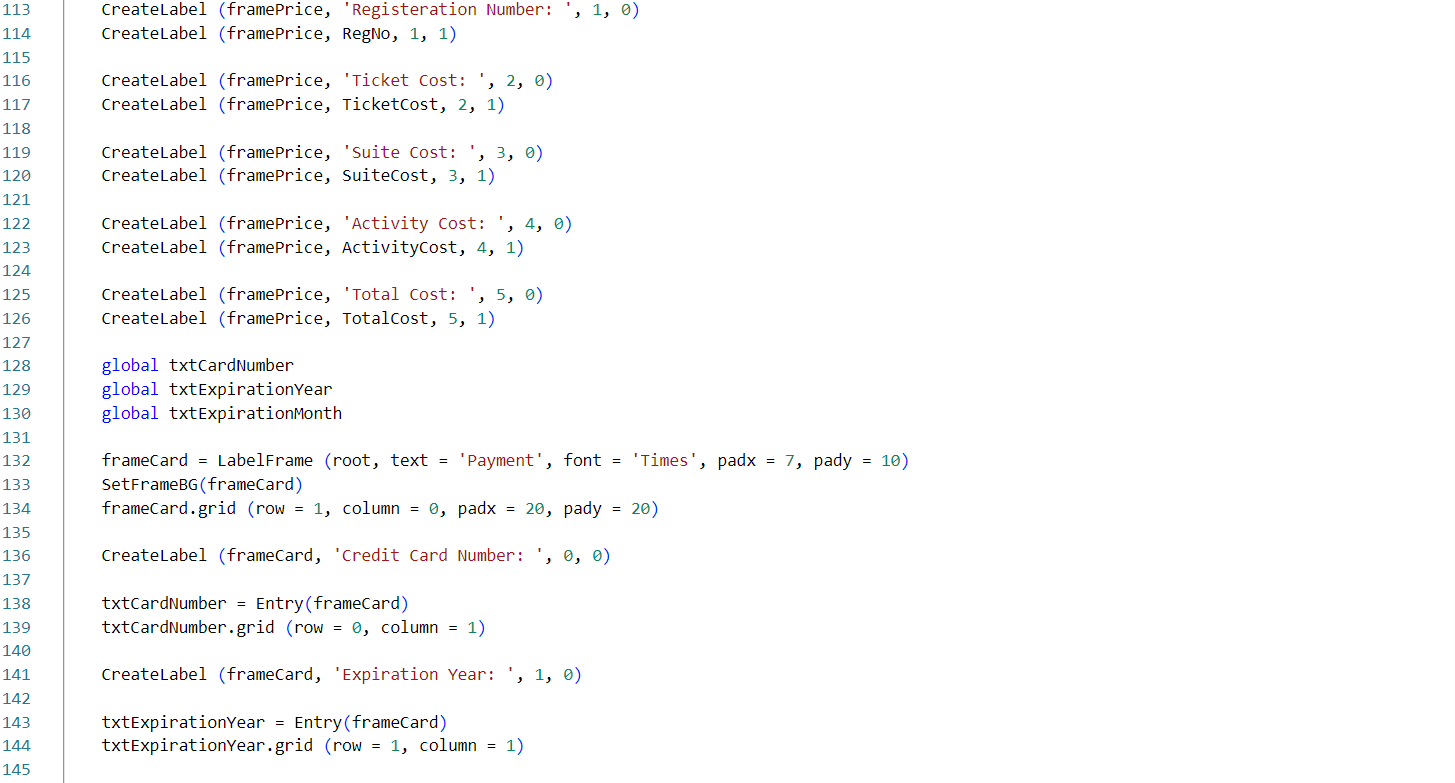
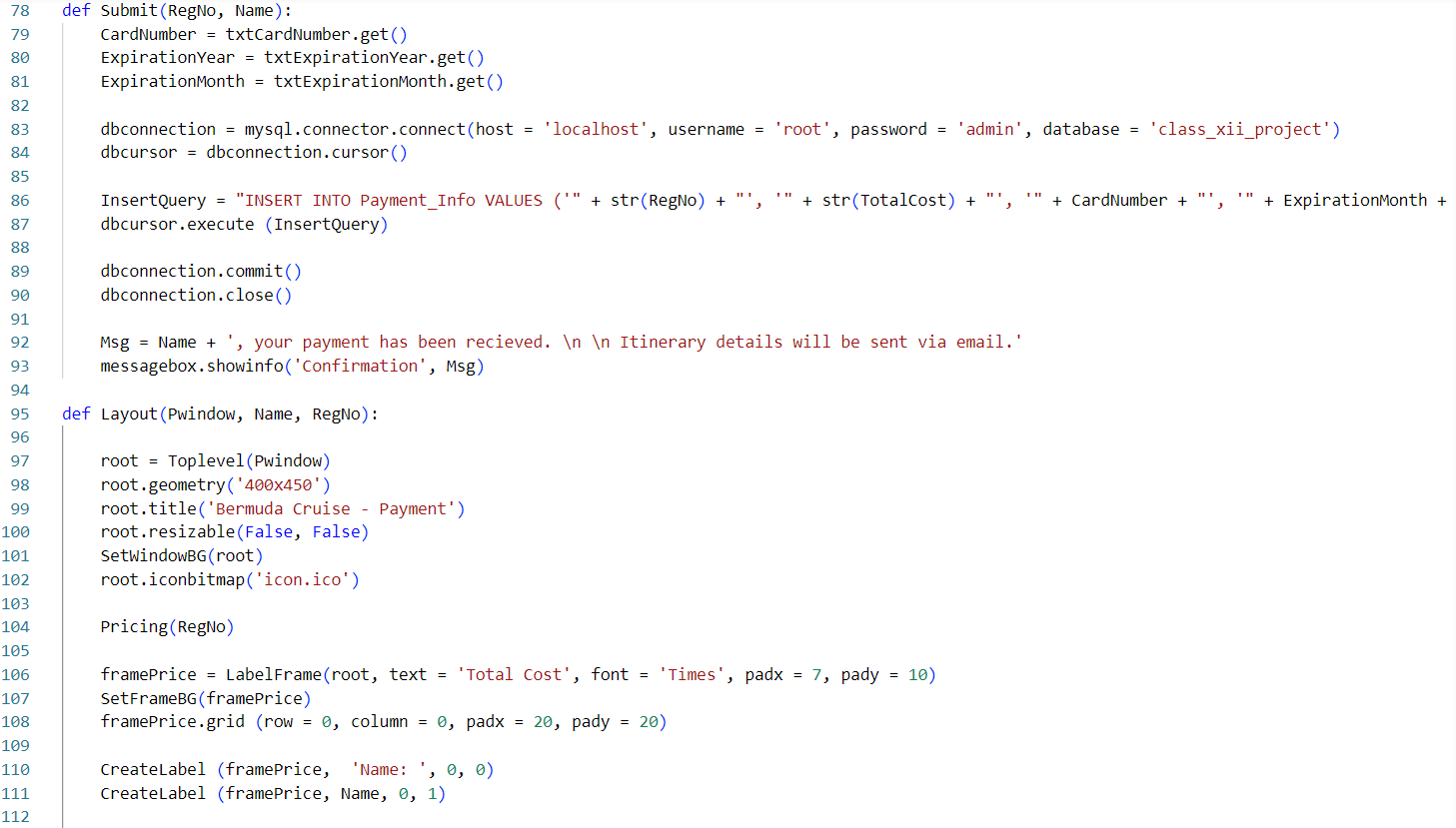




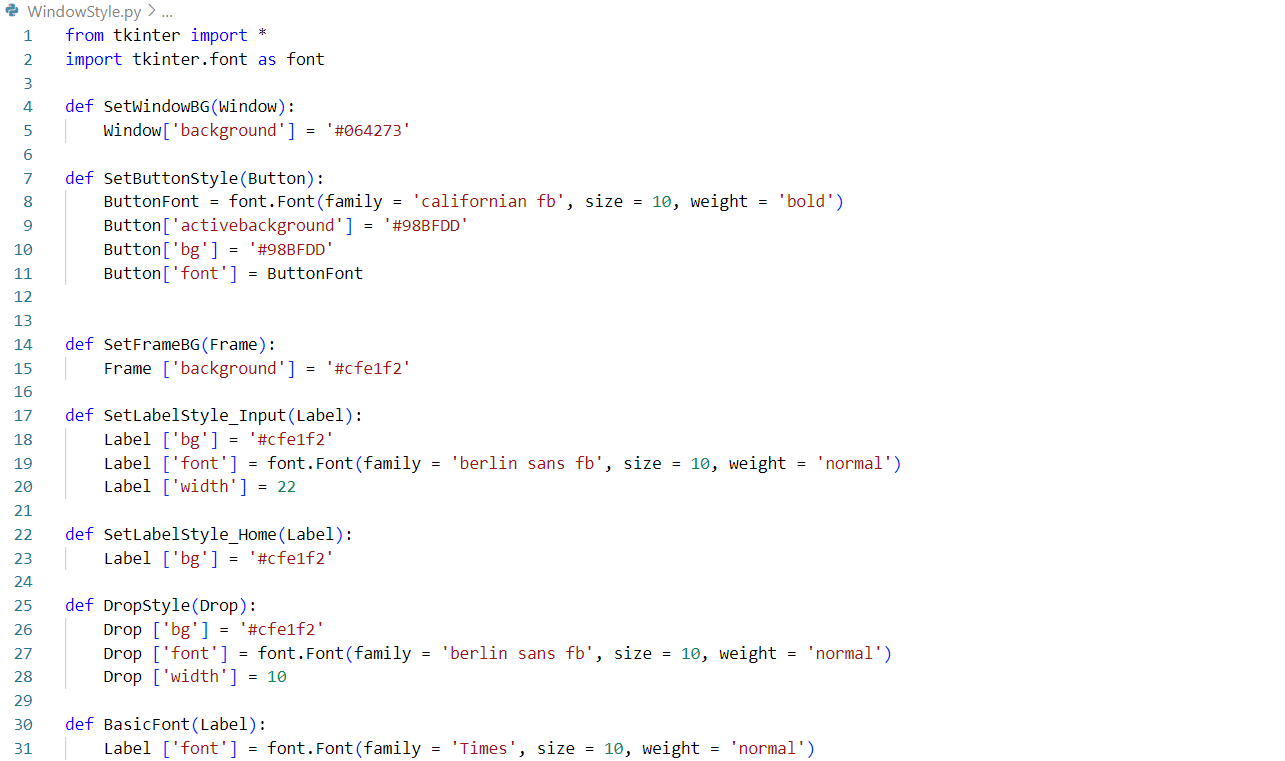
**Rooms\_and\_Activity.py**



### **Payment Screen**



### **WindowStyle.py**



# **Git Repo**

<https://github.com/ishitapareek/class-xii-project-reservation.git>

# **Software and Modules Requirements**

* IDLE (Python 3.11 64 bits)
  + TKinter
  + PIllow
* MySQL Workbench 8.0 C
* OS-Windows 11

# **Hardware**

* Dell Vostro 5620
* HP Pro book
* Dell Inspiron 15 3511

# **References**

### **Python GUI’s With TKinter**

<https://www.youtube.com/watch?v=yQSEXcf6s2I&list=PLCC34OHNcOtoC6GglhF3ncJ5rLwQrLGnV>

### **Python Tutorial**

<https://www.tutorialspoint.com/python/index.htm>

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