

VISUAL PROGRAMMING – FINAL TERM PRACTICAL EXAM

Rating

This practical exam is to create a system code, design a user interface and insert data into the MySQL database using the Visual Basic programming language.

Program (50pts)	Excellent	Good	Fair	Poor
Program execution	Program executes correctly with no syntax or runtime errors <i>(9-10pts)</i>	Program executes with a minor (2-10) error <i>(3-8pts)</i>	Program executes with a more (11-20) errors <i>(3-8pts)</i>	Program does not execute and only at the starting page <i>(0-2pts)</i>
Design of output	Program displays more than expected <i>(9-10pts)</i>	Program displays minimally expected output <i>(7-8pts)</i>	Program does not display the required output <i>(3-6pts)</i>	Output is poorly designed <i>(0-2 pts)</i>
Correct output	Program displays correct output with no errors <i>(9-10pts)</i>	Output has minor errors <i>(7-8pts)</i>	Output has multiple errors <i>(3-6pts)</i>	Output is incorrect <i>(0-2 pts)</i>
Attention to detail and instruction	Program contains no errors attributable to simple mistakes or oversights. Spelling, form title, object names, choice of objects, object alignment, etc. <i>(9-10pts)</i>	Program contains minor (2-10) of the following: spelling error, form title, object used incorrectly, label, etc. <i>(7-8pts)</i>	Program contains multiple (11-20) minor of the following: spelling error, form title, object used incorrectly, label, etc. <i>(3-6pts)</i>	Program contains more than 20 of the following: spelling errors, form title, and object used incorrectly, label, etc. <i>(0-2 pts)</i>
Database Connectivity	All transaction data will be insert into the database <i>(8-10pts)</i>		Some of the data does not inserted to the database <i>(2-7pts)</i>	No data connection at all <i>(0-1pts)</i>

Project Name: LASTNAME_AS(No.)_FPE

Example: BANDAS_AS118_FPE

Each form must have a proper name

Example: Form1 -> Login Page

TIME: 2 Days

DEADLINE: 2nd day @11:59pm

NOTE:

- Read always the instruction.
- Create and design your program based on what the instruction given. Use internet to get an icon for the program. Every data of the transaction must be inserted to your tables of the database.
- Copying and modifying the work of your classmate is prohibited. (Automatic **FAILED** if caught).
- When submitting your finished system, export the MySQL database and include it to your system folder. Then compressed your system using WinZip or WinRAR only.

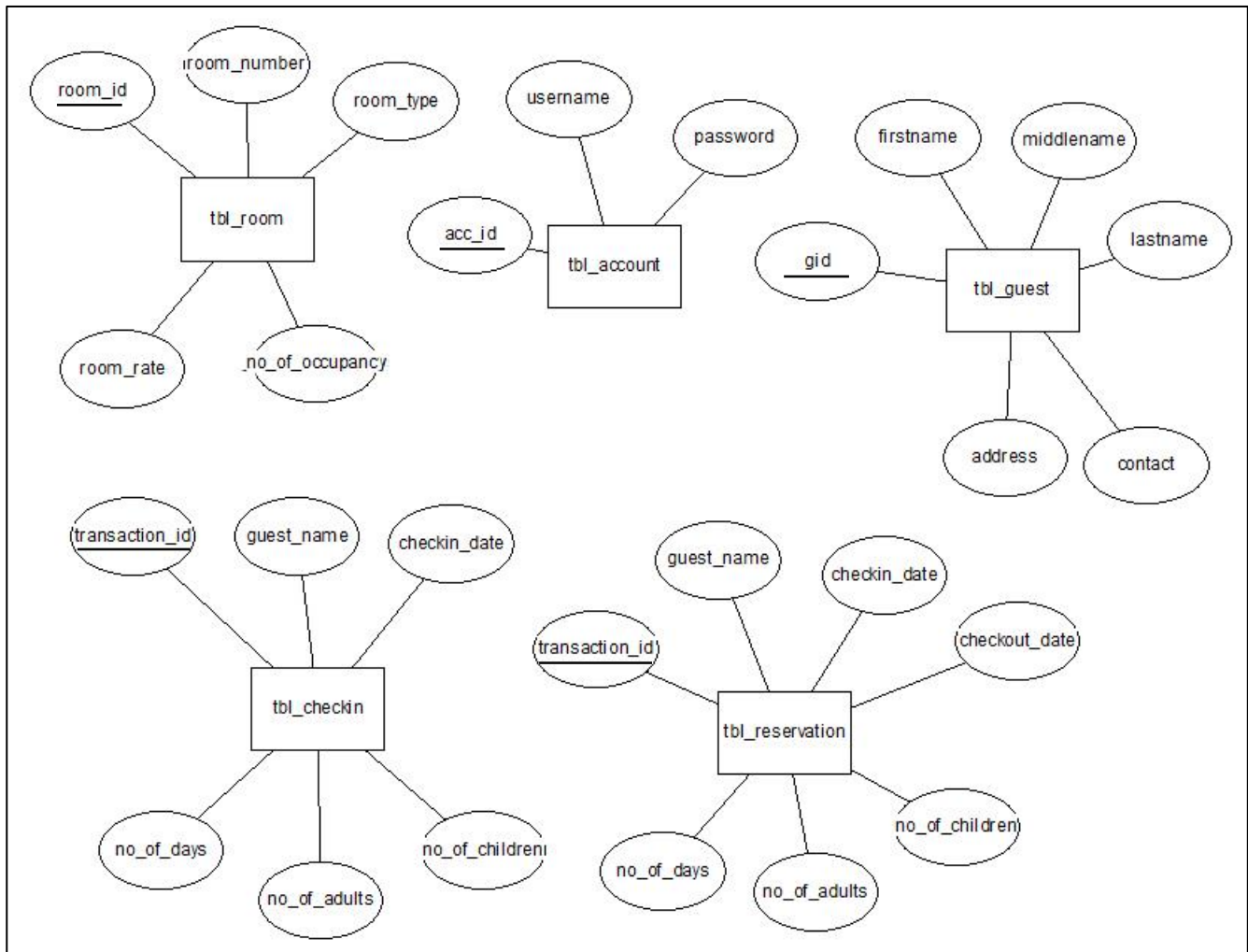
Run the MySQL XAMPP and create a database and tables. The **LASTNAME** should be replaced with your family name and (No) for the subject code.

Database: db_LASTNAME_AS(No.)_FPE

Example: db_BANDAS_AS118_FPE

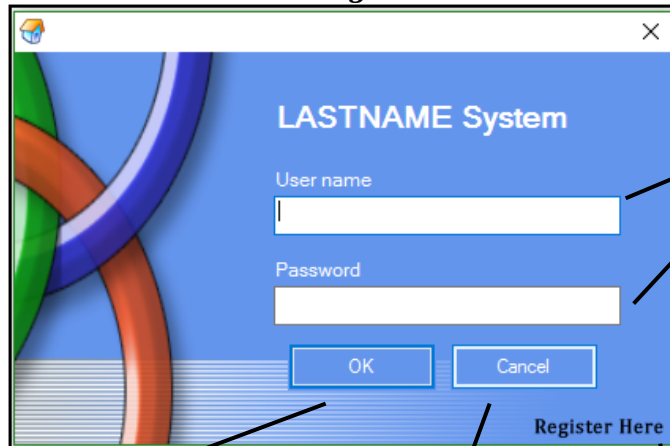
Tables: tbl_guest, tbl_room, tbl_reservation, tbl_checkin, tbl_account

Create the fields of each table based on the attribute shown in the image below.

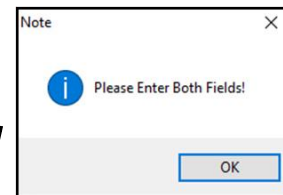


Create a form similar to **Image#1**. The **LASTNAME** should be replaced with your family name.

Image#1

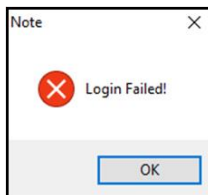


The login form has a blue header with the text "LASTNAME System". Below the header are two input fields: "User name" and "Password". At the bottom are two buttons: "OK" and "Cancel". A "Register Here" link is located at the bottom right of the form.



A small dialog box titled "Note" with a blue information icon. The message says "Please Enter Both Fields!". There is an "OK" button at the bottom.

An alert message will appear that is similar to the image above (*with title, icon and button*) if there is no text inputted in the username and password once it is submitted.



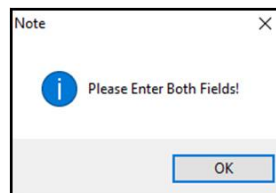
A small dialog box titled "Note" with a red error icon. The message says "Login Failed!". There is an "OK" button at the bottom.

An alert message will appear that is similar to the image above (*with title, icon and button*) if the username and password is not correct.



A small dialog box titled "Note" with a blue information icon. The message says "Login Successful!". There is an "OK" button at the bottom.

An alert message will appear that is similar to the image above (*with title, icon and button*) if the username and password is correct and proceed to the main page.



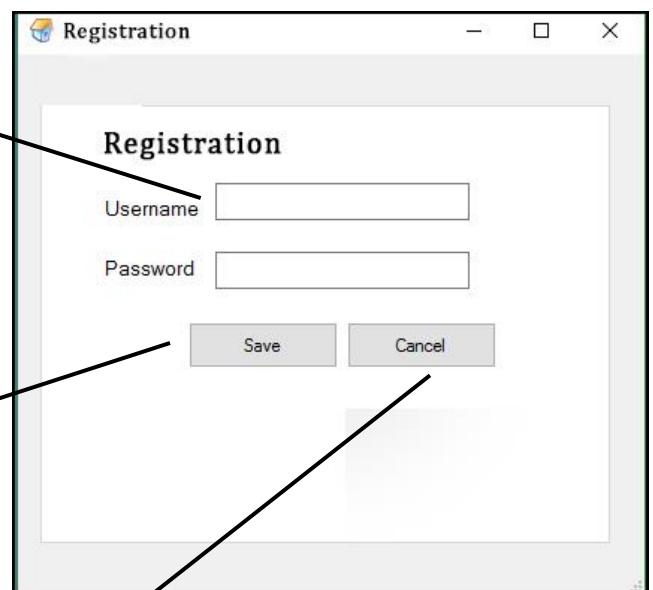
A small dialog box titled "Note" with a blue information icon. The message says "Please Enter Both Fields!". There is an "OK" button at the bottom.

An alert message will appear that is similar to the image above (*with title, icon and button*) if there is no text inputted in the username and password once it is save.



A small dialog box titled "Account Registration" with a blue information icon. The message says "Successfully Added!". There is an "OK" button at the bottom.

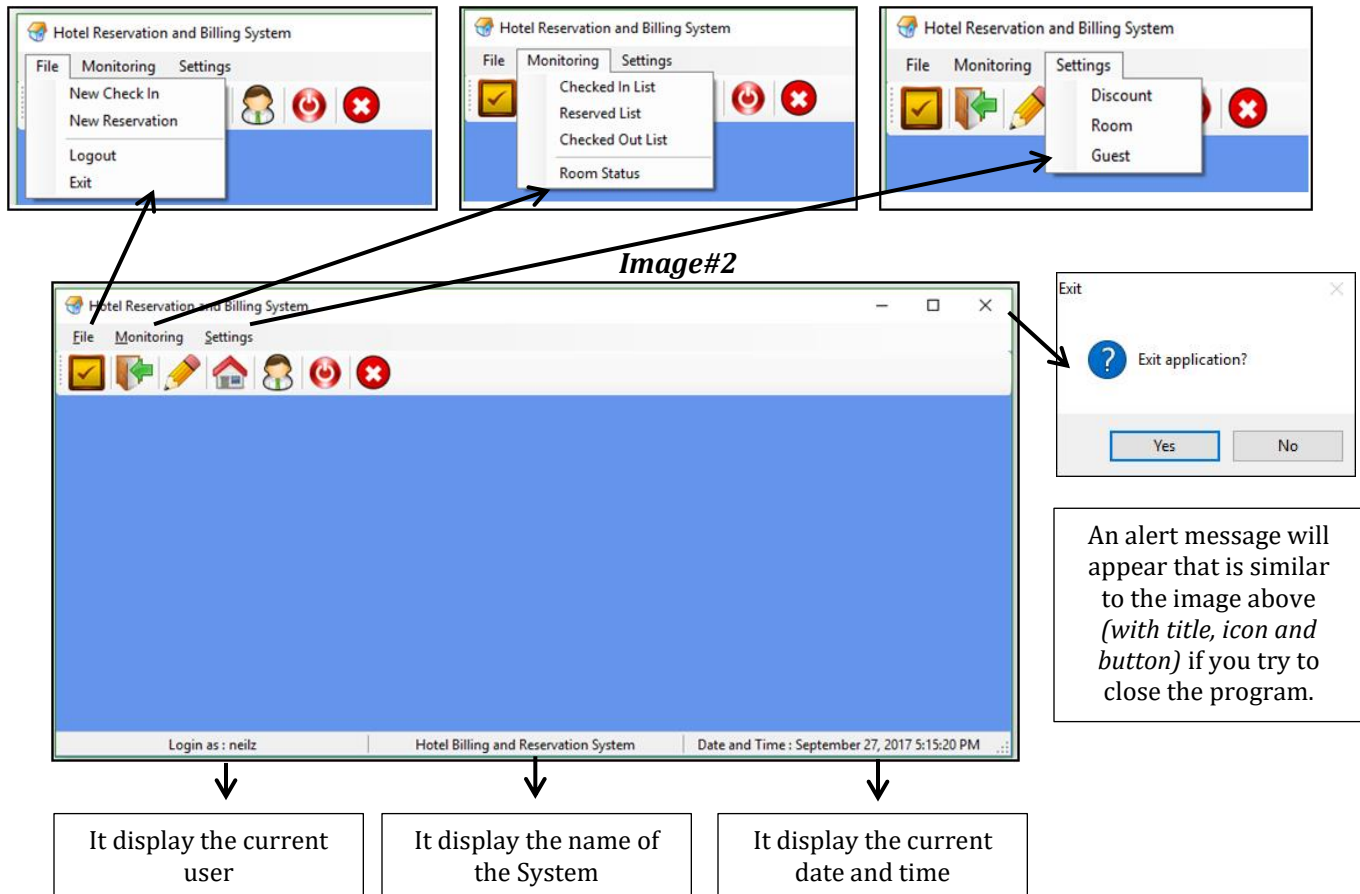
An alert message will appear that is similar to the image (*with title, icon and button*) if the username and password are successfully inputted.
NOTE:
The data inputted must be inserted to the table of your database.



The registration form has a light gray header with the text "Registration". Below the header are two input fields: "Username" and "Password". At the bottom are two buttons: "Save" and "Cancel".

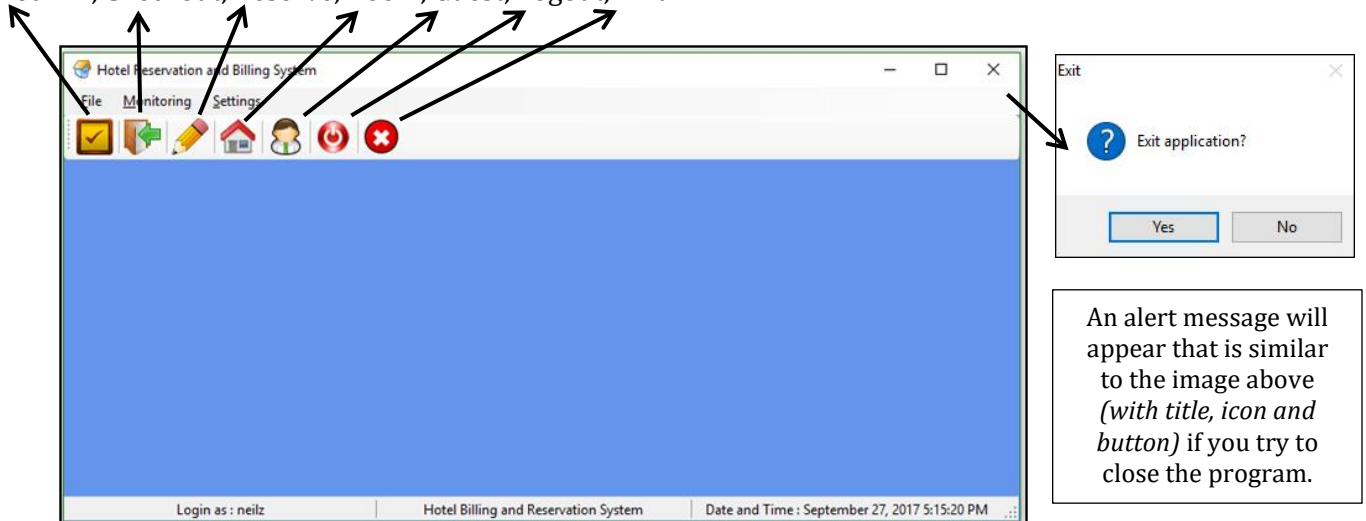
Cancel button will close the Registration Form and open the Login Page

Create another form similar to **Image#2**. Use the **MenuStrip** for the system menu **File, Monitoring, and Setting**.



Use **ToolStrip** for creating a button and placed under the menu. If you mouse hover the button it will display the button name which is:

Check-in, Checkout, Reserve, Room, Guest, Logout, Exit



Create another form (Check in Form) similar to **Image#3**. If you click the Checkin button a dialog box will appear.

Image#3

Check In Form

Transaction ID

Guest Name

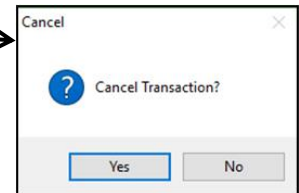
Check In Date

No. Of Days

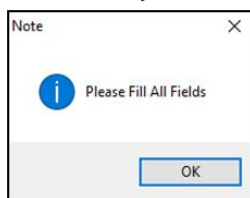
No. Of Adults

No. Of Children

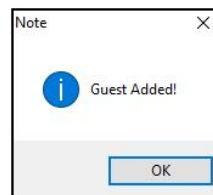
Check In Clear



An alert message will appear that is similar to the image above (with title, icon and button) if you try to close the check in form.



An alert message will appear that is similar to the image above (with title, icon and button) if there is no text inputted in the textboxes once it is checkin.



The clear button will remove the inputted text in all the textboxes

An alert message will appear that is similar to the image above (with title, icon and button) if all the textboxes are filled and check-in.

NOTE:

The data inputted of the Checkin Form must be inserted into the table of your database.

Create a DataGridView similar to **Image#4**.

Image#4

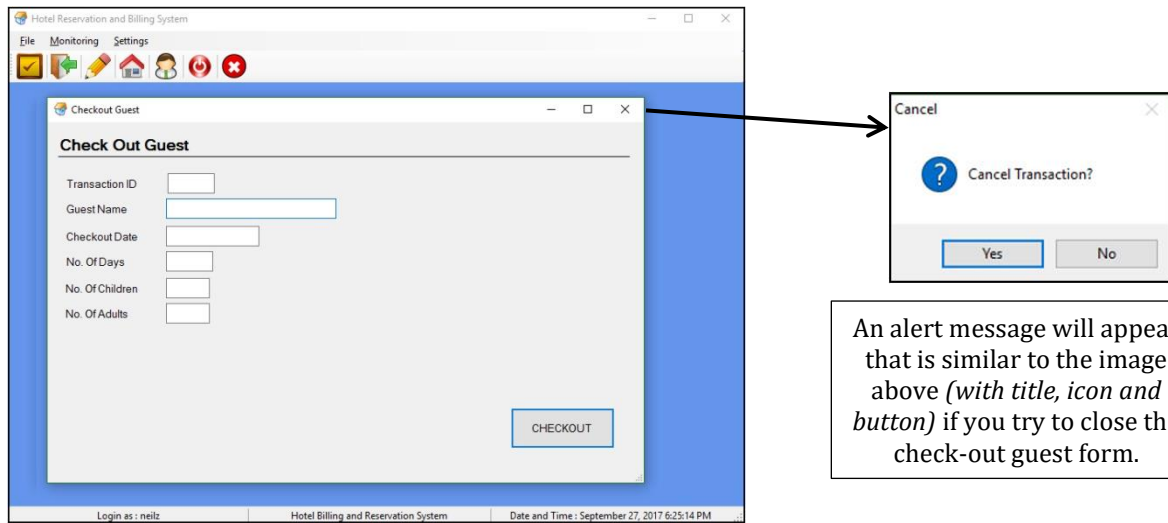
Check In List

Transaction ID	Guest Name	Check In Date	No. of Days	No. of Adults	No. of Children

The data added to the checkin form must be display in the check in list

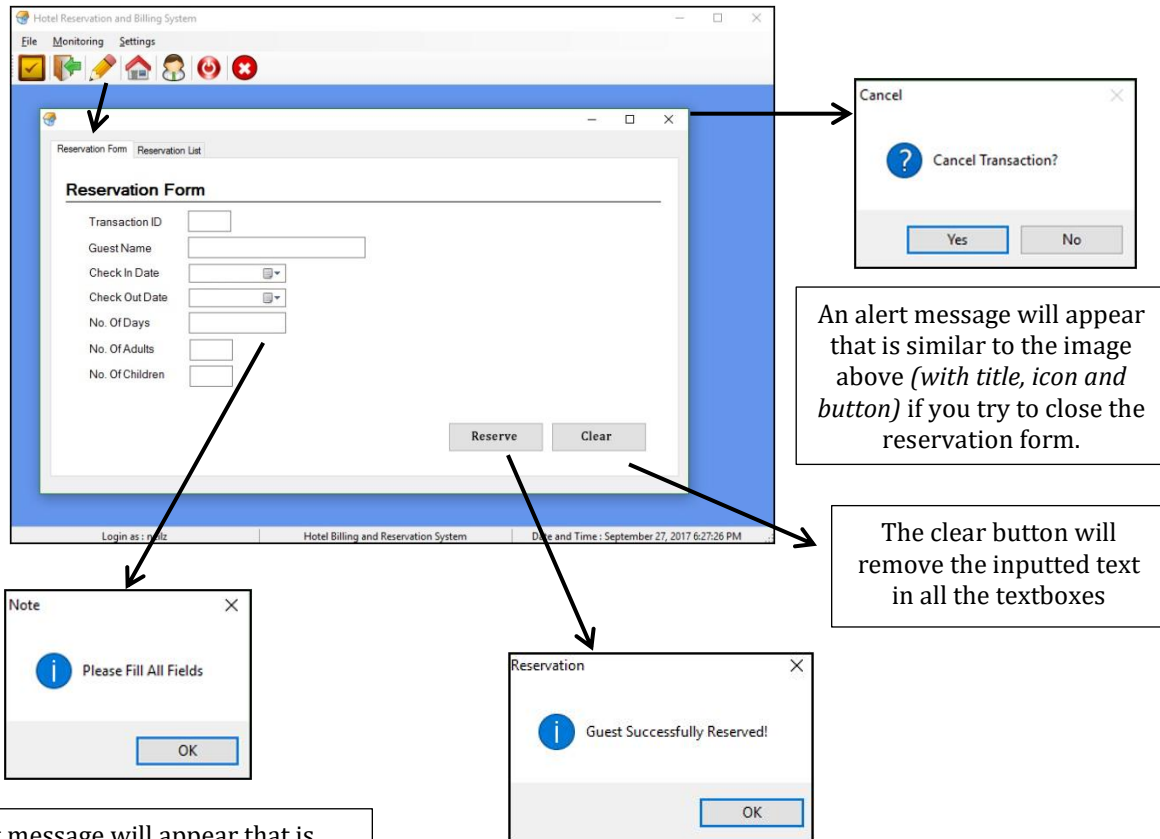
Create another form (Check out Guest) similar to **Image#5**. If you click the checkout button a dialog box will appear.

Image#5



Create another form (Reservation Form) similar to **Image#6**. If you click the checkin button a dialog box will appear.

Image#6



An alert message will appear that is similar to the image above (with title, icon and button) if there is no text inputted in the textboxes once it is reserve

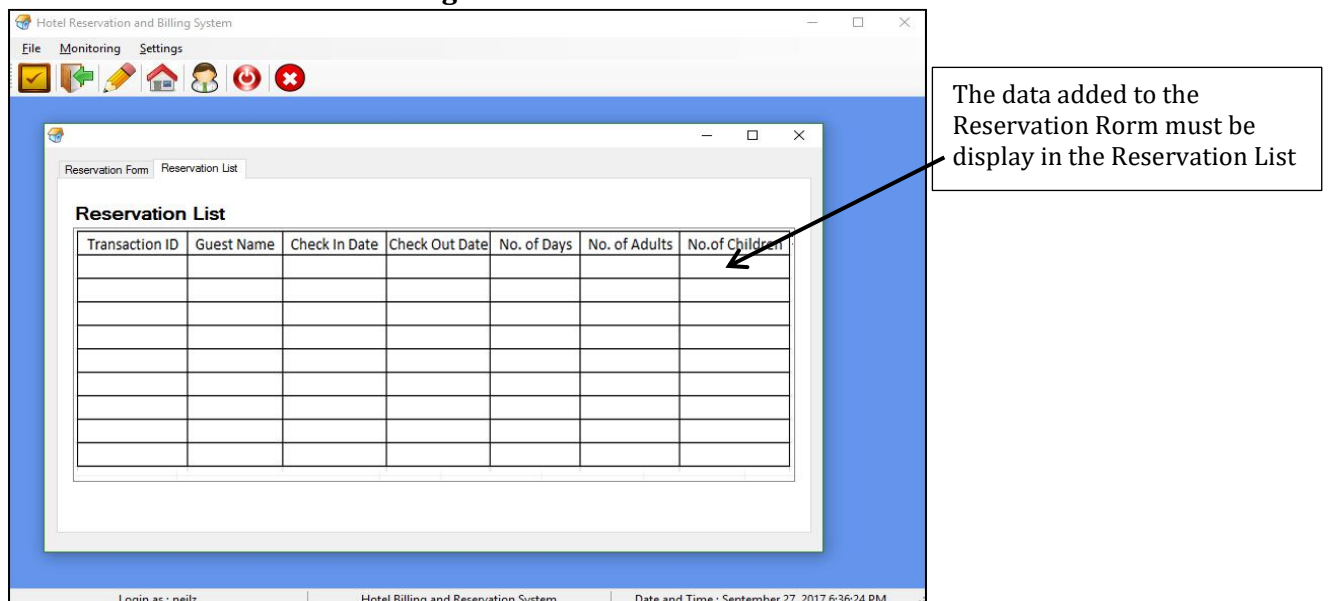
An alert message will appear that is similar to the image above (with title, icon and button) if all the textboxes are filled and submit.

NOTE:

The data inputted of the Reservation Form must be inserted into the table of your database.

Create a DataGridView similar to **Image#7**.

Image#7



The data added to the Reservation Form must be display in the Reservation List

Create another form (Room Form) similar to **Image#8**. If you click the room button a dialog box will appear.

Image#8

The screenshot shows the 'Hotel Reservation and Billing System' window. A 'Room' dialog box is open, displaying a 'New Room' form with fields for Room Number, Room Type, Room Rate, and Number of Occupancy. Below these fields are 'Save' and 'Clear' buttons. To the right, a 'Cancel' dialog box asks 'Cancel Transaction?' with 'Yes' and 'No' buttons. Below that, a 'Note' dialog box says 'Please Fill All Fields' with an 'OK' button. Another 'Note' dialog box says 'Room Added!' with an 'OK' button. Arrows indicate the flow from the Room Form to these alert messages.

An alert message will appear that is similar to the image above (*with title, icon and button*) if you try to close the room form.

The clear button will remove the inputted text in all the textboxes

An alert message will appear that is similar to the image above (*with title, icon and button*) if there is no text inputted in the textboxes once it is save

An alert message will appear that is similar to the image above (*with title, icon and button*) if all the textboxes are filled and save.

NOTE:

The data inputted to the Room Form must be inserted into the table of your database.

Create a DataGridView similar to **Image#9**.

Image#9

The screenshot shows the 'Hotel Reservation and Billing System' window. A 'Room' dialog box is open, displaying a 'Room List' table. The table has columns for Room ID, Room Number, Room Type, Room Rate, and No. of Occupancy. An arrow points from the 'Room List' table to the text box on the right.

The data added to the New Room Form must be display in the Room List

Create another form (Guest Form) similar to **Image#10**. If you click the room button a dialog box will appear.

Image#8

The screenshot shows the 'Hotel Reservation and Billing System' window. Inside, there's a 'Guest' window with tabs for 'New Guest' and 'Guest List'. The 'New Guest' tab is active, displaying a 'New Guest Form' with fields for First Name, Last Name, Middle Name, Address, and Contact Number. Below the form are 'Save' and 'Clear' buttons. Three arrows point from these buttons to separate dialog boxes: 1. An arrow from the 'Save' button points to a 'Note' dialog box with an information icon and the text 'Please Fill All Fields' and an 'OK' button. 2. An arrow from the 'Clear' button points to a 'Note' dialog box with an information icon and the text 'Guest Added!' and an 'OK' button. 3. An arrow from the 'Cancel' button (located at the top right of the 'Guest' window) points to a 'Cancel' dialog box with a question mark icon and the text 'Cancel Transaction?' with 'Yes' and 'No' buttons.

An alert message will appear that is similar to the image above (*with title, icon and button*) if you try to close the guest form.

The clear button will remove the inputted text in all the textboxes

An alert message will appear that is similar to the image above (*with title, icon and button*) if there is no text inputted in the textboxes once it is save

An alert message will appear that is similar to the image above (*with title, icon and button*) if all the textboxes are filled and save.

NOTE:

The data inputted to the Guest Form must be inserted into the table of your database.

Create a DataGridView similar to **Image#11**.

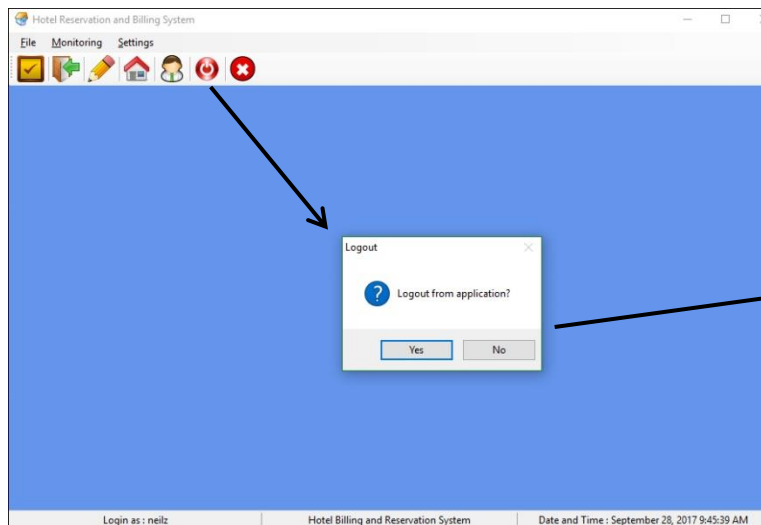
Image#11

The screenshot shows the 'Hotel Reservation and Billing System' window. Inside, there's a 'Guest' window with tabs for 'New Guest' and 'Guest List'. The 'Guest List' tab is active, displaying a 'Guest List' DataGridView. The table has columns for GID, First Name, Last Name, Middle Name, Address, and Contact Number. The table is currently empty.

The data added to the New Guest Form must be display in the Guest List

If you click the logout button an alert message will appear similar to **Image#12**.

Image#12



An alert message will appear that is similar to the image (*with title, icon and button*)

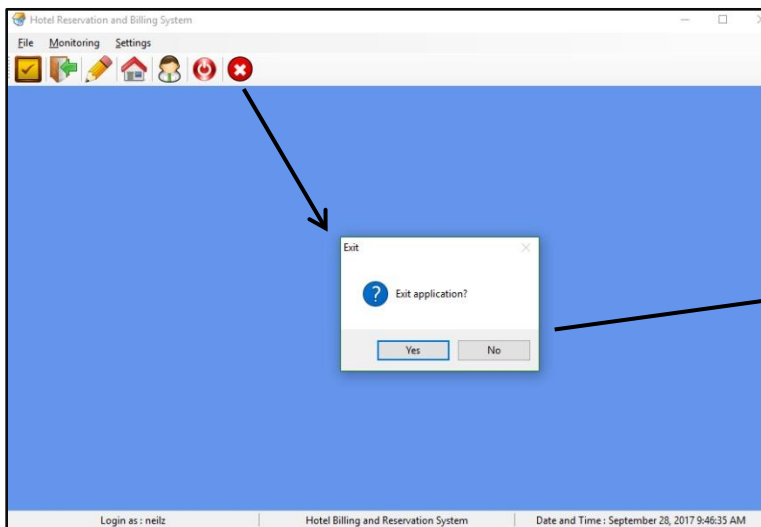
Choices:

YES – it will logout and proceed to the Login Page

NO – remain in the current page.

If you click the exit button an alert message will appear similar to **Image#13**.

Image#13



An alert message will appear that is similar to the image (*with title, icon and button*)

Choices:

YES – it will close the application or system

NO – remain in the current page.