

Project Title:
Online Booking in a Restaurant

Submitted to:
Mr. Syed Ameer Ahmed

Prepared By:
Reg # 014, 120, 125, 141, 144

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Project Description

Idea:

In proposed ordering system we provide facility to customers to reserve tables for breakfast, lunch, and for dinner, and can also get details of hall availability for reservation of party and celebrations. At the same time this online reservation system will provide the restaurant owner to manage their services including food. This document includes detailed information about requirements of project. It reflects identified constraints and purposed software functionalities.

It is an arrangement made in advance to have a table available at a restaurant. While most restaurants in most of the world do not require a reservation, and some have no policy or simply any channel for making one, so-called higher-end restaurants mainly in overcrowded cities often require a reservation, and some may have tables booked for weeks in advance. At particularly exclusive venues, it may be impossible to make a reservation on the same day as the planned visit.

Scope:

The scope of this application includes reserve table for dining online, also get details of hall availability for reservation of party and celebrations. At the same time this online reservation system will provide the restaurant owner to manage their services including food. Currently proposed system will be fast and easy to use and involves the application of five modules which are the reservation, the order takeaway, your order gallery and contact us. This system will manage by two main android applications, first one would be available for general customers for viewing and booking of table and halls. Second would be used by the admin to manage the services with in the restaurant premise.

Features:

Features available to Owner:

The following features are available to owner in online booking of a restaurant:

- Master Panel
- See All the upcoming reservations
- Manage food menu
- Sub admin panel (Restaurant admin panel)
- Restaurant can insert, view, update, delete own information.
- Reporting
- Inventory Management
- Online payment

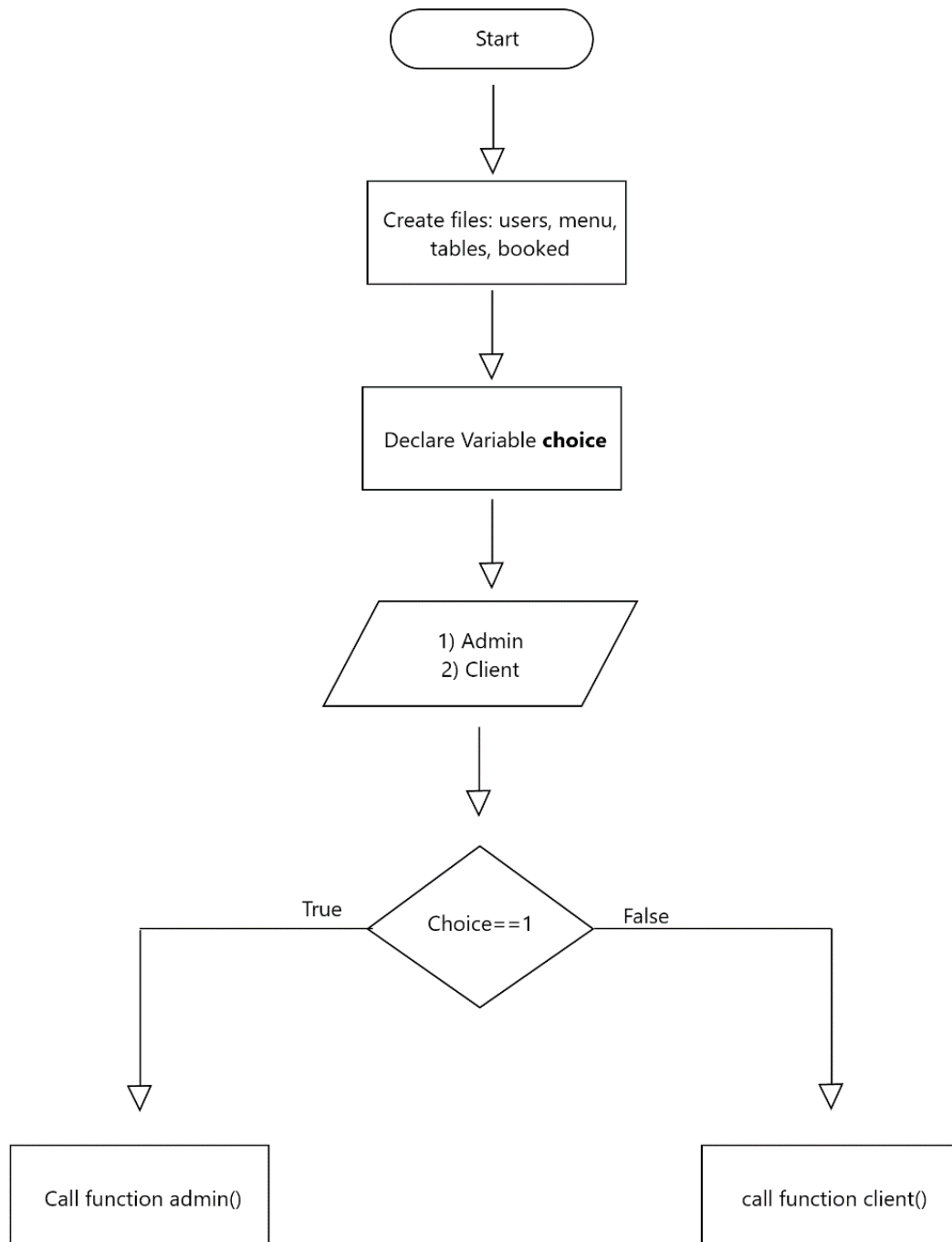
Features available to Customer:

- A client will always benefit from being able to make a table reservation at the restaurant to which he wishes to go.
- A clear benefit of making a table reservation for a client is the security that they will experience when going out to a restaurant. i.e., making a reservation will guarantee the client that he will receive his table at the time and place he has planned. It is an advantage for the customer to know in advance that he will not have to go through the trouble of waiting until a table is available, or being put on a waiting list, or in the worst case, needing to find another place to eat, because the one chosen won't be able to serve him. Another important benefit of making a reservation in the desired restaurant is the better quality of service one will receive. As the restaurant knows at what time and with how many people the customer will arrive, a comfortable table with enough seats and space will be reserved, and the restaurant's staff will be prepared to serve the arriving group.
- User panel (Mobile end) user can view updates, add their requests about reservation.
- Generate Bill
- See pervious Reservations
- Cancel Reservations
- Pay cash or used credit Card (only validator)

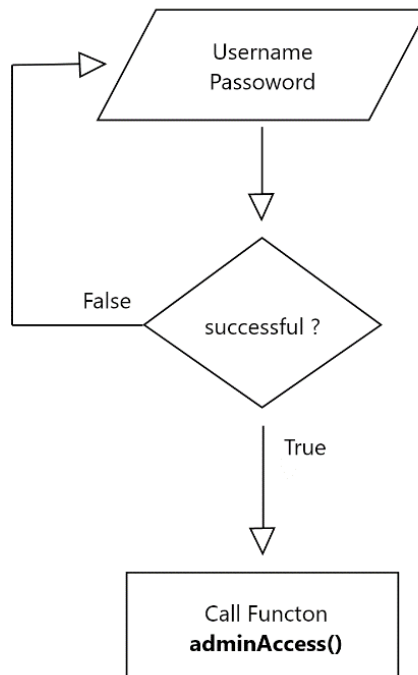
Limitations of This project

- The stored data will not be encrypted
- This could not proceed the transition

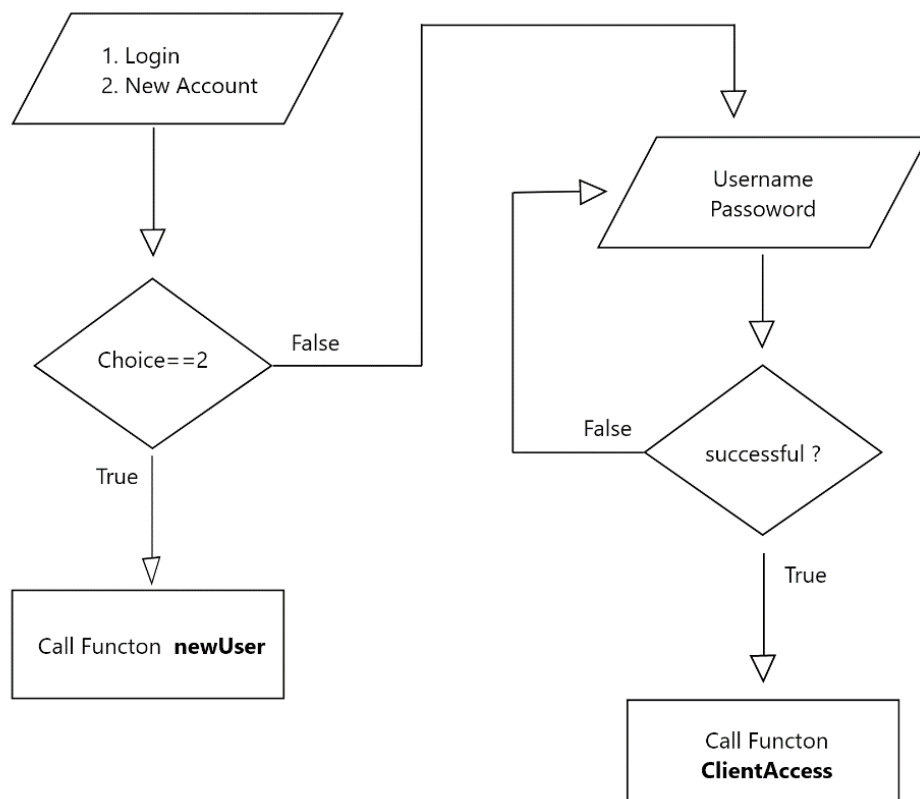
Flow Char for Restaurants Reservations System



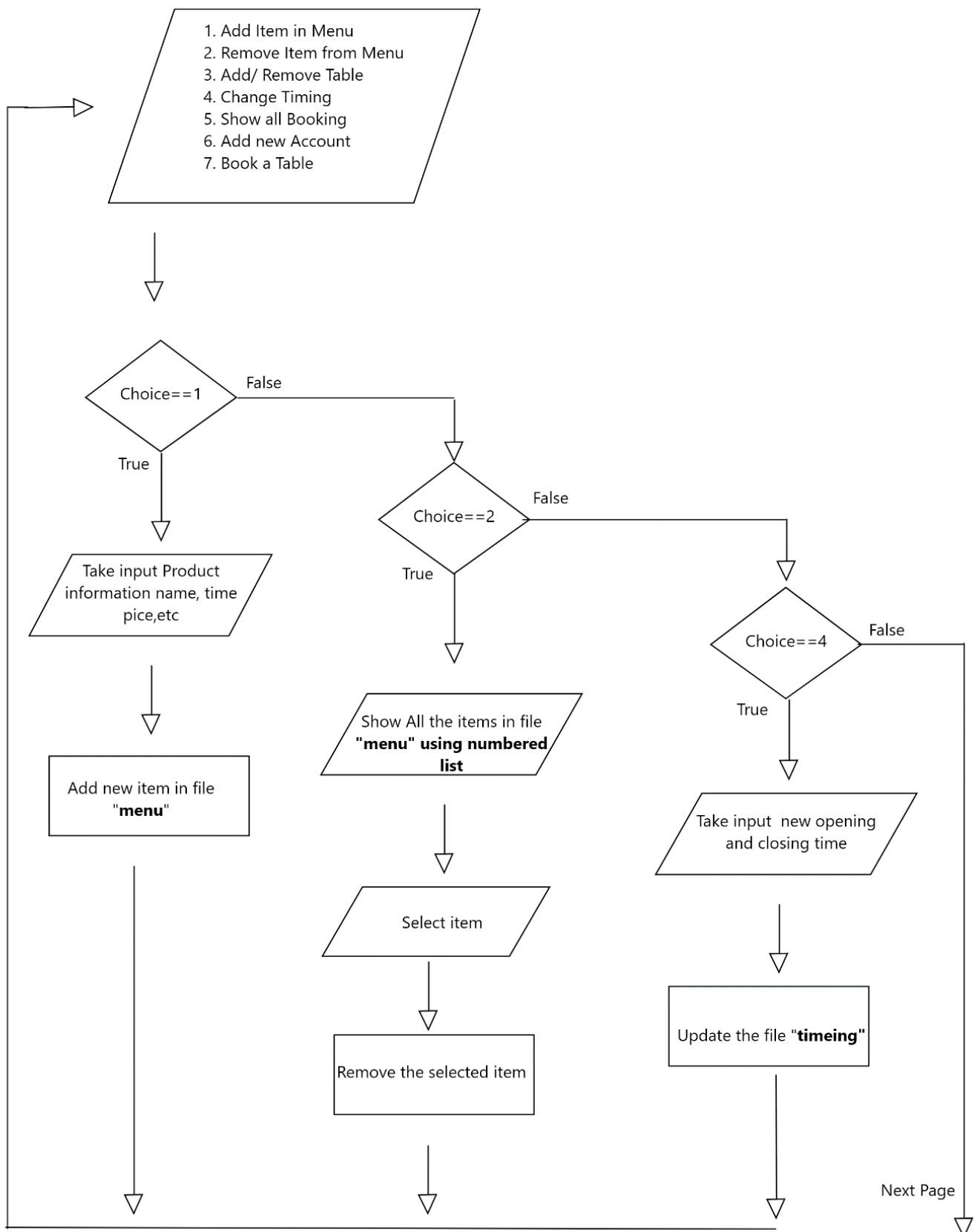
Flow Chart for Function **admin()**



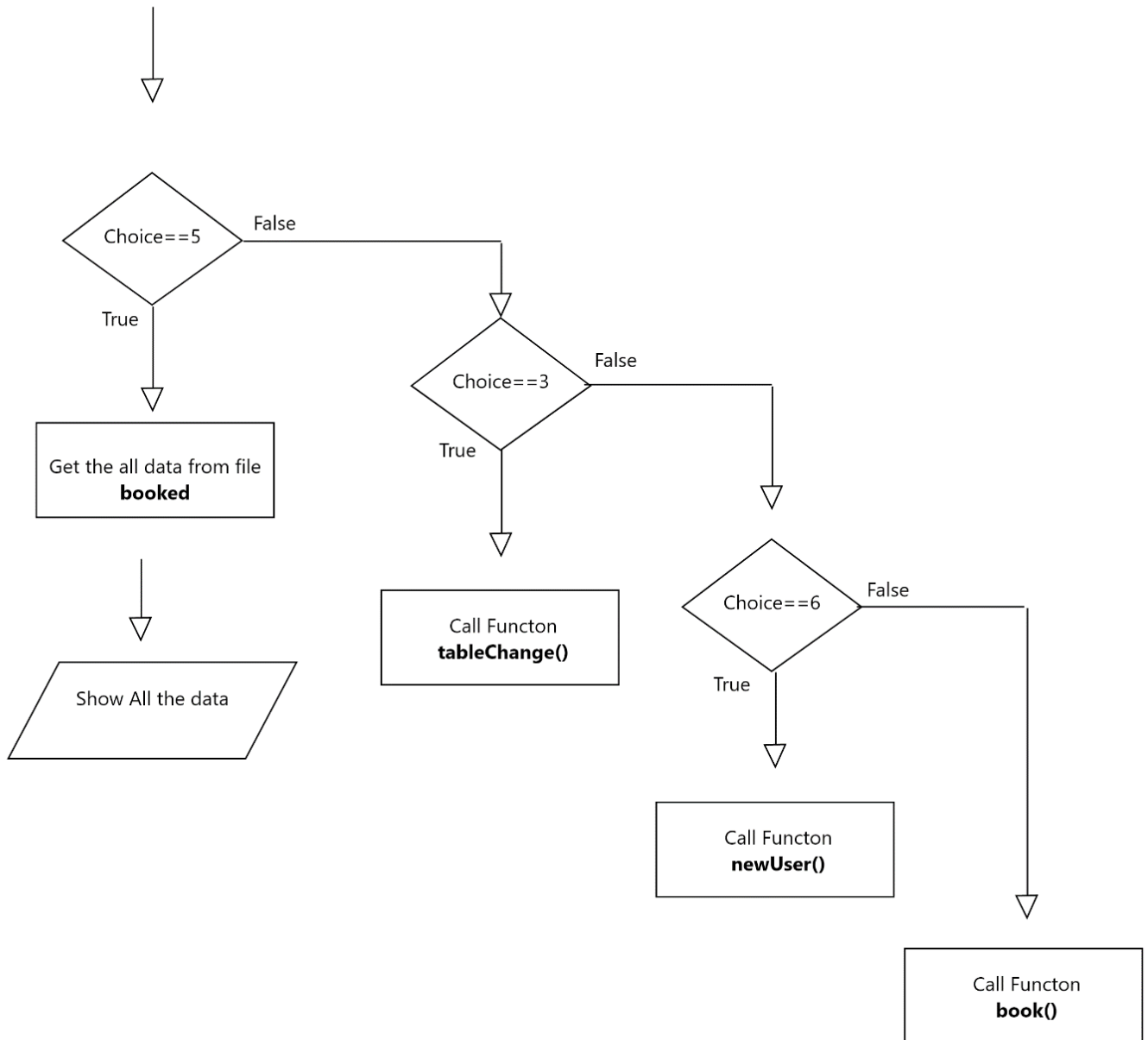
Flow Chart for Function **Client()**



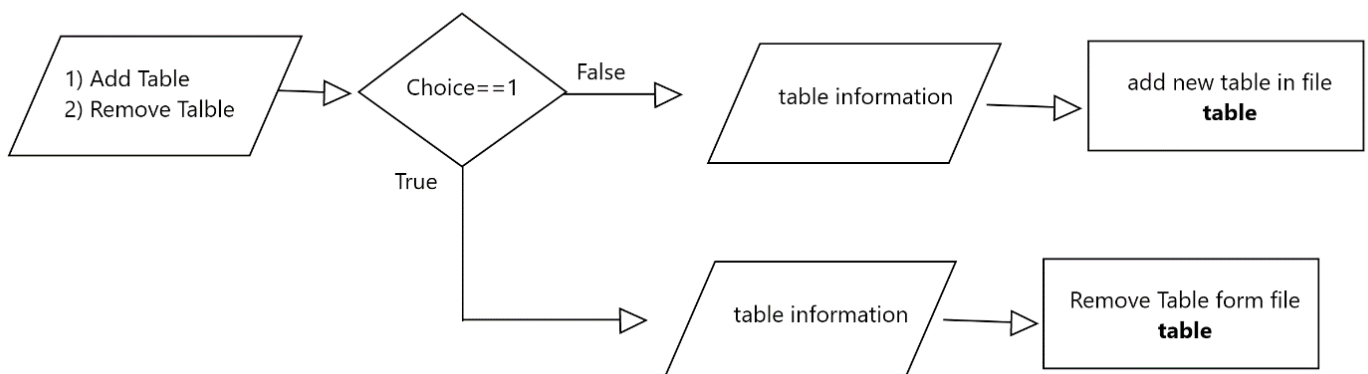
Flow Chart for Function **adminAccess()**



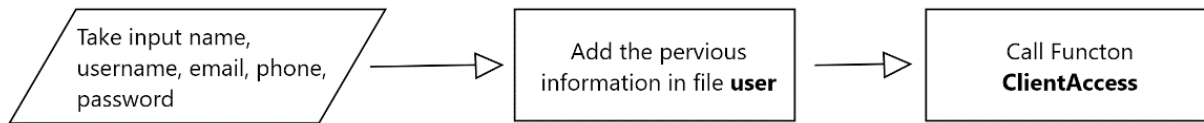
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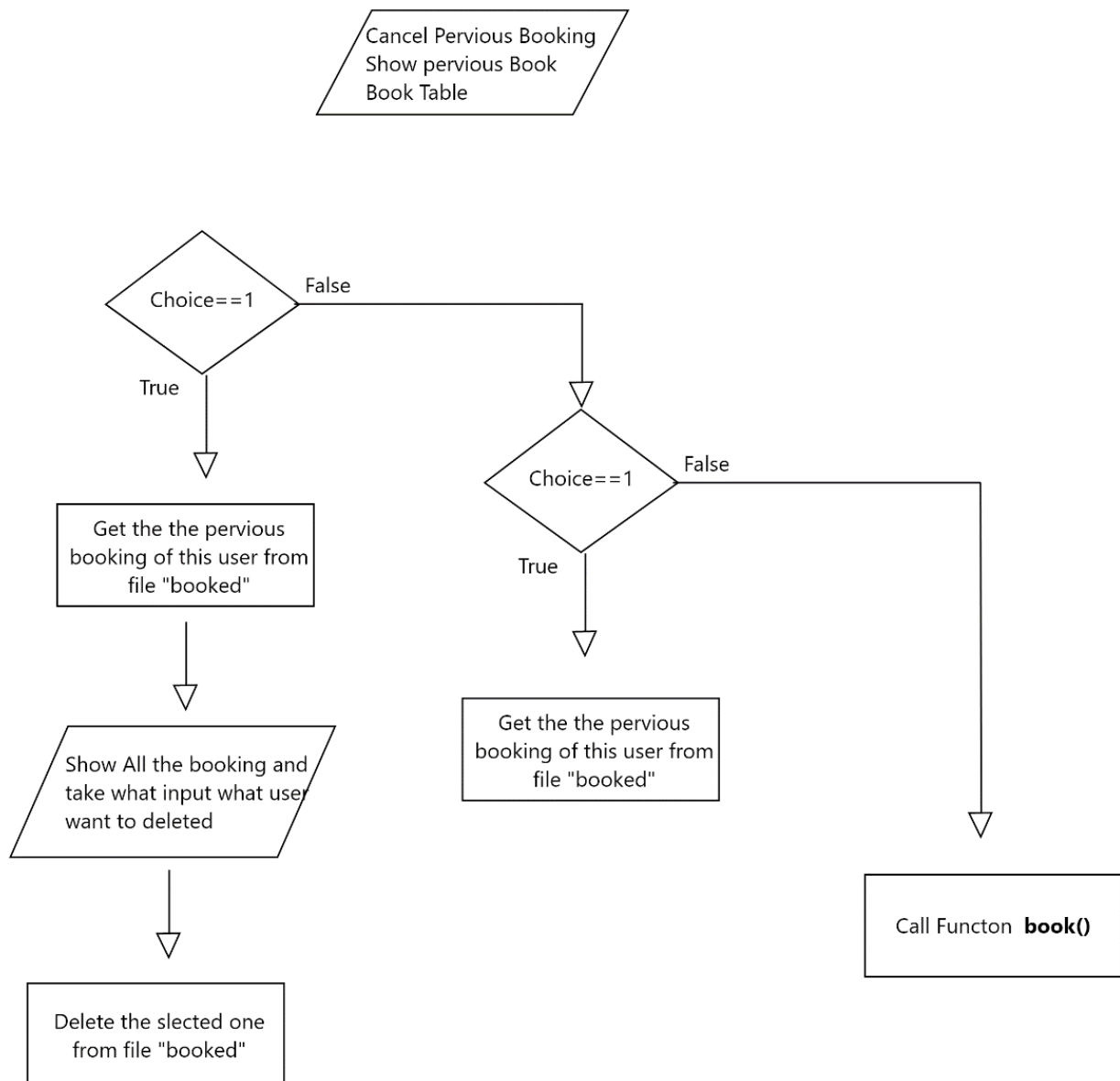
Flow Chart for Function **tableChange()**



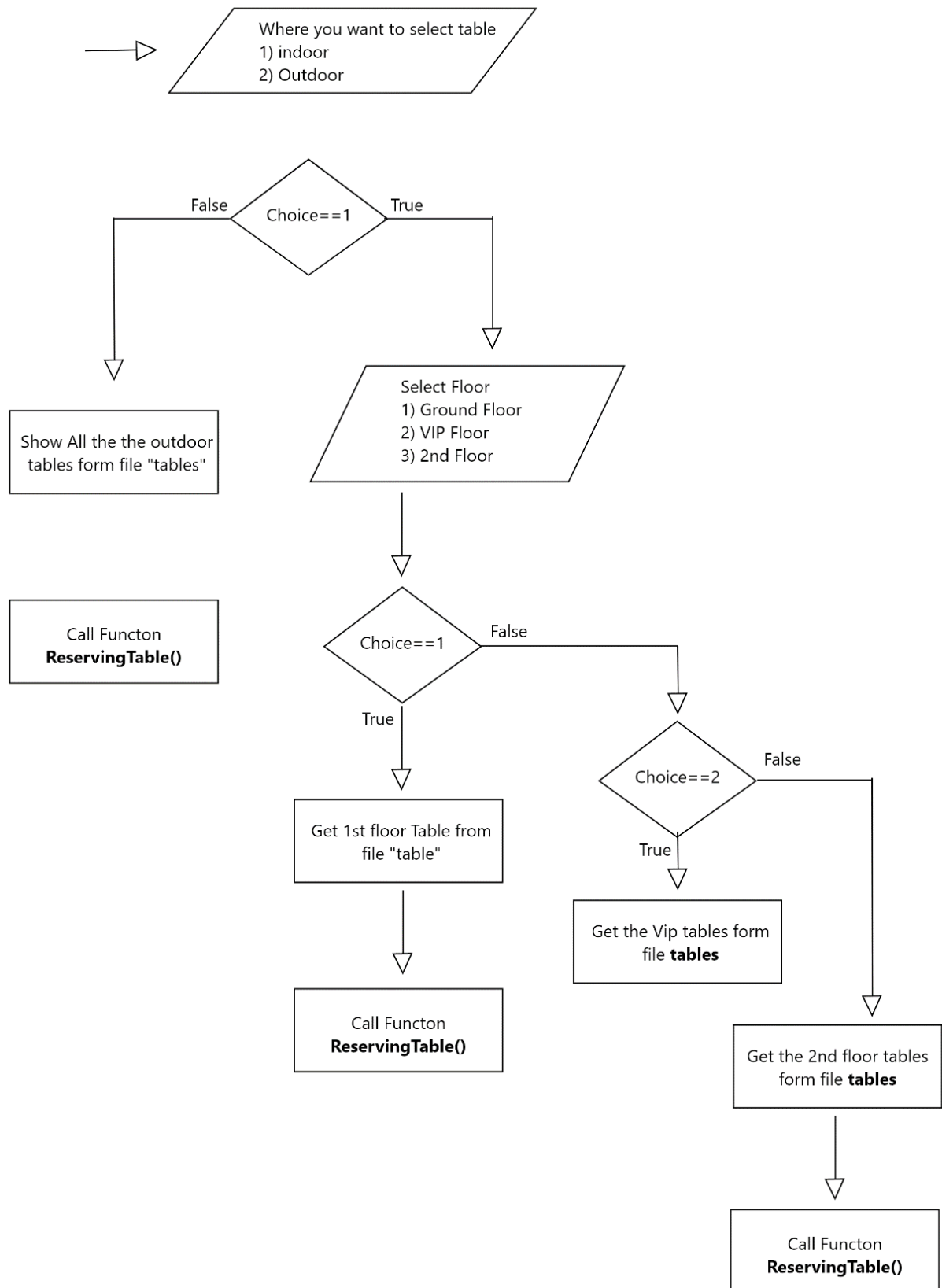
Flow Chart for Function **newUser()**



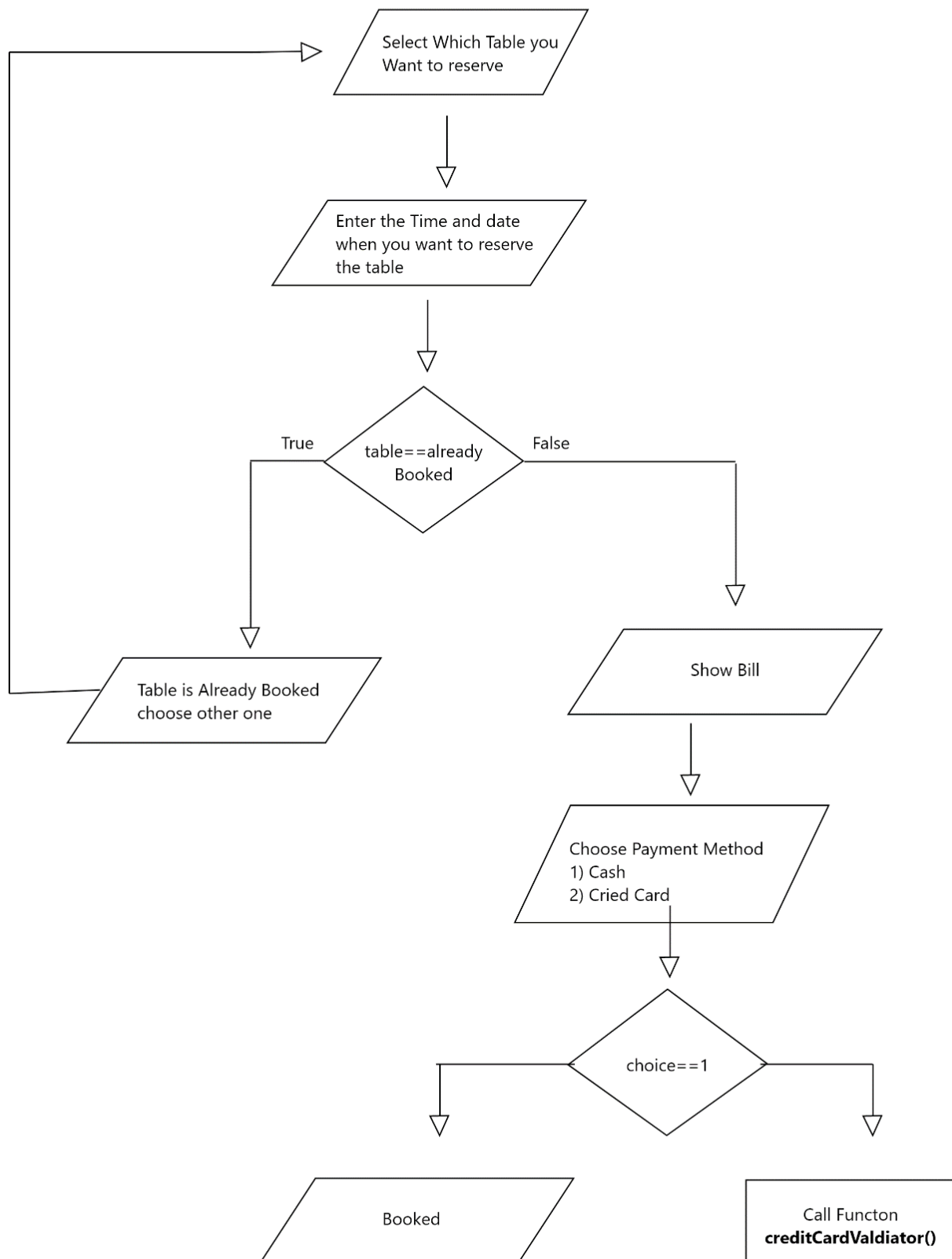
Flow Chart for Function **ClientAccess()**

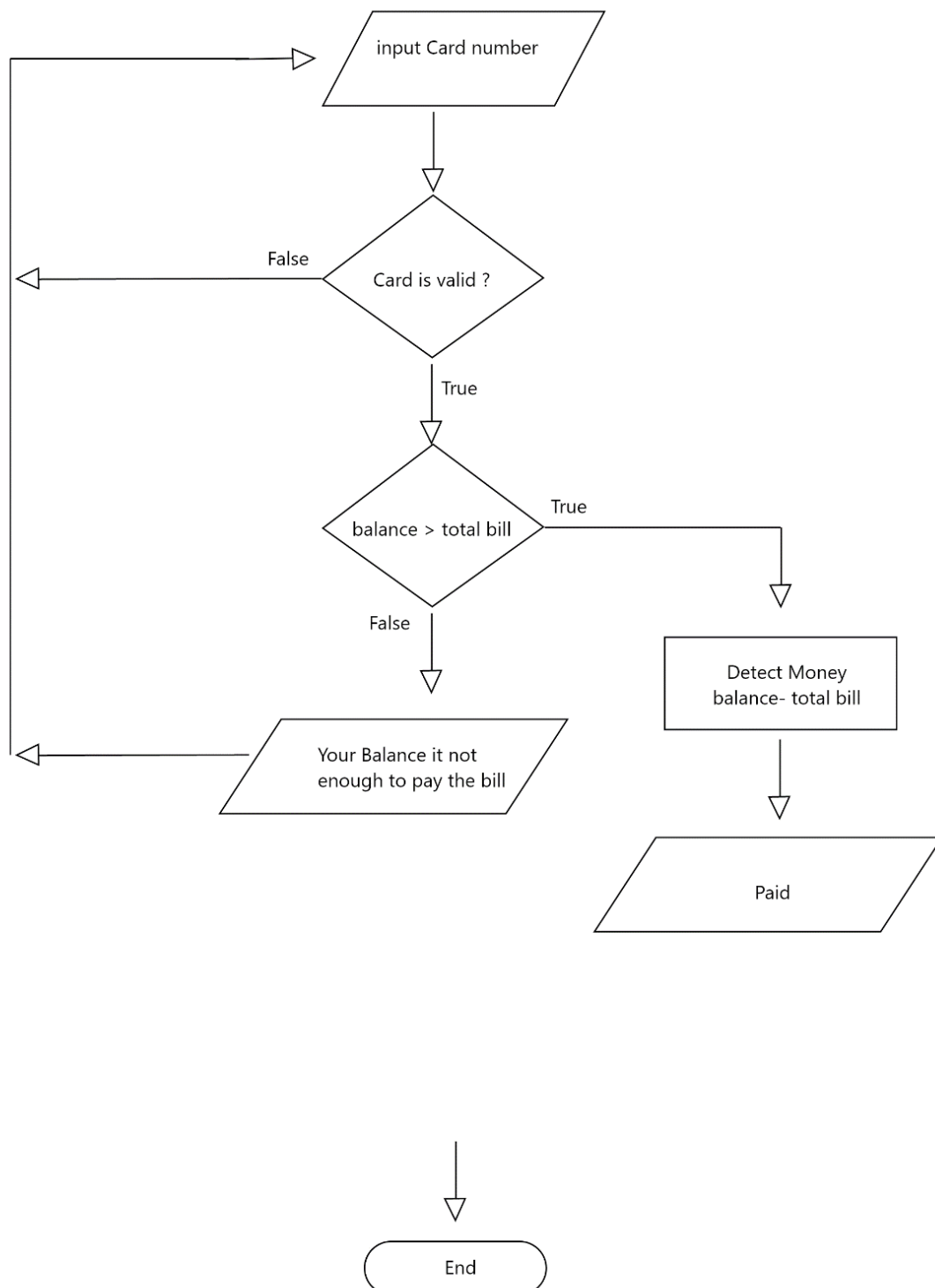


Flow Chart for Function **bookTable()**



Flow Chart for Function **ReservingTable()**



Flow Chart for Function **creditCardValdiator()**

Algorithm for Online Booking in a Restaurant

1. Create a file with name “users” that will be used to hold user data.
2. Declare variable **role**
3. Print: 1. Admin
 2. Client
4. Get choice in variable “**role**”;
5. If role == 1 then
 Call Function **admin()**
6. Else
 Call function **client()**;

Algorithm for admin ()

Take input: password, username;

Match the Password and username with user’s file

If the password & username is Correct then

Call the function **AdminAccess ()**;

Else

We will again take the username and password. i.e admin();

Algorithm for AdminAccess ()

Variable choice

PRINT: 1. Enter a New Item in Menu
 2. Remove item form Menu
 3. Change Opening and Closing Timing.
 4. View All the Book Tables
 5. Book A Table
 6. Add a New User

If choice ==1 then call then

Add a new item in file **menu**

If choice == 2

Show all the items that are in file “menu” with numbered list take user choice and delete the selected item.

If choice == 3

Take input new opening and closing timing

Open file “timing” and make changes in opening and closing time.

If choice == 4 then

Show all the booked tables with details

If choice == 5 then

Call the function **book ()**

If choice == 6

Call the function **newUser();**

Algorithm for newUser ()

Take input name, username, email, and phone

Open file “user” add a new user with above given information

Algorithm for client ()

Print 1. Login

2. New account

Variable dec;

If dec== 1 then

Take input: password, username;

Check if the users exist in file “users” then

Match the Password and username with

If the password & username is Correct then

Call the function **book;**

Else

We will again take the username and password. i.e client();

If dec == 2 then

newUser();

Algorithm for function **book ()**

Algorithm for **Reserving_a_Table ()**

1. Print "Select which table you want to reserve:"
2. Enter Date and Time when you want to reserve the table.
3. Check if the table is already booked or not by reading data in reserved_tables.txt file using instream class.
4. If table == already booked
5. Print "This Table is already booked. Choose another one please."
6. else if table != already booked
7. Print "This table is booked for you. Thank you."
8. Add the table number to reserved_tables.txt file by using ofstream class to keep the record of reserved tables.

Algorithm for **Selecting Place of Table**

1. Create a Total_number_of_tables.txt file where we can store total number of tables.
2. Store the data in the file using ofstream class.
3. Create reserved_tables.txt file where we can store the record of reserved tables.
4. Print "Where you want to reserve the table:"
5. Press 1 for reserving outdoor.
6. Press 2 for reserving indoor.
7. If keypress == 1
 - Show all the tables that are listed in Total_number_of_tables.txt file with variable name Outdoor_tables by accessing the file.

Reserving_a_Table ()

8. Else if keypress == 2

Print "On which floor you would like to reserve the table:"

Press 1 for Ground Floor.

Press 2 for VIP Floor.

Press 3 for 2nd Floor.

If keypress ==1

Show all the tables that are listed in Total_number_of_tables.txt file with variable name Ground_Floor by accessing the file.

Reserving_a_Table ()

else if keypress == 2

Show all the tables that are listed in Total_number_of_tables.txt file with variable name VIP_Floor by accessing the file.

Reserving_a_Table ()

else if keypress == 3

Show all the tables that are listed in Total_number_of_tables.txt file with variable name 2nd_Floor by accessing the file.

Reserving_a_Table ()

9. Create a menu.txt file where we can store the schedule and menu.
10. Display the menu to customer by using instream class.

Thank You

Have A Nice Day!