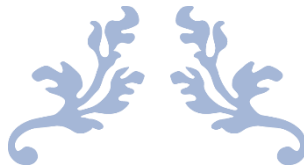




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# TRAVEL AGENCY MANAGEMENT SYSTEM

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## Presenter

**Name: Farhan Muhib Efty**

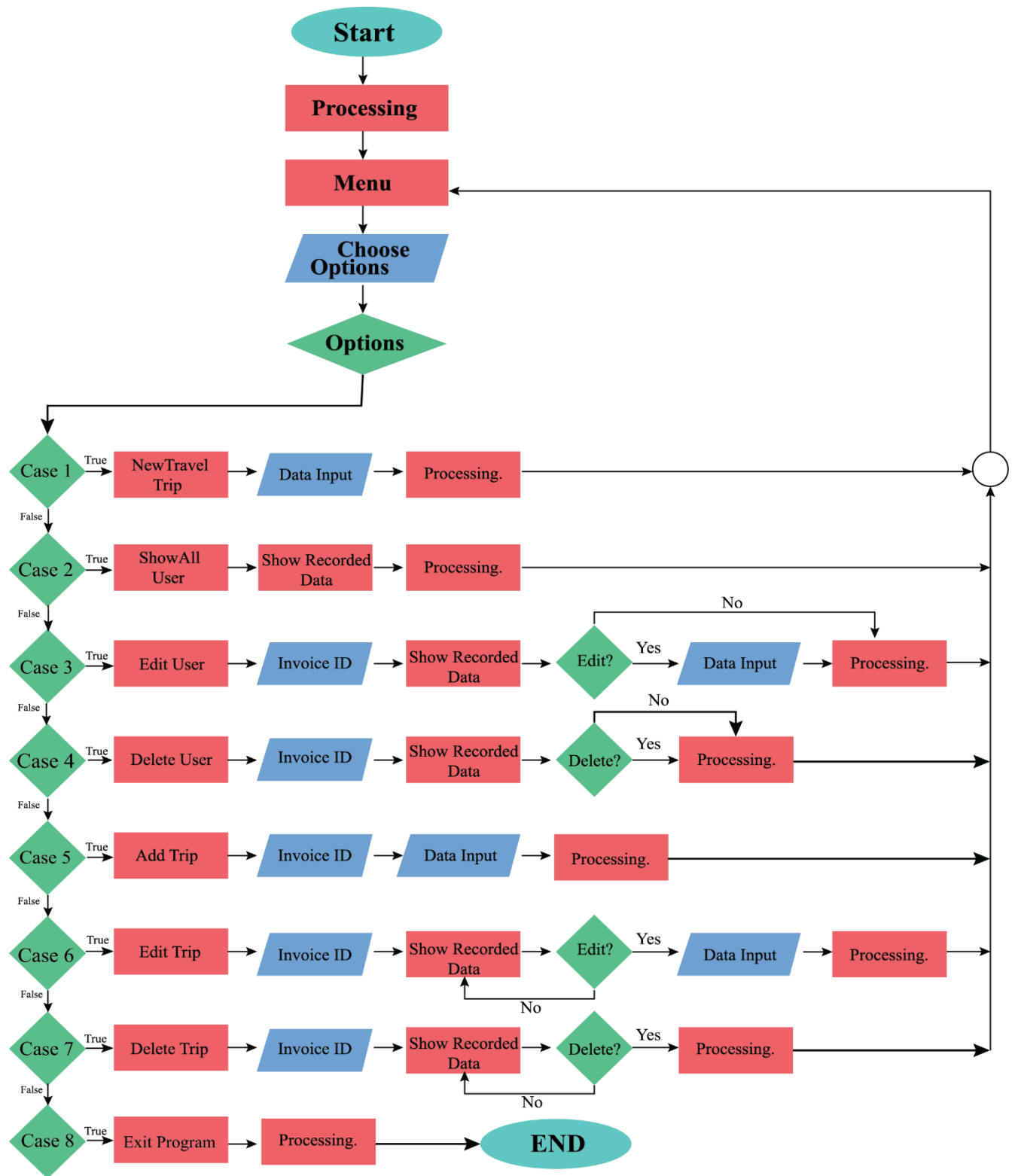
**ID: 190105022**

**Lab Group: A1**

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**Introduction:** This project aims to create a C++ "Travel Agency Management System" program. Where I have to generate MENU options. This MENU option includes two classes named New Travel Trip and Show All User, two functions Edit User & Delete User under New Travel Trip, & three more functions Add Trip, Edit Trip & Delete Trip under the class of Show All User. But I have added a new MENU option called Exit Program to terminate the program.

**Flow Chart:** The flow chart of the program given below-



### **The Final Code:**

//Project: Travel Agency Management System

//Name: Farhan Muhib Efty

//ID: 190105022, Lab Group: A1, Year: 2, Semester: 1.

```
#include<iostream>
```

```
#include<vector>
```

```
#include<conio.h>
```

```
#include<cstdlib>
```

```
using namespace std;
```

```
class NewTravelTrip          //Create a Class named NewTravelTrip
```

```
{
```

```
public:                      //Access specifier.
```

```
    NewTravelTrip();         //Default Constructor. Constructor is a type of Function.
```

```
    NewTravelTrip(int m)     //Parameterized Constructor.
```

```
{
```

```
}
```

```
void AddTrip();              //This Function is Add data to the previous recorded user.
```

```
string name;
```

```
string date;
```

```
string address;
```

```

string phoneno;
int invoice;
string email;
vector<string>tripdate;    //Format: vector<dataType>nameOfVector.
void EditTrip();          //This Function is Edit the Previous recorded Trip
void DeleteTrip();        //This Function is Delete the Previous recorded Trip
vector<string>startlocation;
vector<string>finaldestination;

};

class ShowAllUser          //Create a Class named ShowAllUser.
{
public:
    void showUser();        //This Function is show the previous recorded user data.
    int invoice;
    string name;
    string date;
    string address;
    string phoneno;
    string email;
    string tripdate;
    string triplocation;

    void DeleteUser();      //This Function is delete the previous recorded user data.

```

```
void EditUser();           //This Function is Edit the previous recorded user data.
```

```
};
```

```
vector<NewTravelTrip>trips;    //Create a Global Vector.
```

```
int inv;
```

```
int main()
```

```
{
```

```
    int choice;
```

```
    inv = 1;
```

```
    while(1)
```

```
    {
```

```
        cout << "===== " << endl;
```

```
        cout << "\tPlease choose your option between (1 to 7):" << endl;
```

```
        cout << "===== " << endl;
```

```
        cout << endl;
```

```
        cout << "\t1. New Travel Trip. " << endl;
```

```
        cout << "\t2. Show All Users. " << endl;
```

```
        cout << "\t3. Edit user. " << endl;
```

```
        cout << "\t4. Delete user. " << endl;
```

```
        cout << "\t5. Add Trip. " << endl;
```

```

cout << "\t6. Edit Trip. "<<endl;
cout << "\t7. Delete Trip. "<<endl;
cout << "\t8. Exit Program. "<<endl;
cout << endl;
cout << "\tEnter Your Choice: ";
cin >> choice;
switch(choice)
{
case 1:
{
    cout << endl;
    cout << "\t\tYou have chosen option 1."<<endl;
    cout << endl;
    NewTravelTrip ad;    //Create an object of NewTravelTrip.

    trips.push_back(ad);
    cout << endl;
    cout << "\t\tYour Data is Recorded. "<<endl;
    cout << "\tPress any key to go Back to the main menu... "<<endl;
    cout << endl;

```

```

        getch();          //The function hold the output screen for sometime.
        break;
    }
    case 2:
    {
        cout << endl;
        "=====
        =====>< endl;

        cout << "\t\tYou have chosen option 2."<<endl;
        cout << "\t\tYour Previously recorded Data is showing Below." << endl;

        cout << endl;
        "=====
        =====>< endl;

        ShowAllUser show; //Create an object of show.
        show.showUser(); //Function Calling.

        cout << endl;
        "=====
        =====>< endl;

        cout << "\t\tPress any key to go to the main menu..."<<endl;

        cout << endl;
        "=====
        =====>< endl;

        getch();
        break;
    }
    case 3:
    {

```



```

        cout << endl;
        "=====
=====
===== " << endl;

        cout << "\t\tYou have chosen option 3."<<endl;

        cout << endl;
        "=====
=====
===== " << endl;

        ShowAllUser edit;
        edit.EditUser();

        cout << endl;
        "=====
=====
===== " << endl;

        cout << "\t\tYour Data is Edited. " <<endl;
        cout << "\tPress any key to go Back to the main menu... " <<endl;

        cout << endl;
        "=====
=====
===== " << endl;

        getch();
        break;
    }
    case 4:
    {
        cout << endl;
        "=====
=====
===== " << endl;

        cout << "\t\tYou have chosen option 4."<<endl;

        cout << endl;
        "=====
=====
===== " << endl;

```

```

        ShowAllUser del;
        del.DeleteUser();

        cout <<
"=====
===== " << endl;

        cout << "\t\tYour Data is Deleted. " << endl;
        cout << "\tPress any key to go Back to the main menu... " << endl;

        cout <<
"=====
===== " << endl;

        getch();
        break;
    }
    case 5:
    {
        cout <<
"=====
===== " << endl;

        cout << "\t\tYou have chosen option 5." << endl;

        cout <<
"=====
===== " << endl;

        NewTravelTrip tp(0);
        tp.AddTrip();

        cout <<
"=====
===== " << endl;

        cout << "\t\tYour Trip is Added. " << endl;
        cout << "\tPress any key to go Back to the main menu... " << endl;

```

```

        cout <<
"=====
===== " << endl;

        getch();
        break;
    }
    case 6:
    {
        cout <<
"=====
===== " << endl;

        cout << "\t\tYou have chosen option 6."<<endl;

        cout <<
"=====
===== " << endl;

        NewTravelTrip tp(0);
        tp.EditTrip();

        cout <<
"=====
===== " << endl;

        cout << "\t\tYour Trip is Edited. " <<endl;
        cout << "\tPress any key to go Back to the main menu... " <<endl;

        cout <<
"=====
===== " << endl;

        getch();
        break;
    }
    case 7:

```

```

    {
        cout << "=====
===== " << endl;

        cout << "\t\tYou have chosen option 7." << endl;

        cout << "=====
===== " << endl;

        NewTravelTrip tp(0);
        tp.DeleteTrip();

        cout << "=====
===== " << endl;

        cout << "\t\tYour Trip is Deleted. " << endl;
        cout << "\t\tPress any key to go Back to the main menu... " << endl;

        cout << "=====
===== " << endl;

        getch();
        break;
    }

case 8:
    {
        cout << "=====
===== " << endl;

        cout << "\t\tPress Any key. " << endl;
        cout << "\t\tIf you Want to Exit the Program..." << endl;

```

```

        cout <<
"=====
===== " << endl;

        exit(0);
        break;
    }
    default:
    {
        cout <<
"=====
===== " << endl;

        cout << "\tSorry! Incorrect Option. Press any key to go to the main menu... "
<< endl;

        cout <<
"=====
===== " << endl;

        getch();
        break;
    }
}

return 0;
}

```

```

NewTravelTrip::NewTravelTrip()      // Default constructor called automatically.
{
    string t_date, s_loc, f_des;
    invoice = inv;

    cout << "\n      Invoice ID: " << invoice ; //Auto Generated Invoice ID.
    getline(cin,date);                      //getline string for get the full line.
    cout << "\n      Enter Date: " ;
    getline(cin,date);
    cout << "\n      Enter User Name: " ;
    getline(cin, name);
    cout << "\n      Enter User Address: " ;
    getline(cin, address);
    cout << "\n      Enter User Phone No.: " ;
    cin >> phoneno;
    cout << "\nEnter User Email Address: " ;
    cin >> email;
    cout << "\n      Enter Trip Date: " ;
    cin >> t_date;
    cout << "\n      Enter Trip Location \n" ;
    cout << "\n      ----- " << endl;
    getline(cin, s_loc);
    cout << "\n      Start Location: ";
    getline(cin, s_loc);

```

```

cout << "\n    Final Destination: ";
getline(cin, f_des);

//Adds a new element at the end of the vector.
tripdate.push_back(t_date);
startlocation.push_back(s_loc);
finaldestination.push_back(f_des);
inv++;          //++Invoice ID.
}

void ShowAllUser::showUser()
{
    int sz, i, j;
    sz = trips.size();    //Vector.size()Returns the number of elements in the vector.
    for(i = 0; i < sz; i++)
    {

        cout << "\n        Invoice ID: " << trips[i].invoice << endl ;
        cout << "\n        Date: " << trips[i].date << endl;
        cout << "\n        User Name: " << trips[i].name << endl;
        cout << "\n        User Address: " << trips[i].address << endl;
        cout << "\n        User Phone No: " << trips[i].phoneno << endl;
        cout << "\n        User Email Address: " << trips[i].email << endl;
    }
}

```

```

        for(j = 0; j < trips[i].tripdate.size(); j++)
        {
            cout << "\n          Trip Date: " << trips[i].tripdate[j]<<endl;
            cout << "\n          Trip Location: " << endl;
            cout << "\n          ----- " << endl;
            cout << "\n          Start Location: " << trips[i].startlocation[j] << endl;
            cout << "\n          Final Destination: " << trips[i].finaldestination[j] << endl <<
endl;
        }
        cout << endl << endl;
    }
}

```

```

void ShowAllUser::EditUser()          //The Edit User Function.
{
    int invc_id, i, j;
    string t_date, s_loc, f_des;
    cout<< "\n          Enter Invoice ID: ";
    cin>>invc_id;

    //To Find the User input Invoice ID.
    for(i = 0; i < trips.size(); i++)
    {
        if(trips[i].invoice == invc_id)

```



```

        j = i;
    }
    getline(cin, trips[j].date);
    cout << "\n        Enter New Date: " ;
    getline(cin, trips[j].date);
    cout << "\n        Enter New User Name: " ;
    getline(cin, trips[j].name);
    cout << "\n        Enter New User Address: " ;
    getline(cin, trips[j].address);
    cout << "\n        Enter New User Phone No: " ;
    cin >> trips[j].phoneno;
    cout << "\n Enter User New Email Address: " ;
    cin >> trips[j].email;

```

trips[j].tripdate.clear();     //It is used to remove all the elements of the vector container

```

trips[j].finaldestination.clear();
trips[j].startlocation.clear();

getline(cin, t_date);
cout << "\n        Enter New Trip Date: " ;
getline(cin, t_date);
cout << "\n        Enter New Trip Location: \n" ;
cout << "\n        ----- " << endl;
cout << "\n        New Start Location: ";
getline(cin, s_loc);

```

```

cout << "\n    New Final Destination: ";
getline(cin, f_des);

//Adds a new element at the end of the vector.
trips[j].tripdate.push_back(t_date);
trips[j].startlocation.push_back(s_loc);
trips[j].finaldestination.push_back(f_des);
}

void ShowAllUser::DeleteUser()    //The Delete User Function.
{
    int invc_id, i, j;
    string t_date, s_loc, f_des;
    cout << "\n    Enter Invoice ID: ";
    cin >> invc_id;

    //To Find the User input Invoice ID.
    for(i = 0; i < trips.size(); i++)
    {
        if(trips[i].invoice == invc_id)
            j = i;
    }
}

```

```

vector<NewTravelTrip>::iterator it; //iterator is use like pointer.
it = trips.begin();           //Reads Vector from the first element
for(i = 0; i < j; i++)
    it++;
trips.erase(it);              // It is used to remove elements from a container
                               //from the specified position or range.
}

void NewTravelTrip::AddTrip() //This Function Add data to the Previous record.
{
    int invc_id, i, j;
    cout << "\n    Enter Invoice ID: ";
    cin >> invc_id;

    //To Find the User input Invoice ID.
    for(i = 0; i < trips.size(); i++)
    {
        if(trips[i].invoice == invc_id)
            j = i;
    }
    string t_date, s_loc, f_des;
    cout << "\n    Enter Trip Date: " ;
    cin >> t_date;

```

```

cout << "\n    Enter Trip Location: \n" ;
cout << "\n    ----- " << endl;
getline(cin, s_loc);
cout << "\n        Start Location: ";
getline(cin, s_loc);
cout << "\n        Final Destination: ";
getline(cin, f_des);

//Adds a new element at the end of the vector.
trips[j].tripdate.push_back(t_date);
trips[j].startlocation.push_back(s_loc);
trips[j].finaldestination.push_back(f_des);
}

void NewTravelTrip::EditTrip() //This Function is Edit the Previous recorded Trip
{
    int invc_id, i, j, x;
    cout << "\n        Enter Invoice ID: ";
    cin >> invc_id;

    //To Find the User input Invoice ID.
    for(i = 0; i < trips.size(); i++) //size() Returns the number of elements in the
vector.
    {
        if(trips[i].invoice == invc_id)
            j = i;
    }
}

```

```

    }
    for(x = 0; x < trips[j].tripdate.size(); x++)
    {
        cout << "=====
===== " << endl;

        cout << "Do you want to edit this Trip? Enter 'Y/y' for yes, 'N/n' for no." << endl;

        cout << "=====
===== " << endl;

        cout << "\n      Trip Date: " << trips[j].tripdate[x] << endl;
        cout << "\n      Trip Location: " << endl;
        cout << "\n      ----- " << endl;
        cout << "\n      Start Location: " << trips[j].startlocation[x] << endl;
        cout << "\n      Final Destination: " << trips[j].finaldestination[x] << endl << endl;
        string inp;
        cin >> inp;
        if(inp == "Y" || inp == "y")
        {
            string t_date, s_loc, f_des;
            cout << "\n      Enter Trip Date: " ;
            cin >> t_date;
            cout << "\n      Enter Trip Location: \n" ;
            cout << "\n      ----- " << endl;
            getline(cin, s_loc);
            cout << "\n      Start Location: ";
            getline(cin, s_loc);

```

```

        cout << "\n    Final Destination: ";
        getline(cin, f_des);

        trips[j].tripdate[x] = t_date;
        trips[j].startlocation[x] = s_loc;
        trips[j].finaldestination[x] = f_des;
        break;
    }
}
}

void NewTravelTrip::DeleteTrip() //This Function is Delete the Previous recorded
Trip
{
    int invc_id, i, j, x, y;
    cout << "\n    Enter Invoice ID: ";
    cin >> invc_id;

    //To Find the User input Invoice ID.
    for(i = 0; i < trips.size(); i++)
    {
        if(trips[i].invoice == invc_id)
            j = i;
    }

    for(x = 0; x < trips[j].tripdate.size(); x++)

```

```

{
    cout << "=====
===== " << endl;

    cout << "\nDo you want to delete this Trip? Enter 'Y/y' for yes, 'N/n' for no."
<< endl;

    cout << "=====
===== " << endl;

    cout << "\t    Trip Date: " << trips[j].tripdate[x] << endl;
    cout << "\t    Trip Location: " << endl;
    cout << "\t    ----- " << endl;
    cout << "\t    Start Location: " << trips[j].startlocation[x] << endl;
    cout << "\tFinal Destination: " << trips[j].finaldestination[x] << endl << endl;
    string inp;
    cin >> inp;
    if(inp == "Y" || inp == "y")
    {
        vector<string>::iterator it;    //Iterators are used to point at the memory
addresses

        it = trips[j].tripdate.begin();    //Reads Vector from the first element
        for(y = 0; y < x; y++)
            it++;

        trips[j].tripdate.erase(it);    // It is used to remove elements from a container
//from the specified position or range.

        it = trips[j].startlocation.begin();

```

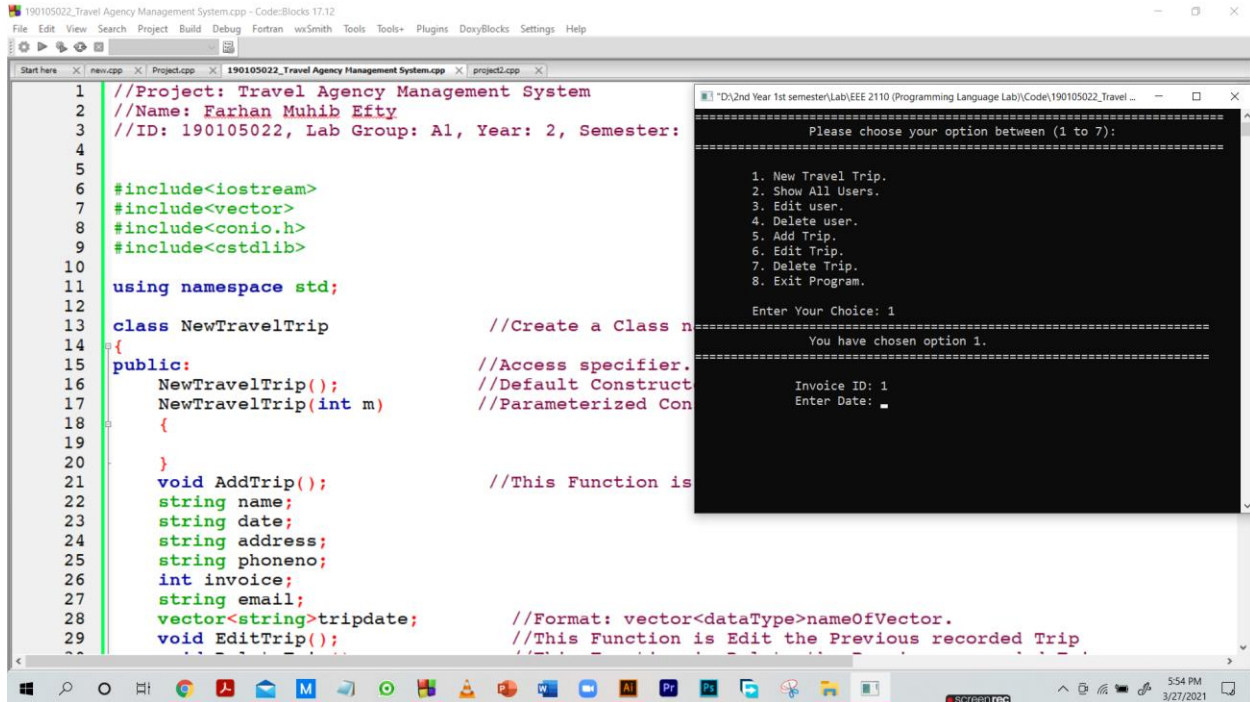
```
    for(y = 0; y < x; y++)
        it++;
    trips[j].startlocation.erase(it);

    it = trips[j].finaldestination.begin();
    for(y = 0; y < x; y++)
        it++;
    trips[j].finaldestination.erase(it);

    break;
}
}
}
```



**Screenshot:** The screenshot of the output of the following problem is given below-



The screenshot displays the Code::Blocks IDE with a C++ project titled "190105022\_Travel Agency Management System.cpp". The source code is visible on the left, and the program's output is shown in a terminal window on the right.

**Source Code (Left Panel):**

```
1 //Project: Travel Agency Management System
2 //Name: Farhan Muhib Efty
3 //ID: 190105022, Lab Group: A1, Year: 2, Semester:
4
5
6 #include<iostream>
7 #include<vector>
8 #include<conio.h>
9 #include<cstdlib>
10
11 using namespace std;
12
13 class NewTravelTrip //Create a Class n
14 {
15 public: //Access specifier.
16     NewTravelTrip(); //Default Construct
17     NewTravelTrip(int m) //Parameterized Con
18     {
19
20     }
21     void AddTrip(); //This Function is
22     string name;
23     string date;
24     string address;
25     string phoneno;
26     int invoice;
27     string email;
28     vector<string>tripdate; //Format: vector<dataType>nameOfVector.
29     void EditTrip(); //This Function is Edit the Previous recorded Trip
```

**Output (Right Panel):**

```
=====
Please choose your option between (1 to 7):
=====
1. New Travel Trip.
2. Show All Users.
3. Edit user.
4. Delete user.
5. Add Trip.
6. Edit Trip.
7. Delete Trip.
8. Exit Program.

Enter Your Choice: 1
=====
You have chosen option 1.
=====

Invoice ID: 1
Enter Date: _
```

The terminal window shows the program's execution flow. It prompts the user to choose an option from 1 to 7. Option 1, "New Travel Trip", is selected. The program then displays "You have chosen option 1." and prompts for an "Invoice ID" (1) and an "Enter Date:".

The screenshot shows a C++ IDE with the following code in the editor:

```
1 //Project: Travel Agency Management System
2 //Name: Farhan Muhib Efty
3 //ID: 190105022, Lab Group: A1, Year: 2, Semester
4
5
6 #include<iostream>
7 #include<vector>
8 #include<conio.h>
9 #include<cstdlib>
10
11 using namespace std;
12
13 class NewTravelTrip //Create a Class
14 {
15 public: //Access specific
16     NewTravelTrip(); //Default Construc
17     NewTravelTrip(int m) //Parameterized C
18     {
19
20     }
21     void AddTrip(); //This Function
22     string name;
23     string date;
24     string address;
25     string phoneno;
26     int invoice;
27     string email;
28     vector<string>tripdate; //Format: vector<dataType>nameOfVector.
29     void EditTrip(); //This Function is Edit the Previous recorded Trip
```

The terminal window displays the following output:

```
You have chosen option 1.
=====
Invoice ID: 1
Enter Date: 27.03.2021

Enter User Name: Farhan Muhib Efty

Enter User Address: Tejgaon, Dhaka.

Enter User Phone No.: 01521561607

Enter User Email Address: fmefty@gmail.com

Enter Trip Date: 31.03.2021

Enter Trip Location
-----
Start Location: Dhaka

Final Destination: Cox's Bazar
=====
Your Data is Recorded.
Press any key to go Back to the main menu...
=====
```

The screenshot shows the same C++ IDE with the same code as above. The terminal window displays the following output:

```
You have chosen option 2.
=====
Your Previously recorded Data is showing Below.
=====
Invoice ID: 1

Date: 27.03.2021

User Name: Farhan Muhib Efty

User Address: Tejgaon, Dhaka.

User Phone No: 01521561607

User Email Address: fmefty@gmail.com

Trip Date: 31.03.2021

Trip Location:
-----
Start Location: Dhaka

Final Destination: Cox's Bazar
=====
```

```

370 void NewTravelTrip::EditTrip() //This Function is Edit the Previous recorded Trip
371 {
372     int invc_id, i, j, x;
373     cout << "\n      Enter Invoice ID: ";
374     cin >> invc_id;
375
376     //To Find the User input Invoice ID.
377     for(i = 0; i < trips.size(); i++) //size()
378     {
379         if(trips[i].invoice == invc_id)
380             j = i;
381     }
382     for(x = 0; x < trips[j].tripdate.size(); x++)
383     {
384         cout << "=====
385         cout << "Do you want to edit this Trip? Enter 'Y/y' for yes, 'N/n' for no.
386         cout << "=====
387         cout << "\n      Trip Date: " << trips[j].tripdate[x] << "\n";
388         cout << "\n      Trip Location: " << trips[j].triplocation[x] << "\n";
389         cout << "\n      Start Location: " << trips[j].startlocation[x] << "\n";
390         cout << "\n      Final Destination: " << trips[j].finaldestination[x] << "\n";
391
392         string inp;
393         cin >> inp;
394         if(inp == "Y" || inp == "y")
395         {
396             string t_date, s_loc, f_des;
397             cout << "\n      Enter Trip Date: ";
398             cin >> t_date;
399
400             cout << "\n      Enter Trip Location: ";
401             cin >> s_loc;
402
403             cout << "\n      Enter Start Location: ";
404             cin >> f_des;
405
406             trips[j].tripdate[x] = t_date;
407             trips[j].triplocation[x] = s_loc;
408             trips[j].startlocation[x] = f_des;
409
410             cout << "\n      Trip Date: " << t_date << "\n";
411             cout << "\n      Trip Location: " << s_loc << "\n";
412             cout << "\n      Start Location: " << f_des << "\n";
413             cout << "\n      Final Destination: " << trips[j].finaldestination[x] << "\n";
414
415             cout << "\n      Your Trip is Added. Press any key to go Back to the main menu...";
416             cin.get();
417         }
418     }
419 }

```

Terminal Output:

```

Enter Invoice ID: 1
=====
Do you want to edit this Trip? Enter 'Y/y' for yes, 'N/n' for no.
=====
Trip Date: 31.03.2021
Trip Location:
-----
Start Location: Dhaka
Final Destination: Cox's Bazar

Enter Trip Date: 28.03.2021
Enter Trip Location:
-----
Start Location: Dhaka

```

```

1 //Project: Travel Agency Management System
2 //Name: Farhan Muhib Efty
3 //ID: 190105022, Lab Group: A1, Year: 2, Semester:
4
5
6 #include<iostream>
7 #include<vector>
8 #include<conio.h>
9 #include<cstdlib>
10
11 using namespace std;
12
13 class NewTravelTrip //Create a Class n
14 {
15 public: //Access specifier.
16     NewTravelTrip(); //Default Construct
17     NewTravelTrip(int m) //Parameterized Construct
18     {
19
20     }
21     void AddTrip(); //This Function is
22     string name;
23     string date;
24     string address;
25     string phoneno;
26     int invoice;
27     string email;
28     vector<string> tripdate; //Format: vector<dataType>nameOfVector.
29     void EditTrip(); //This Function is Edit the Previous recorded Trip
30 }

```

Terminal Output:

```

4. Delete user.
5. Add Trip.
6. Edit Trip.
7. Delete Trip.
8. Exit Program.

Enter Your Choice: 5
=====
You have chosen option 5.
=====

Enter Invoice ID: 1
Enter Trip Date: 04.04.2021
Enter Trip Location:
-----
Start Location: Cox's Bazar
Final Destination: Rangamati
=====
Your Trip is Added.
Press any key to go Back to the main menu...
=====

```



The screenshot shows a C++ IDE with a project named "190105022\_Travel Agency Management System.cpp". The code defines a class `NewTravelTrip` with attributes: `string name`, `string date`, `string address`, `string phoneno`, `int invoice`, `string email`, and `vector<string> tripdate`. It includes methods `AddTrip()` and `EditTrip()`. Comments indicate that `AddTrip()` is for adding a new trip and `EditTrip()` is for editing a previous recorded trip. The terminal window shows the program's execution flow: it prompts for a choice, displays a menu of options (1-8), and shows the details of a trip being deleted (Trip Date: 31.03.2021, Trip Location: Dhaka, Start Location: Dhaka, Final Destination: Cox's Bazar).

```
1 //Project: Travel Agency Management System
2 //Name: Farhan Muhib Efty
3 //ID: 190105022, Lab Group: A1, Year: 2, Semester:
4
5
6 #include<iostream>
7 #include<vector>
8 #include<conio.h>
9 #include<cstdlib>
10
11 using namespace std;
12
13 class NewTravelTrip //Create a Class n
14 {
15 public: //Access specifier.
16     NewTravelTrip(); //Default Constructy
17     NewTravelTrip(int m) //Parameterized Constructy
18     {
19
20     }
21     void AddTrip(); //This Function is
22     string name;
23     string date;
24     string address;
25     string phoneno;
26     int invoice;
27     string email;
28     vector<string> tripdate; //Format: vector<dataType>nameOfVector.
29     void EditTrip(); //This Function is Edit the Previous recorded Trip
```

8. Exit Program.

Enter Your Choice: 7

=====

You have chosen option 7.

=====

Enter Invoice ID: 1

=====

Do you want to delete this Trip? Enter 'Y/y' for yes, 'N/n' for no.

=====

Trip Date: 31.03.2021

Trip Location:

=====

Start Location: Dhaka

Final Destination: Cox's Bazar

=====

Your Trip is Deleted.

Press any key to go Back to the main menu...

=====

This screenshot shows the same C++ IDE and code as the first image. The terminal window displays a different execution path: it prompts for a choice, displays the menu of options (1-8), and shows an incorrect choice (10) being entered, leading to a message: "Sorry! Incorrect Option. Press any key to go to the main menu...".

```
1 //Project: Travel Agency Management System
2 //Name: Farhan Muhib Efty
3 //ID: 190105022, Lab Group: A1, Year: 2, Semester:
4
5
6 #include<iostream>
7 #include<vector>
8 #include<conio.h>
9 #include<cstdlib>
10
11 using namespace std;
12
13 class NewTravelTrip //Create a
14 {
15 public: //Access sp
16     NewTravelTrip(); //Default C
17     NewTravelTrip(int m) //Parameter
18     {
19
20     }
21     void AddTrip(); //This Fun
22     string name;
23     string date;
24     string address;
25     string phoneno;
26     int invoice;
27     string email;
28     vector<string> tripdate; //Format: vector<dataType>nameOfVector.
29     void EditTrip(); //This Function is Edit the Previous recorded Trip
```

=====

Please choose your option between (1 to 7):

=====

1. New Travel Trip.

2. Show All Users.

3. Edit user.

4. Delete user.

5. Add Trip.

6. Edit Trip.

7. Delete Trip.

8. Exit Program.

=====

Enter Your Choice: 10

=====

Sorry! Incorrect Option. Press any key to go to the main menu...

=====

The screenshot displays a C++ IDE with the following code in the editor:

```

1 //Project: Travel Agency Management System
2 //Name: Farhan Muhib Efty
3 //ID: 190105022, Lab Group: A1, Year: 2, Se
4
5
6 #include<iostream>
7 #include<vector>
8 #include<conio.h>
9 #include<cstdlib>
10
11 using namespace std;
12
13 class NewTravelTrip //Create a
14 {
15 public: //Access sp
16     NewTravelTrip(); //Default C
17     NewTravelTrip(int m) //Parameter
18     {
19
20     }
21     void AddTrip(); //This Fun
22     string name;
23     string date;
24     string address;
25     string phoneno;
26     int invoice;
27     string email;
28     vector<string> tripdate; //Format: vector<dataType>nameOfVector.
29     void EditTrip(); //This Function is Edit the Previous recorded Trip

```

The console window shows the program's execution:

```

Enter Your Choice: 10
=====
Sorry!Incorrect Option. Press any key to go to the main menu...
=====
Please choose your option between (1 to 7):
=====
1. New Travel Trip.
2. Show All Users.
3. Edit user.
4. Delete user.
5. Add Trip.
6. Edit Trip.
7. Delete Trip.
8. Exit Program.
=====
Enter Your Choice: 8
=====
Press Any key.
If you Want to Exit the Program...
=====
Process returned 0 (0x0)   execution time : 22.225 s
Press any key to continue.

```

**Discussion:** To solve this project named "Travel Agency Management System," I have created a MENU that includes eight options such as New Travel, Show All User, Edit User, Delete User, Add Trip, Edit Trip, Delete Trip, and Exit Program. In this program, I have created two classes named New Travel Trip and Show All User. I have declared three function named Add Trip(), Edit Trip() & Delete Trip() in the New Travel Trip Class section. I have declared two constructors in the New Travel Trip class: the "Default Constructor" and another is "Parameterized Constructor." In the Show All User class, I have also declared three more functions, and these are Show User(), Delete User(), and Edit User(). In the main function, I have used a switch statement to show the option MENU. In this project, I have used four header files. The first one is <iostream>; this header file provides basic input and output services. The second one is <vector>; this header file is used for a contiguous storage location for their elements. The second last is <conio.h>; the CONIO stands for Console Input Output, which has functions like getch(). The getch() function holds the output screen for some time until the user passes a key from the keyboard to exit the console screen. And the last one is <cstdlib>; this header file declares a set of general-purpose functions such as exit() function. The exit() function works to terminate the program.