

## Main Menu

```
Hi!  
Login as  
1. User  
2. Admin  
3. Help  
4. Quit  
>>
```

At first, please enter 1 to login as user, 2 as [Admin](#), 3 for more information and 4 to quit the program.

```
Hi!  
Login as  
1. User  
2. Admin  
3. Help  
4. Quit  
>> 1
```

If you wish to search for [Attraction](#), please enter 1.

```
Search for  
1. Attraction  
2. City Connections Flight  
3. Back  
>> 1
```

If you wish to search for [City Connections Flight](#), please enter 2.

```
Search for  
1. Attraction  
2. City Connections Flight  
3. Back  
>> 2
```

If you wish to go back to menu, please enter 3.

```
Search for  
1. Attraction  
2. City Connections Flight  
3. Back  
>> 3
```

## User Panel Part 1 (Attraction)

Please choose a city to proceed the search.

```
Hello there.  
Please choose a city.  
1. Kuala Lumpur  
2. New York City  
3. Osaka  
4. Paris  
5. Tokyo  
Input the number >> 2
```

Here, you can search by either its Type/Category or by Attraction name itself.

If you wish to search by Type/Category, please enter 1.

```
Sort by?:  
1. Type  
2. Attraction  
Input the number >> 1
```

If you wish to search by Attraction name itself, please enter 2.

```
Sort by?:  
1. Type  
2. Attraction  
Input the number >> 2
```

If you have chosen search by Type/Category, please enter the respectively type number to proceed the search.

```
You have chosen sort by Type.  
  
Here are the Type.  
1. Sport  
2. Culture  
3. Shopping  
Input the number >> 3
```

The Attraction description will then show up.

To continue search by Type/Category, please enter Y.

```
The city chosen is New York City.  
The attraction is Fifth Avenue.  
Fifth Avenue is best known for luxury boutiques and big department stores.  
  
Press any key to continue . . .  
Do you wish to continue(Y) OR go back to menu(B)? Y
```

If you wish to go back to menu, please enter B.

```
The city chosen is New York City.  
The attraction is Fifth Avenue.  
Fifth Avenue is best known for luxury boutiques and big department stores.  
  
Press any key to continue . . .  
Do you wish to continue(Y) OR go back to menu(B)? B
```

If you have chosen search by Attraction name, please enter the exact Attraction name to proceed the search.

*Note: It is not case sensitive*

```
You have chosen sort by Attraction.

Here are the Attractions.
1.  Baseball
2.  Empire State Building
3.  Fifth Avenue

Input the exact name >> Fifth Avenue
```

The Attraction description will then show up.

To continue search by Type/Category, please enter Y.

```
The city chosen is New York City.
The attraction is Fifth Avenue.
Fifth Avenue is best known for luxury boutiques and big department stores.

Press any key to continue . . .
Do you wish to continue(Y) OR go back to menu(B)? Y
```

If you wish to go back to menu, please enter B.

```
The city chosen is New York City.
The attraction is Fifth Avenue.
Fifth Avenue is best known for luxury boutiques and big department stores.

Press any key to continue . . .
Do you wish to continue(Y) OR go back to menu(B)? B
```

## User Panel Part 2 (City Connection Flight)

Now, you will have a full record of the City with theirs Attraction.

All Records Table		
City ID, Name	Attraction ID, Name	Type ID, Name
[1] Kuala Lumpur	[101] Badminton	[1] Sport
[1] Kuala Lumpur	[102] Petronas Towers	[2] Culture
[1] Kuala Lumpur	[103] Pavillion Kuala Lumpur	[3] Shopping
[2] New York City	[201] Baseball	[1] Sport
[2] New York City	[202] Empire State Building	[2] Culture
[2] New York City	[203] Fifth Avenue	[3] Shopping
[3] Osaka	[301] Martial Arts	[1] Sport
[3] Osaka	[302] Osaka Castle	[2] Culture
[3] Osaka	[303] Den Den Town	[3] Shopping
[4] Paris	[401] Swimming	[1] Sport
[4] Paris	[402] Eiffel Tower	[2] Culture
[4] Paris	[403] Les 4 Temps	[3] Shopping
[5] Tokyo	[501] Sumo	[1] Sport
[5] Tokyo	[502] Meiji Shrine	[2] Culture
[5] Tokyo	[503] Ginza	[3] Shopping
[5] Tokyo	[504] Hue	[3] Shopping

In order to search for a connectivity of Cities.

Please enter both of the Origin and Destination Cities.

```
Please input the Origin City ID >> 2
```

```
Please input the Destination City ID >> 4
```

It then will show you whether that both the Origin and Destination cities is connected with direct flight, indirect flight or not connected.

```
There is a direct flight from Paris to Paris
```

```
There is a indirect flight from New York City to Paris
```

```
There is no flight from Paris to Kuala Lumpur
```

To continue the search, please enter Y.

If you wish to go back to menu, please enter B.

```
Press any key to continue . . .  
Do you wish to continue(Y) OR go back to menu(B)?
```

## Admin Panel Part

To login as Admin, password is needed. The password is "password".

```
Welcome back! Admin.  
Please input "password" to login.  *****
```

In the Admin panel, a table will show as below. This table contains all the records existing in the program. Admin can then use this table to ease editing information.

All Records Table		
City ID, Name	Attraction ID, Name	Type ID, Name
[1] Kuala Lumpur	[101] Badminton	[1] Sport
[1] Kuala Lumpur	[102] Petronas Towers	[2] Culture
[1] Kuala Lumpur	[103] Pavillion Kuala Lumpur	[3] Shopping
[2] New York City	[201] Baseball	[1] Sport
[2] New York City	[202] Empire State Building	[2] Culture
[2] New York City	[203] Fifth Avenue	[3] Shopping
[3] Osaka	[301] Martial Arts	[1] Sport
[3] Osaka	[302] Osaka Castle	[2] Culture
[3] Osaka	[303] Den Den Town	[3] Shopping
[4] Paris	[401] Swimming	[1] Sport
[4] Paris	[402] Eiffel Tower	[2] Culture
[4] Paris	[403] Les 4 Temps	[3] Shopping
[5] Tokyo	[501] Sumo	[1] Sport
[5] Tokyo	[502] Meiji Shrine	[2] Culture
[5] Tokyo	[503] Ginza	[3] Shopping
[5] Tokyo	[504] Hue	[3] Shopping
City Flight Connection Lines		
City[1] >>> City[2]	City[1] >>> City[3]	City[2] >>> City[3]
City[3] >>> City[1]	City[3] >>> City[4]	City[4] >>> City[4]
City[5] >>> City[2]	City[5] >>> City[5]	
<ol style="list-style-type: none"><li>1. Add a New City Record</li><li>2. Edit a City Record</li><li>3. Remove a City Record</li><li>4. Add a New Attraction Record</li><li>5. Edit a Attraction Record</li><li>6. Remove a Attraction Record</li><li>7. Add City Connections Record</li><li>8. Edit City Connections Record</li><li>9. Remove City Connections Record</li><li>Q. Back</li></ol> <p>=&gt;</p>		

According to the numbering, Admin can add, edit or remove any of the information.

Once done following the steps, a Confirmation Request will then show up. Enter Y to confirm the changes, entering others will be abort the request.

```
Confirm to add a new City Record (Y/N)? >> Y
```

Once confirm, a “updated” status will then show up. If it is successfully updated, it will show same as below.

```
City file successfully updated  
Press any key to continue . . .
```

If it Failed to update, the reason why will show following by “Error updating file”.

“File exists” means the respecting file is currently being used by other program.

```
Error updating file: File exists  
Press any key to continue . . .
```

## Compile Command Line

`g++ -std=c++11 Main.cpp && a`