**Tourism Application**

1. **Introduction**

Our application allows users to experience the beauty of Pakistan by travelling with us. We offer five different places. Users can book their tickets to Islamabad, Murree, Kashmir, Swat and Naran. It is the easiest platform for travelers which can be easily booked, and details can be viewed. User adds up all the information of themselves and can enjoy their trips. Nearly everyone wants to go on a trip and this application will help them to plan a perfect trip. We would take you on tour to the most beautiful spots of these locations.

1. **Modules**

Some of the modules are discussed below:

* + 1. **Book Tickets**

Users are required to add the personal information. Select departure and arrival locations. User will also be given hotel rooms (single, double, triple) to stay. Users are supposed to add hotel stay duration as well. User can pay through via credit card or cash (in person).

* + 1. **Update**

How many times people have made a mistake of adding a wrong drop location? Our application fixes this issue like a piece of cake. Users are supposed to add their personal information, once that’s done you can change your drop location. Our application calculates the new route and the new time and also calculates the new cost to travel to the new location automatically.

* + 1. **Cancel**

Imagine getting a call from your boss that your duty has been appointed somewhere and it’s important once you’ve planned a vacation. I know that sucks but our application has made that task easy as well. Just with the press of one click, you can cancel your ticket anytime.

* + 1. **Feedback**

We hear you. We have allowed users to tell us how their travel experience and hotel experience was. They can also give rating.

* + 1. **Contact Us**

In case of any emergency, we have allowed users to contact us. Our company provides the name of administrator, email address, phone number and our official address.

1. **Data Structures**

Our application consists of following data structures:

* Linked list (multi-dimensional).
* Queue.
* Graphs.

1. **Graph Representation**

MURREE

KASHMIR

NARAN

SWAT

**ISB**

1. **General Hierarchy**

**AKKB Tourism**

**View**

**Ticket**

**Hotel Menu**

**Book Ticket**

**Update**

**Cancel**

**Feedback**

**Contact us**

Add personal Information

Departure

Arrival

Starter

Soup and Salad

Main Course

Drinks

Travel experience

Hotel experience

Rating

Name of Administrator

Email Address

Phone Number

Company’s Address

Select Booking No

Start location

Drop location

Select rooms

Payment

1. **Tools and Technology**

We have used ***C++*** as our main programing language for dealing with all the coding, complexities and data structures in VS Code work environment.