# Project Description:

## Problem:

The problem given to us is flight reservation system. The airline reservation system facilitates users (or passengers) in finding suitable itinerary across

several airliners and destinations.

## Solution:

The passengers usually provide the following information to the airline reservation system for planning their air travel.

 Origin

 Destination

 Date of travel

 Flying time

 Landing time

 Ticket price

 Name of airline

## Date and Time class

Firstly, we implemented a class of Time and Date to save Date and time of each flight properly.

## Flight Info Class:

This Class Contains the flight information of each Flight .This contain the origin of the flight and the arival of the flight .It also contain the date of the flight and its departure time and arival time of the flight and the Airline information like Name of the Airline and price of the Ticket.

## Vector Class

Its is templatized class of Vector

## Graph

Graphs Class is making graph of the flights using Adjecy list . In its Constructor we send name of two files 1: Flights 2: File which contains the price if the person stay.

## Constructor

The complexity of the Constructor O)N^3(.In Constructor it reads the file of Flights and the flie which contain the price of the city if the person stay in that city more than 12 hours and make make the graph of the city

The complexity of all the scenarios and traversel is O|V||E||Vector| .a