**Problem description:**

The main objective is to allow passengers to book flights.

Each passenger has a name, age, nationality, passport number, multiple phone numbers, gender, and an address.

A passenger is uniquely identified by both his passport number and his nationality.

Passengers book seats in flights. Seats are either first class or economy.

Each flight has a departure time, estimated arrival time, a price for both economy and first classes, a status (scheduled, departure, arrived, cancelled), and an ID that uniquely identifies it.

Each flight goes from an airport to another airport.

Each airport has a country and a city where it’s located, a name, and an ID that uniquely identifies it.

Flights are organized by airline companies.

Each airline company has a name that uniquely identifies it, an email, a phone number, and a location.

Airlines owns aircrafts that participate in flights.

Each aircraft has a type or a model, an ID that uniquely identifies it, and a maintenance time.

Based on the type of the aircraft a set of features will be identified. Those are first class capacity, economy class capacity, presence of Wi-Fi, and presence of screens.

A list of some important operations that must be provided:

* List passengers on a particular flight.
* List passengers who traveled from airport X to airport Y on some time interval.
* Count the number of empty seats on a flight.
* List seat numbers of empty economy or first-class seats on a flight.
* List all flights from airport X to airport Y ordered by price, number of stops or estimated time (journeys are included even if there is no direct flight from X to Y).
* Listed flights might be filtered by the presence of Wi-Fi or any other feature.
* Count the number of flights that used airport X for landing or departure in a given time interval or in general.
* Count number of flights an aircraft did in a given time interval or in general.
* Book a flight for a passenger either first class or economy.
* Show the price of booking a flight either first class or economy.