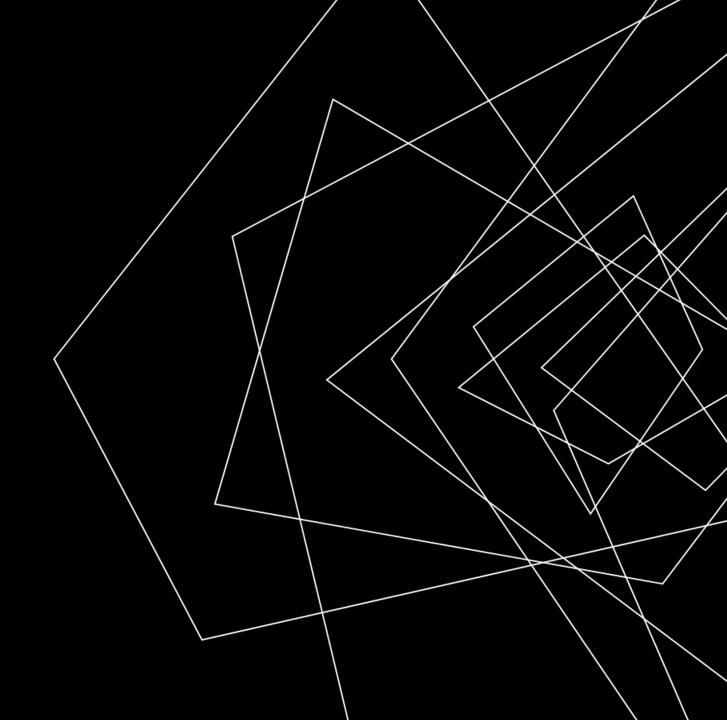


TABLE OF CONTENTS

- Problem Description
- Application Features
- Port Deployed
- Functionality: Homepage
- Functionality: Airline Details
- Functionality: User Details
- Functionality: Seat Details
- Functionality: Flight Fares



PROBLEM DESCRIPTION

The project is a small implementation of a widely used transaction-based processing system - the **Airline Reservation System**. It incorporates various functionalities like airline schedules, fare tariffs, passenger reservations, and ticket records, etc.

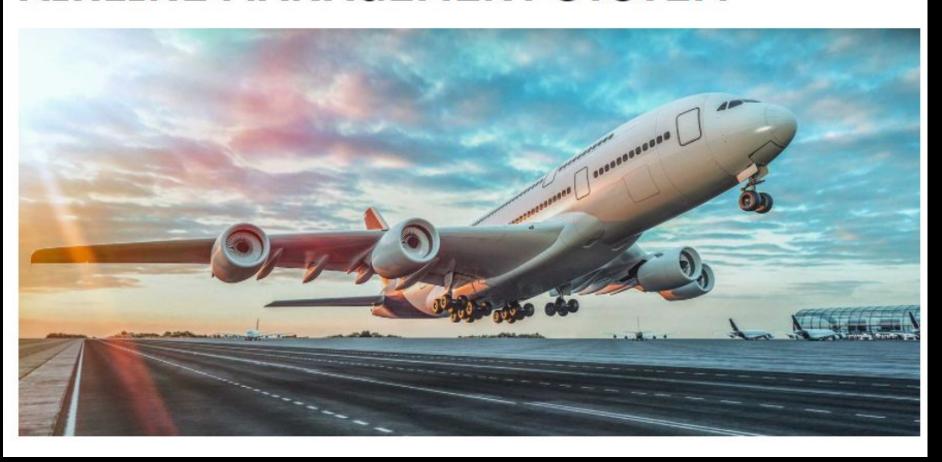
We process different types of requests/transactions by implementing various database operations like insertions, selections, group by, join, order by, aggregate functions (e.g.: count), etc.

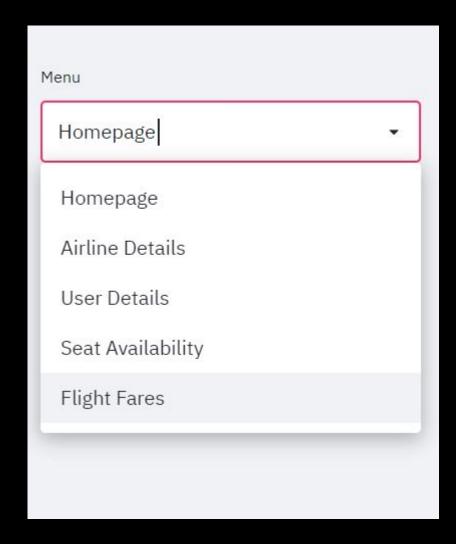
APPLICATION FEATURES

The application provides the user to get the following information:

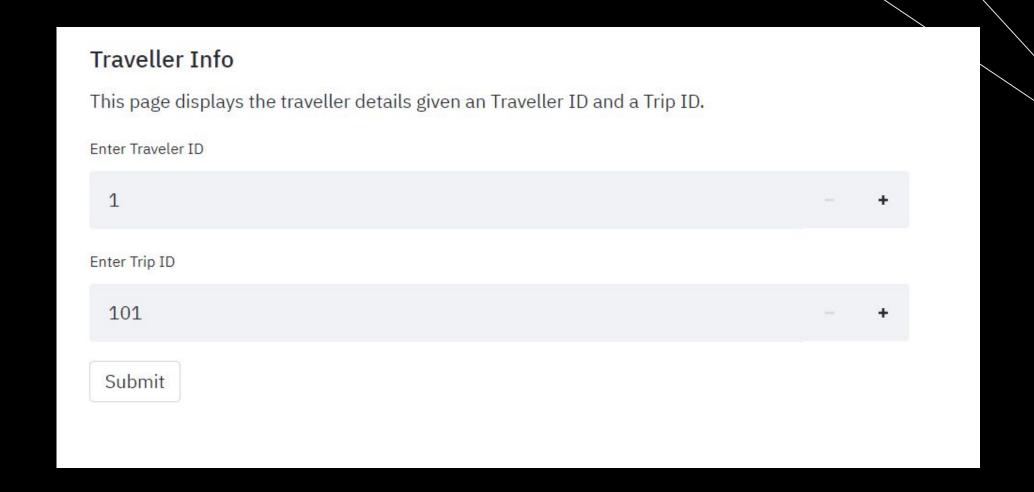
- Traveler information
- Traveler Itinerary (including stops in their trip)
- •The total number of flights that would operate corresponding to every airline
- •The total number of bookings done by each user type agency / traveler in each airline
- •The total number of bookings done by each agency in each airline
- •The total number of seats available for booking in each airplane.
- •The total number of seats available for booking in each airplane, for each of the seat categories aisle, window and middle.
- Fare associated with every flight.

AIRLINE MANAGEMENT SYSTEM





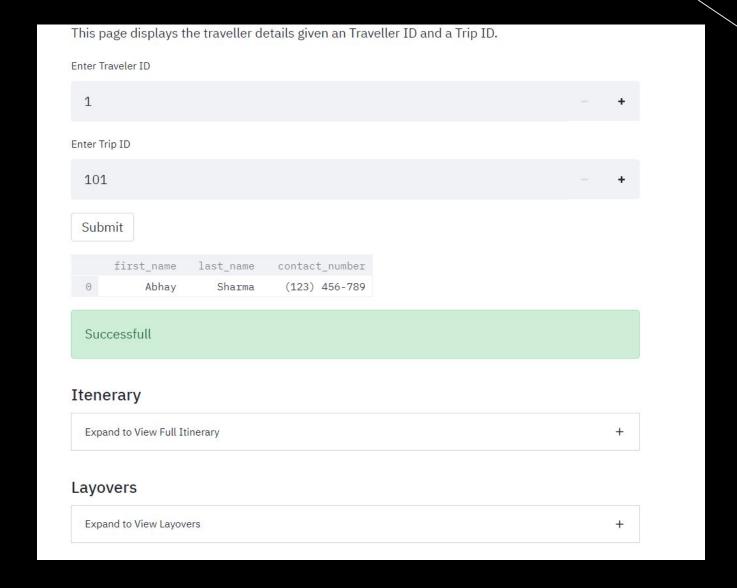
The menu at the left corner of the application lists the details that this application provides.



On choosing the homepage, a user gets prompted to enter the Traveler id and Trip id. Every traveler has a unique id (traveler id) and is associated with a unique trip id corresponding to their travel.



On Submitting this, the user can see the details: First name, Last name and Contact number of the traveler undertaking this trip.



The same details earlier submitted (traveler id and trip id) can be used to check the users' itinerary and layovers of their trip (if any).

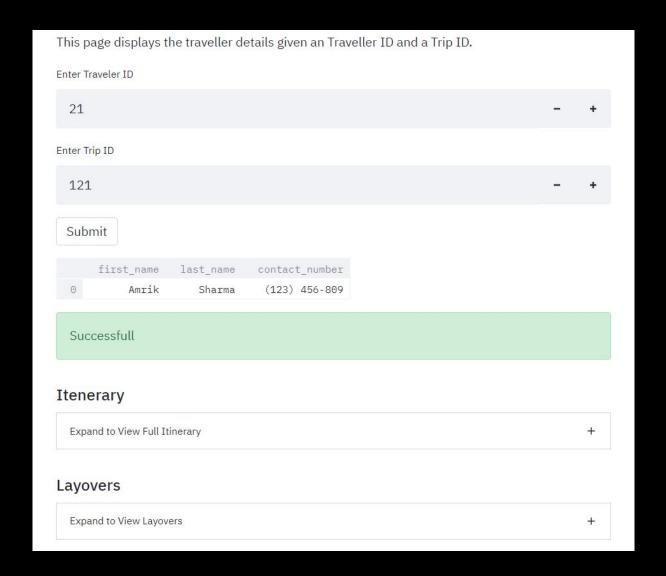


The user with traveler id = 1 and trip id = 101 has a flight scheduled from delhi airport, departing at 1:45, reaching mumbai airport at 4:10, on the airplane numbered 1001.

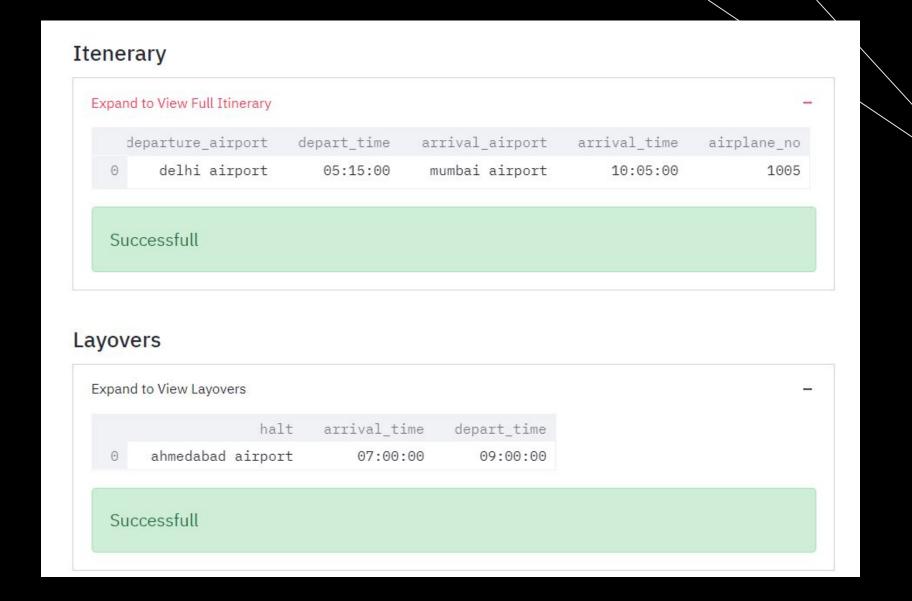
Note: Every airplane in our database is uniquely identified by a unique airplane number.



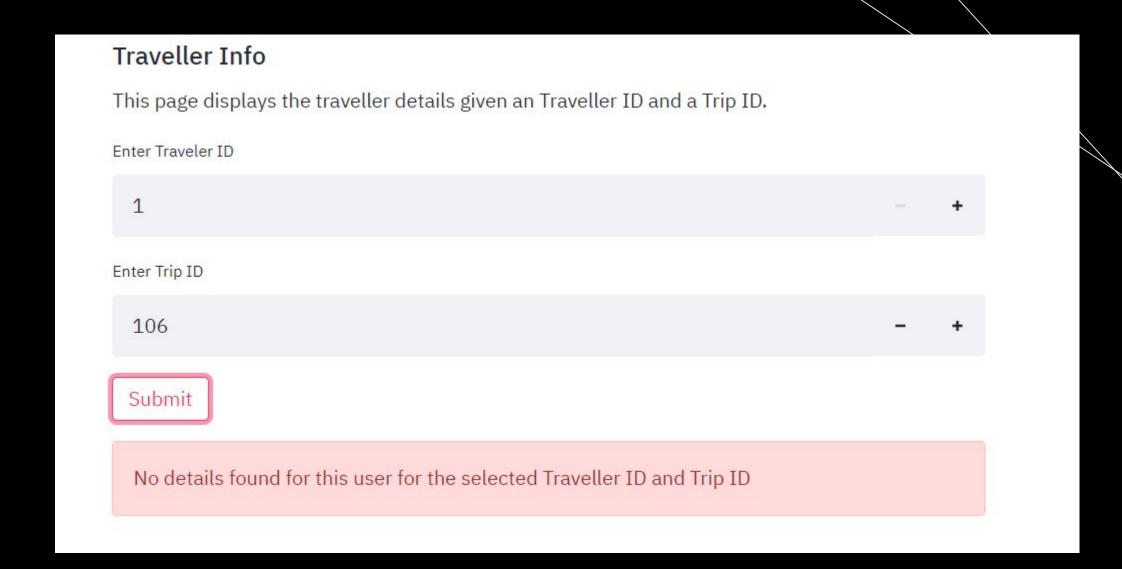
The selected trip has no layovers.



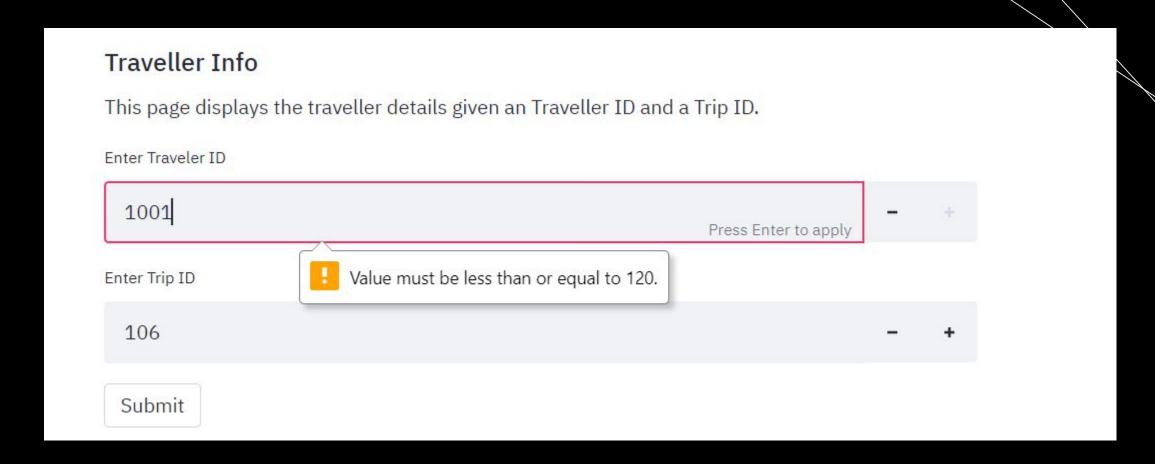
Let's try it for a different user.



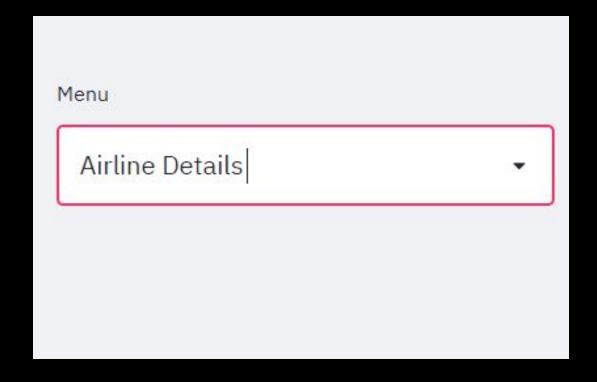
This user, who is travelling on airplane number 1005, has a halt at ahmedabad airport. The details of the arrival and departure time at this halt is also shown to the user.



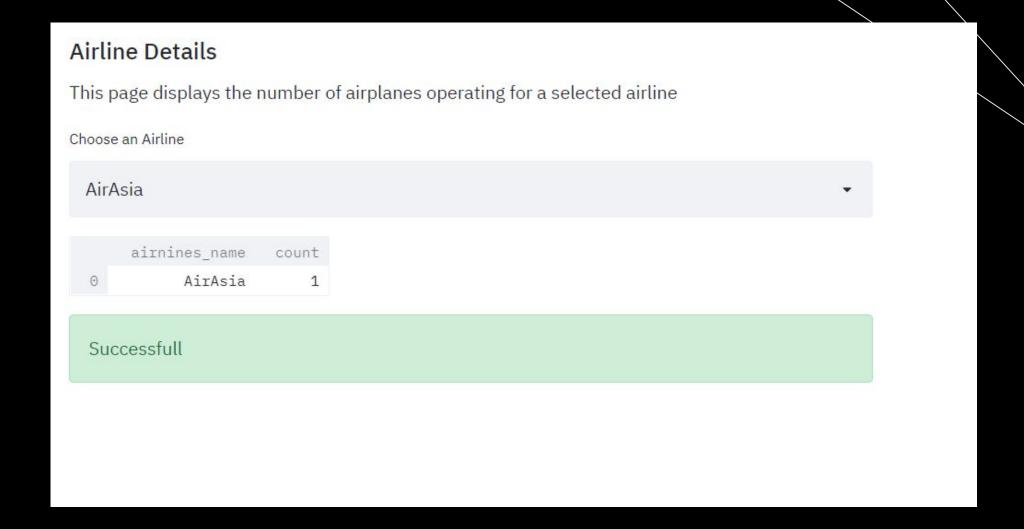
If a user enters a trip id, which is not associated with the traveler id, no details will be fetched.



In our dataset, Traveler id ranges from 1 to 120 and Trip id ranges from 101 to 220. Any deviation from this range would not be accepted by our application.

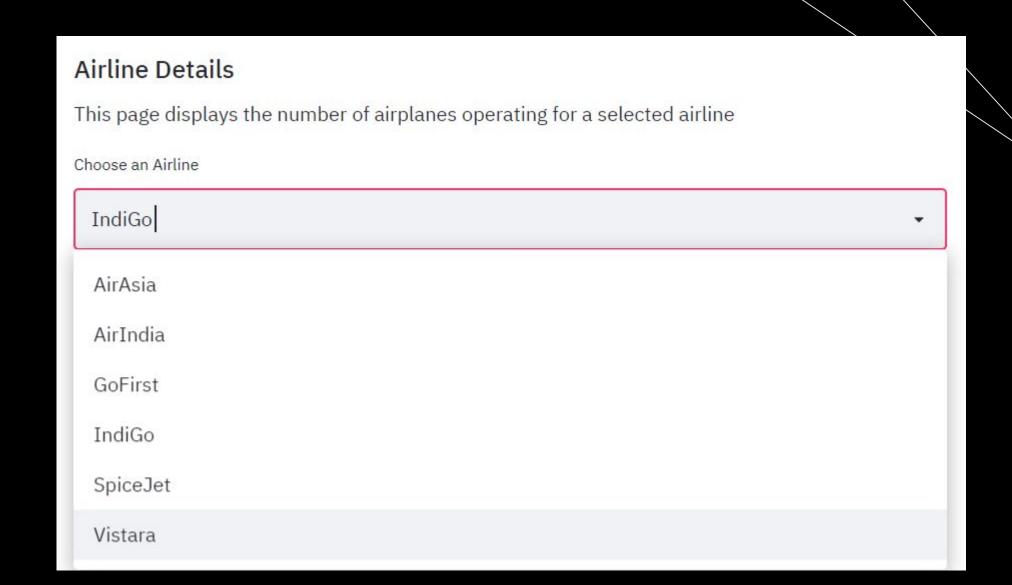


Let's try to explore the next functionality of this application.

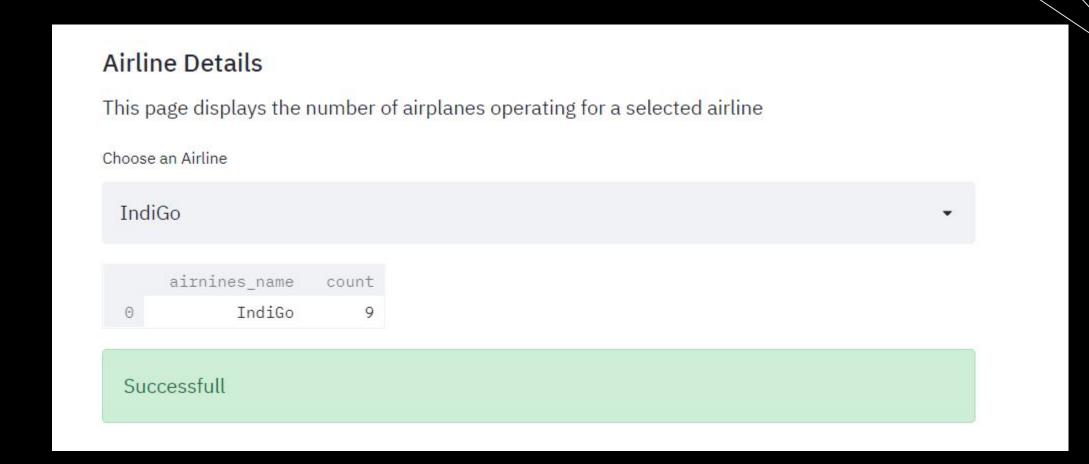


This page displays how many airplanes operate for each of the airlines in our dataset. By default, the details of the airline AirAsia is displayed.

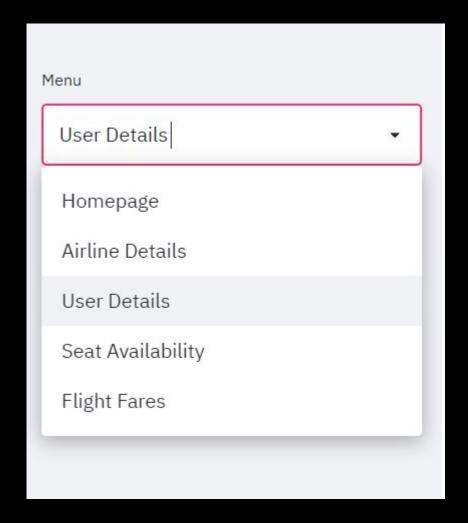
Note: Our dataset shows all the information for a specific date.



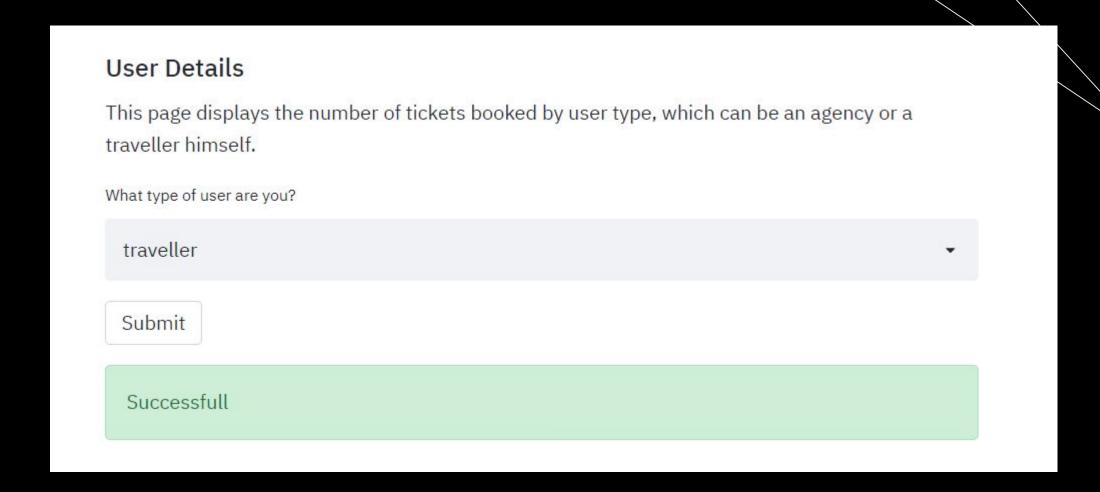
A user can select any airline to find their results



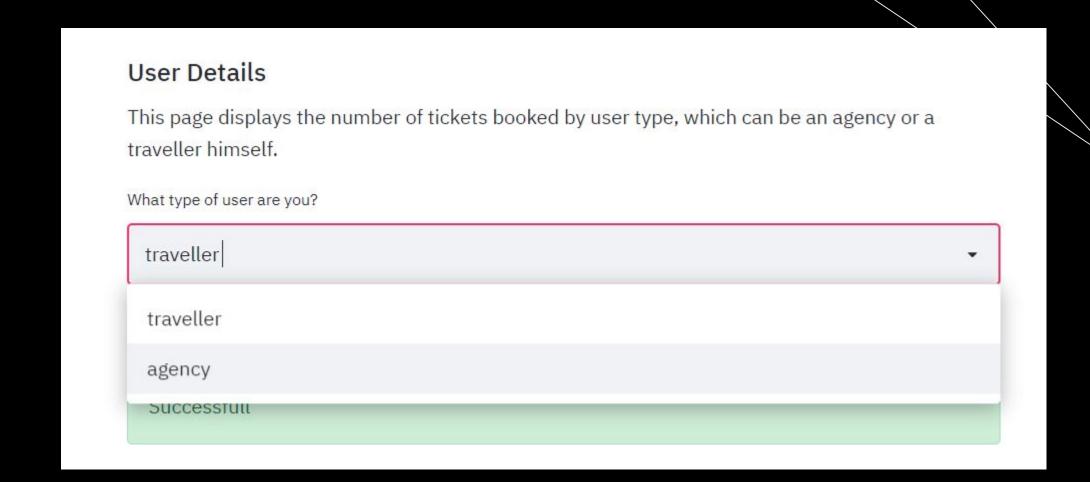
IndiGo airline has 9 operating flights.



Let's move to the next functionality.

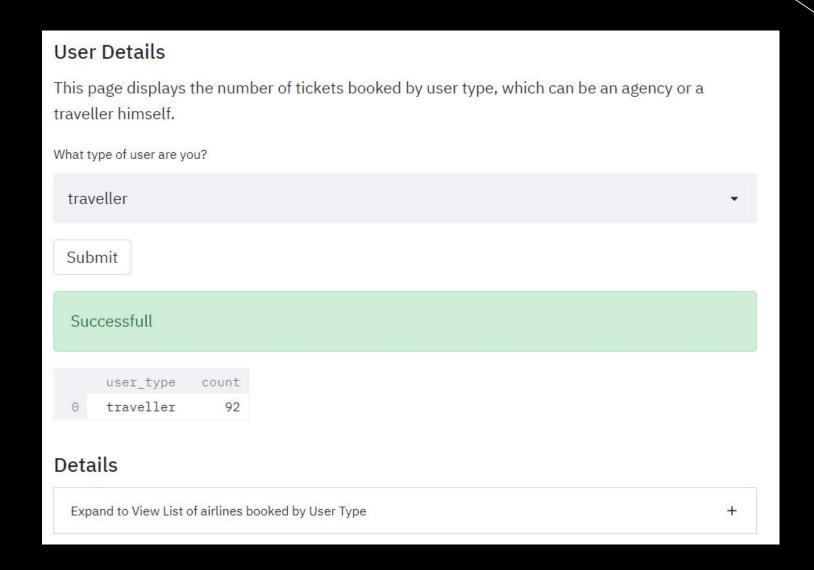


Functionality: To retrieve how many tickets were booked by each user type, and their further distribution based on airlines.

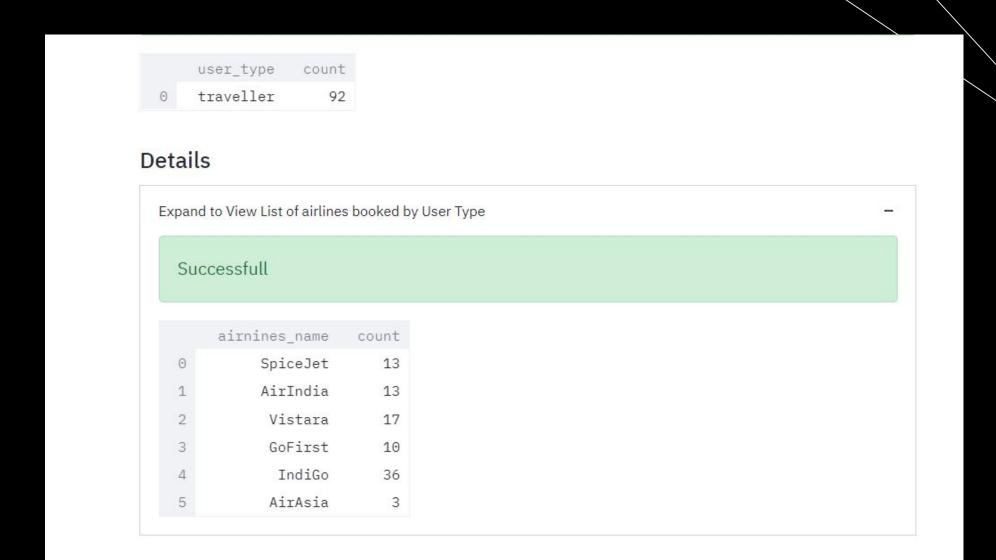


Our dataset has 2 kinds of users.

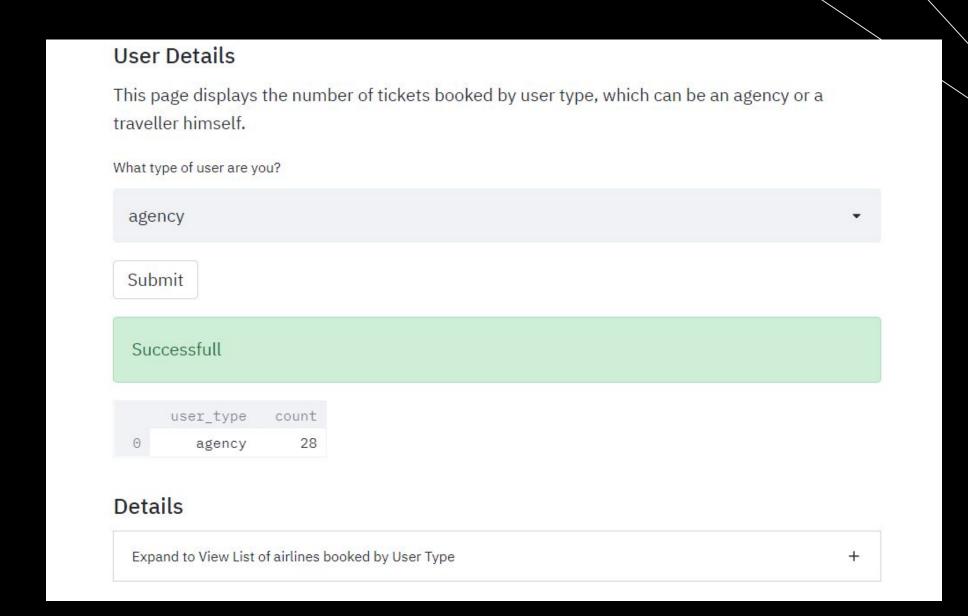
- 1. Traveller: The ones who are travelling on the flight which they have booked.
- 2. Agency: The ones who are not travelling, but have booked tickets.



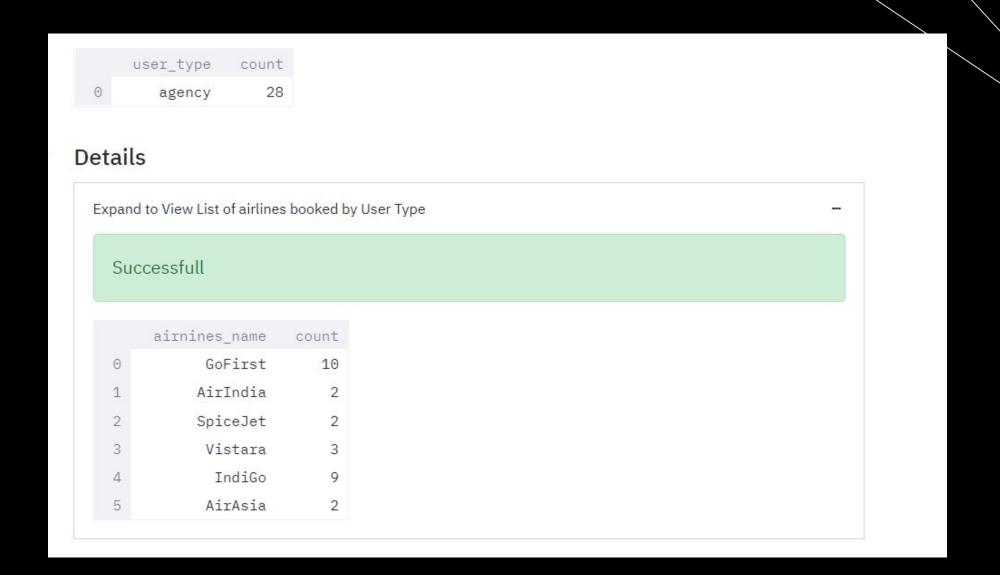
In our dataset, there are 92 bookings which have been done by those who are travellers as well.



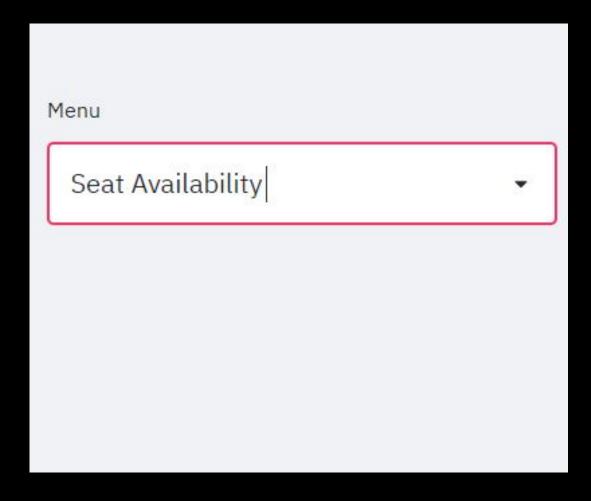
For each airline, we can see the number of bookings done by travellers.



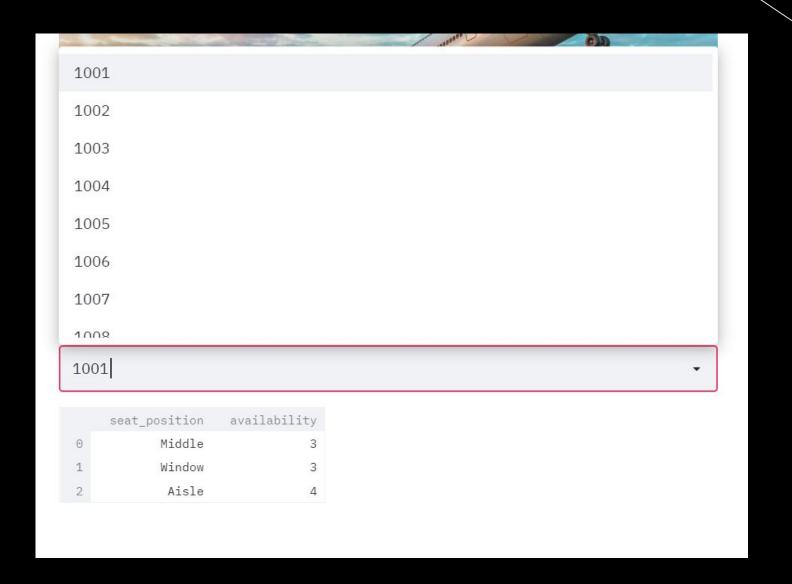
Agencies had total 28 bookings.



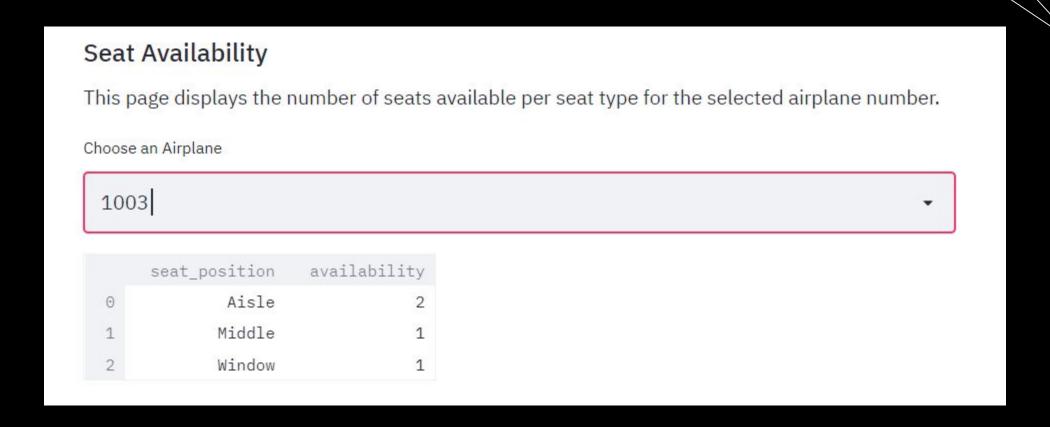
The further breakdown of the bookings, categorized by airlines can be seen.



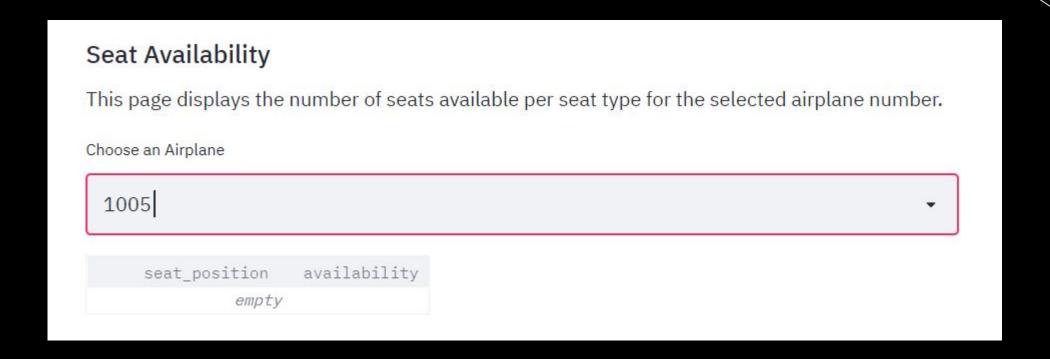
Let's explore the next functionality.



To begin with, a user needs to select an airplane number.



Having selected an airplane number, the application shows the availability of seats characterized by the seats' location - aisle window and middle.



Airplane number 1005 has no seats available!

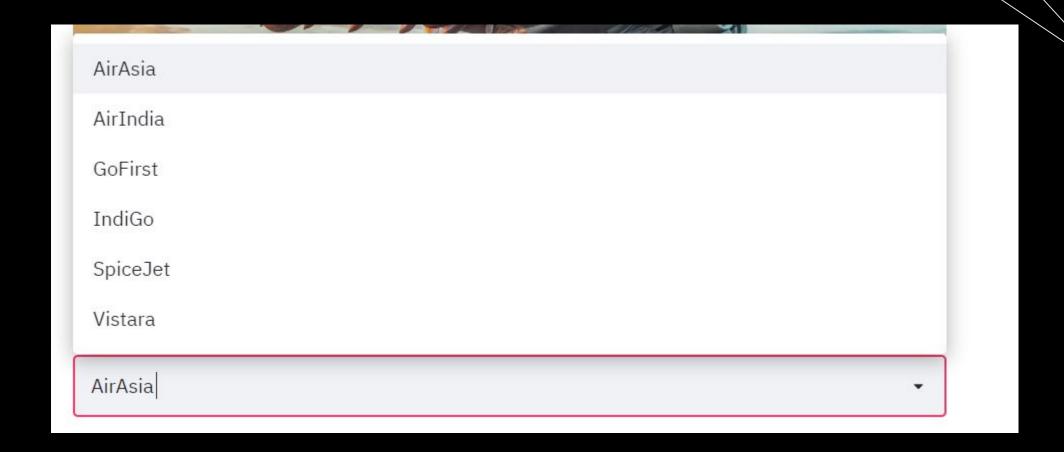


And here comes the next functionality, Flight Fares.



This functionality allows users to see the ticket cost for each airlines.

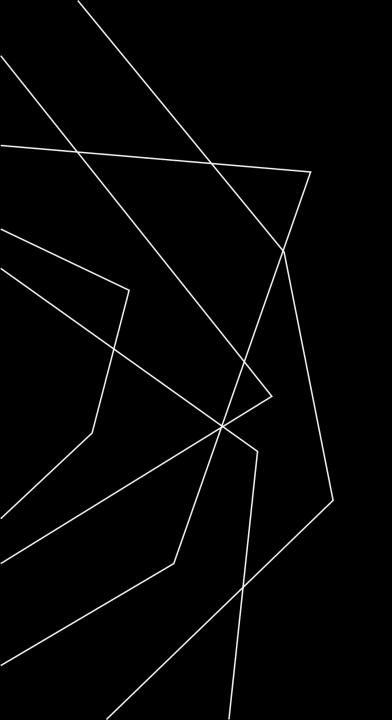
Note: In our data set, every traveler pays the same fare for the same flight.



One can choose among airlines to see all the fare options that that airline has to offer.



In our dataset, the Vistara airline has 5 airplane flights for the date, and mentioned is the ticket cost for each of them.



THANK YOU