

# **Team 6 - Bus Booking Service**

## **General description**

Our project is an online bus booking service that offers city-to-city bus tickets to Dallas, Austin, Houston, and San Antonio. It facilitates easily booking travel tickets accessible from both computers and smartphones. It will assist travelers in choosing the route that best fits their needs and will be able to emphasize the most popular cities for travelers. Additionally, the system will be able to produce analysis for the company, based on which operational choices will be made to optimize productivity and income.

## **Data Description**

### **Passenger**

- Each passenger has a unique ID and unique username.
- Personal details of the passenger include name, phone numbers, email address, date of birth, password and address. Address will include street, apartment, city, state, and zip code.

### **Driver**

- Each driver has a unique ID.
- Personal details of the driver include license number, name, phone numbers, email address, and date of birth.
- The driver is assigned to a particular bus.

### **City**

- Each city will have a unique city ID, name, state, and zip code.

### **Route**

- Each route will have a unique Route ID.
- Each route will have exactly two cities, source and destination.

### **Bus**

- Each bus will have a unique bus number (Number plate).
- The bus type will be either seater or sleeper.

- Each bus will have 40 seats available.

## **Ticket**

- Each ticket will have a unique ID.
- The passenger will book a ticket.
- The ticket has the price, date and time of the journey, and the number of seats booked.
- Additionally, it has route information and bus information.
- Once the passenger books the ticket, it should store the date and time of booking.

## **Business Goals**

- List the bus numbers of the top 5 buses that travel to Dallas the most.
- List the details of the drivers who are assigned to all the buses.
- Total number of passengers traveling to a particular city in a particular month and its grand total.
- List the total amount spent by passengers traveling to each city and its grand totals.
- Sales for each bus going on each route along with its grand totals.
- The city which has the most number of tickets booked.
- The age group that books the most tickets for prices less than 50\$.
- Buses which have less than 5 bookings for a trip.
- The age group which visits a certain city the most.
- Maximum number of cities a driver has driven to.

## **Team**

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