COMP-512 Distributed Systems, Fall 2020

User Guide

- **Help**

  Provides information about the available commands

  `Help`: list of all commands

  `Help,<command>`: detailed description of command

- **Add a new flight**

  Add information about a new flight

  `AddFlight,<xid>,<FlightNumber>,<NumberOfSeats>,<PricePerSeat>`

- **Add a new car location**

  Add information about a new car location

  `AddCars,<xid>,<Location>,<NumberOfCars>,<PricePerCar>`

- **Add a new room location**

  Add information about a new room location

  `AddRooms,<xid>,<Location>,<NumberOfRooms>,<PricePerRoom>`

- **Add a new customer**

  Add a new customer to the database

  `AddCustomer,<xid>`: system provides customer ID

  `AddCustomerID,<xid>,<CustomerID>`: user provides customer ID

- **Delete a flight**

  Delete information about a flight (fails if reservations present)

  `DeleteFlight,<xid>,<FlightNumber>`

- **Delete a car location**

  Delete all cars from a location (fails if reservations present)

  `DeleteCars,<xid>,<Location>`

- **Delete a room location**

  Delete all rooms from a location (fails if reservations present)

  `DeleteRooms,<xid>,<Location>`

- **Delete a customer**

  Delete a customer from the database as well as their reservations

  `DeleteCustomer,<xid>,<CustomerID>`

- **Query a flight**

  Obtain the number of available seats on a flight

  `QueryFlight,<xid>,<FlightNumber>`

- **Query a car location**

  Obtain the number of available cars at a location

  `QueryCars,<xid>,<Location>`

- **Query a room location**

  Obtain the number of available rooms at a location

  `QueryRooms,<xid>,<Location>`

- **Query a customer**

  Generate the bill (based on reservations) of a customer

  `QueryCustomer,<xid>,<CustomerID>`

- **Query a flight price**

  Obtain the price of a seat on a flight

  `QueryFlightPrice,<xid>,<FlightNumber>`

- **Query a car price**

  Obtain the price of a car at a location

  `QueryCarsPrice,<xid>,<Location>`

- **Query a room price**

  Obtain the price of a room at a location

  `QueryRoomsPrice,<xid>,<Location>`

- **Reserve a flight**

  Reserve a flight number for a customer

  `ReserveFlight,<xid>,<CustomerID>,<FlightNumber>`

- **Reserve a car**

  Reserve a car for a customer at a location

  `ReserveCar,<xid>,<CustomerID>,<Location>`

- **Reserve a room**

  Reserve a room for a customer at a location

  `ReserveRoom,<xid>,<CustomerID>,<Location>`

- **Reserve a bundle**

    Book 1+ flights, and an optional car/room at a location (0/1 value) for a customer

    `Bundle,<xid>,<CustomerID>,<FlightNumber1>,...,<FlightNumberN>,`
    `<Location>,<BookCar?>,<BookRoom?>`

- **Quitting**

    Exit the application

    `Quit`