COMP-512 Distributed Systems, Fall 2018

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`