General Overview of the system, small user guide:

Login

- Specify login or register account
- If logging in, enter case insensitive username, followed by case sensitive password
- If Registering, enter registration information and case sensitive password

Search

- Enter a maximum of three keywords, separated with a space.
- If there is a ride of your choice, enter the rno. If not enter next to see the next five. If its empty, you can exit using exit.

Offer a Ride

- Enter the number of seats
- Enter the price per seat
- Enter a luggage description
- Search for a destination and source (from and to)
- Hit y and you can add a car number if you have a car added in the system
- If you want enroute destinations, enter y and you can search for a location with the same system for the destination and source locations. If you want to keep adding more, keep hitting y when prompted.

Cancel Bookings and Book a member

- Enter the booking which you want to cancel or enter 'book' to book a member
  Cancel bookings
- Enter the email id of the member you want to book for the ride
  Check if the email is valid
- Enter the ride number you want to book the ride for
  Check if the person entered a ride number which belongs to a ride which he offers
- Enter the number of seats you want to book- if it is overbooked, confirm If you want to continue
- Enter the pickup and dropoff location
  Check if the location is valid(case-insensitive)
- Enter the cost

Post a ride request

- Enter ride request date
- Enter a pickup location code
- Enter a dropoff location code
- Enter the price you're willing to pay per seat
- If all are valid, the ride request will be posted

Search and delete ride requests

- Up to 5 requests are shown

- Enter "y" to see 5 more rides, or enter anything else to skip
- Enter the ride id of the ride you wish to delete, if not, enter anything else

Detailed design of software, focus on components required to deliver the major functions:

Logged in Options

- offer: Lets the user offer a ride with the given date, number of seats, price per seat, luggage description, source location, destination location, optional cno and optional enroute locations.
- search: Lets the user search for a ride given 3 keywords maximum. If they find a ride that they like, they can message the ride driver through the system.
- Smr: Lets the user see all their ride requests 5 at a time, and they may delete specific requests if they choose
- Post request: Lets a user post a new ride request, as long as they provide a date for the ride, a pickup location, a dropoff location, and a price per seat willing to be paid.

Testing strategy:

Smr

- Logged into multiple accounts, some with no requests, some with less than 5 requests, and some with more than 5 requests, and tested deleting requests on all, and invalid inputs

Post request

- Tested invalid/valid dates, tested invalid/valid pickup and dropoff codes, made sure price must be at least $1 and an integer.

Offers

- Entered an invalid date, entered a negative price, entered negative seats, entered a longer than expected luggage description.

Search

- Entered no keywords, entered more than two keywords, entered a keyword with a nonexistent ride, tested a keyword with one ride, tested three keywords for a specific ride.

Bookings

- Tested invalid ride numbers, invalid keywords, entered a ride which the member doesn't offer, entered overbooked rides, tested case insensitivity for locations

Group work break down:

Thomas

- Offering rides, searching for rides, getting a location from a keyword.

Chady

- Posting ride requests, searching and deleting ride requests, login and registration, database setup

Farish

- Cancel bookings, book a member for a ride, print match requests