Modelling a ride

A ride can be modelled from A to B by first fetching the values of A and B from the user in respective input fields like for example “Source” and “Destination”. Once the user enters these values the application will first list out all the vehicles that are available in the “Source” city entered by the user. The user can further filter out the vehicles based on required fields that are “Minimum no. of seats” and “Maximum no. of seats” based on number of people traveling from A to B along with the user. We can also provide optional fields like “Brand” or “Maintenance Certificate” for the user to further filter (secondary filter) his search. Once the user enters all these fields and clicks submit, we display the list of vehicles available based on the search criteria and we can have a radio button that allows the user to select the vehicle and have a button to schedule the ride. When the user clicks “Schedule” button we can populate a table with the ride details like the details of the vehicle selected by the user along with “Source” and “Destination” of the trip.

To determine the current location of the vehicles we can have a setter and getter functions that display the “City” value of the vehicle in our fleet as the current location of all the vehicles is stored in the “City” attribute.