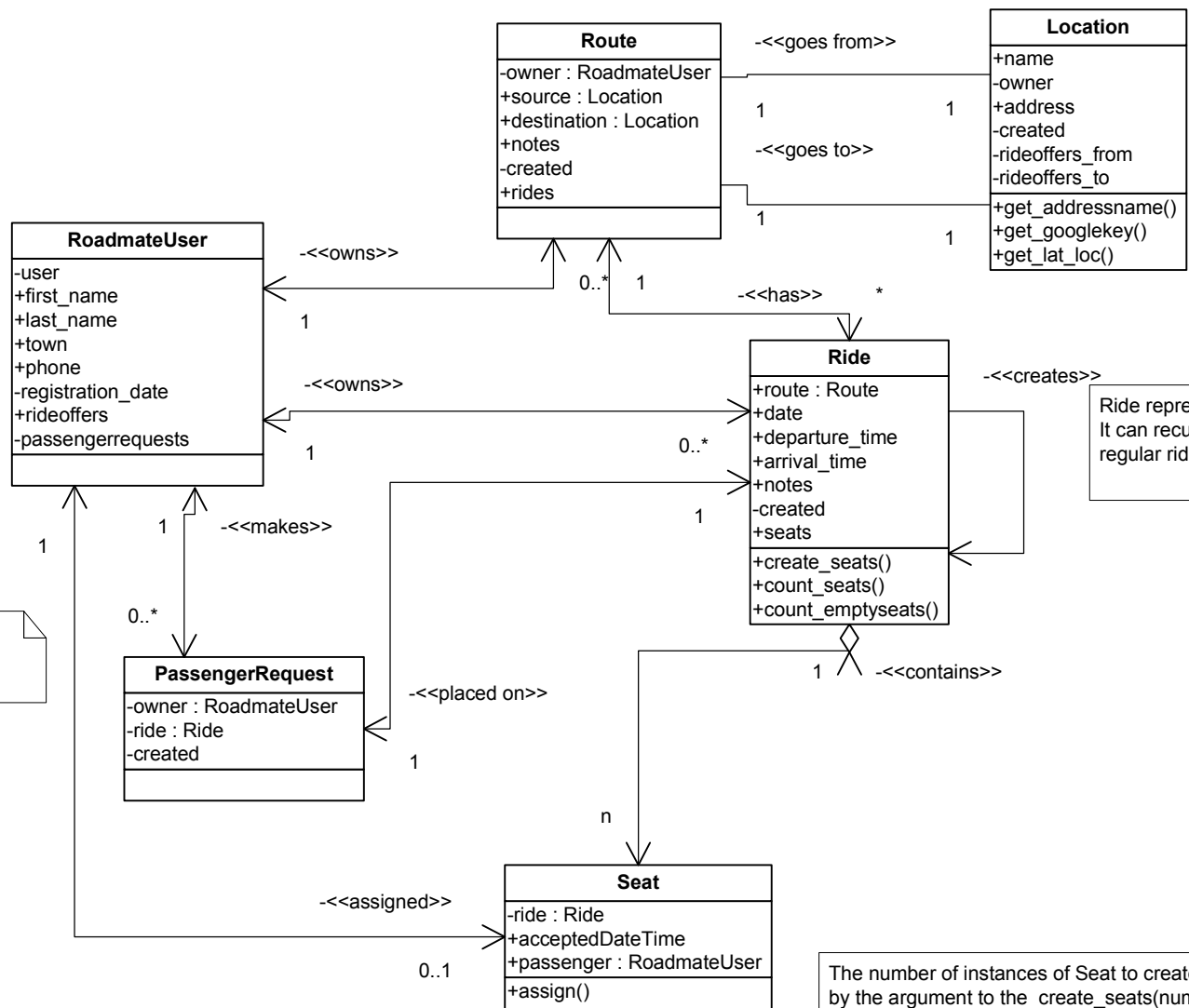Route defines the route the ride will take. It can be created
when the Ride is created, or it can be reused from a previous Ride.
~~Deprecates 'RideOffer' entity~~

Route
-owner : RoadmateUser
+source : Location
+destination : Location
+notes
-created
+rides

-<<goes from>>

Location
+name
-owner
+address
-created
-rideoffers_from
-rideoffers_to
+get_addressname()
+get_googlekey()
+get_lat_loc()

-<<goes to>>

1   1

1

1

RoadmateUser
-user
+first_name
+last_name
+town
+phone
-registration_date
+rideoffers
-passengerrequests

-<<owns>>

0..* 1

-<<has>>   *

1

-<<owns>>

1

0..*

Ride
+route : Route
+date
+departure_time
+arrival_time
+notes
-created
+seats
+create_seats()
+count_seats()
+count_emptyseats()

-<<creates>>

Ride represents the instance of a ride itself.
It can recur, recreating itself periodically, so that
regular rides for commutes can be established.

1

-<<makes>>

1

0..*

PassengerRequest is created by the
RoadmateUser to indicate their request
to be assigned a Seat on a given instance of Ride.

PassengerRequest
-owner : RoadmateUser
-ride : Ride
-created

-<<placed on>>

1

1 -<<contains>>

n

-<<assigned>>

Seat
-ride : Ride
+acceptedDateTime
+passenger : RoadmateUser
+assign()

0..1

The number of instances of Seat to create are defined
by the argument to the create_seats(number_of_seats)
method of Ride.

If the PassengerRequest is accepted, the
PassengerRequest entity is deleted and its
owner is assigned to the Seat. This is handled
by the assign(passenger_request) method of Seat