Data Dictionary

Term	Definition	Attributes	Relationships
Account	The personal area of a user from which individual settings and data can be accessed.	UserID: Unique Identifier for the user UserSettings: Specific configurations made by the user UserHistory: Data related to user's past actions	An account is owned by a user, it can be associated with multiple carpool and delivery requests
Backend	The server-side interface of the application	N/A	The backend processes requests from the frontend
Car details	Information about user's car including licence plate number, car model, and car color.	licencePlate: Licence plate number carColor: Color of the car carModel: Model of the car	Every car is associated with exactly 1 user account
Carpool Request	A request made by a potential passenger to be picked up and dropped off at a specific location by the driver.	userID: Unique Identifier for the passenger requesting requestID: Unique Identifier for each carpool request timestamp: Time of the request pickupLocation: Location of pickup dropoffLocation: Location of dropoff	Every carpool request is associated with exactly 1 user
Data backups	Copies of all user data for recovery in case of data loss	N/A	N/A
Delivery	Ongoing delivery service after the match was confirmed.	deliveryID: id associated with the delivery deliveryRequester: id of the delivery requester deliveryResponder: id of the delivery responder startPoint: start point of the delivery responder endPoint: end point of the delivery responder pickupPoint: start point of delivery requester dropoffPoint: end point of the delivery requester sharedRoute: shared route followed by the responder fare: Calculated fare for the delivery	Each ongoing delivery is related to a delivery. Requester, a delivery responder, start point, end point, pickup point, drop off point, shared route, and fare
Delivery Rating	The review given by a Deliery requester to a delivery man on a scale of 1 to 5, with 1 being the lowest and 5 being the highest possible rating.	deliveryID: id associated with the delivery rating: rating given on a scale of 1-5	Each rating is associated with a specific delivery
Delivery request	A request made by a potential delivery requester for a parcel to be delivered at a specific location by the driver.	userID: Unique Identifier for the user requesting delivery requestID: Unique Identifier for each delivery request timestamp: Time of the request pickupLocation: Location of pickup dropoffLocation: Location of dropoff details: Details of the parcel	Each delivery request is associated with exactly 1 user
Delivery requester	The app user who is requesting for a delivery to be performed	userID: Unique Identifier for the user requesting delivery	Every delivery requester is related to a user

Delivery Responder	The app user who performs the delivery for a delivery requester	userID: Unique Identifer for the user carDetails: Details of the car	All ongoing deliveries have a responder. All responders are associated with a user and a car belonging to that user
Driver	A person who drives a car, and is on his/her own route, but is willing to fetch a passenger to the passenger's specified destination.	userID: Unique Identifer for the user carDetails: Details of the car	All ongoing rides have a driver. All drivers are associated with a user and a car belonging to that user
Driver Rating	The review given by a passenger to a driver after the passenger has been dropped-off, on a scale of 1 to 5, with 1 being the lowest, and 5 being the highest possible rating.	rideID: id associated with the ride rating: rating given on a scale of 1-5	Each Driver Rating is associated with a specific ride
Drop off point	The agreed upon location where the delivery person drops the package, or where the passenger requests to be dropped off.	location: location of the drop off point	Every drop off point is a location
End point	The location where a driver or delivery man ends his/her journey	location: location of the end point	Every end point is a location
Fare	The monetary amount that a passenger/ delivery requester pays for a completed delivery service	value: amount that the person has to pay from: The userID of the person paying the fare to: The userID of the person receiving the fare	Every fare is associated with 2 users: the user paying the fare and the user receiving the fair
Frontend	The client-side interface of the application	N/A	The frontend interacts with the backend
JWT Token	JSON Web Token used for authentication purposes	token: The random token associated with the user signedBy: he system signing the token expiry:	Every JWT Token is associated with a specific user device
Load balancer	Software or hardware that distributes network or application traffic across a number of servers to improve performance	N/A	The Load Balancer may be applied to the backend to balance heavy traffic
Location	The coordinates of a particular place on the map	latitude: Global Latitude Longitude: Global Longitude	A location is associated with carpool and delivery requests.
Match	A driver and a passenger have successfully, and mutually agreed to carpool	requesterID: The ID of the user requesting the service responderID: The ID of the user fulfilling the service serviceType: Whether the service is a delivery or ride serviceID: The ID of the ongoing service	All Matches are related to the user account of the user requesting a service, the user accepting the service and is also related to the service that is initiated when the map happens
Passenger	A person who needs a ride to his/her destination and is willing to hitch a ride with a driver.	userID: userID of the passenger	Every passenger is a user
Passenger Rating	The review given by the driver for a particular passenger after a passenger has been dropped off, on a scale of 1 to 5, with 1 being the lowest, and 5 being the highest possible rating.	rideID: id associated with the ride rating: rating given on a scale of 1-5	Each Driver Rating is associated with a specific ride
Pick-up point	The agreed upon location where the delivery person picks up the package, or where the passenger requests to be picked up.	location: location of the pickup point	Every Pickup point is a location

Profile Picture	An image that represents the user in the application	userID: ID of the user picture: URI to the picture	Every user account has a profile picture
Review	A written feedback given to a user for their quality of service.	serviceID: id associated with the service review: review given	Each review is associated with a specific service
Ride	An ongoing ride that has started after a match between passenger and driver	rideID: id associated with the ride passenger: id of the passenger driver: id of the driver startPoint: start point of the driver endPoint: end point of the driver pickupPoint: start point of passenger dropoffPoint: end point of the passenger sharedRoute: shared route followed by the driver fare: Calculated fare for the ride	Each ride is associated with a passenger, a driver, a start point, an end point, a pickup point, a drop off point, a shared route and a fare
Route	The course taken in getting from a starting point to a destination	start: startLocation end: endLocation route: route object returned by Google	Each route is associated with 2 locations
Shared Route	The least time consuming route taken in which the driver can successfully pick up and drop off passengers at agreed upon locations and then reach their own preferred location	start: start Location for driver end: end Location for driver pickup: Location to pick up passenger dropoff: location to drop off passenger route: route object returned by Google Maps API	Each route is associated with 4 locations
Start point	The location where a driver or delivery man starts his/her journey	location: location of the start point	Every start point is a location
Transaction	Payment of money from one user to another for a service done on the app.	fare: The fare from: The userID of the person paying the fare to: The userID of the person receiving the fare serviceID: The service ID related to the transaction	Each transaction is associated with a fare, the user paying the fair, the user receiving the fare, and the service id that caused this transaction
User	Any person who uses the app. Can be a passenger, driver, delivery requester.	name: Name of the User phoneNumber: phone Number of the user userID: Unique user id associated with the user emailaddress: email of the user password: The password of the user carDetails: The car details of the user	Related to most of the entities described above
Wallet	Digital wallet which is used to pay for transactions within the app.	amount: The amount of money stored in digial wallet userID: The user who owns the wallet	Each wallet is owned by a specific user.