**Project Report**

**Courier service management system**

A customer will use our system to get a delivery boy to come to his house and collect the parcel.

Info provided by customer :

1. Full name\*
2. Phone number\*
3. Email id
4. Dimension of the parcel(approx)\*
5. Weight of the package(approx)\*
6. Delivery location --> street no. , Landmark , City, State

Now, we will decide what type of vehicle to send to the pick-up location based on dimension, weight and location.

(Cash or payment will be payed when parcel is taken, the cost will be calculated automatically )

Parcel is bought to the regional office from where it is shipped, in case when the delivery location is greater then 1000km then parcel will be transported by airways. In all the other cases the vehicle will be decided by the distance, package size and weight.

Customer will be provided a tracking ID, instantly via SMS, so that the customer can track the parcel anytime.

**Classes :** Customer, Employee, Vehicle, parcel, location.

**Sub classes :**

* Vehicle : 1.) Bike.

2.) van.

3.) Mini Truck

* Employee : 1.) office workers {manager, accountant}

2.) Delivery boy.

**Methods :** (not complete)

* Parcel : getID()

trackLive()

getDimensions()

getWeight()

* Vehicle : getCapacity()

getVehicleNo()

getStatus()

* Employee : drivesWhat()

getStatus()

**Tables**

**Office workers**

* empID\* (fk reference to empID of table employees)
* Date\_of\_joining
* Qualification
* supervisorID

**Employee**

* empID\*
* empName
* Address
* phNo
* Salary
* Gender
* Dob

**Office**

* officeID\*(fk reference to officeID of table shipment)
* contactNo
* Address

**Location**

* shipmentID\*(fk reference to shipmentID of table shipment)
* Pickup street
* Pickup city
* Pickup state
* Delivery street
* Delivery city
* Delivery state

**Shipment**

* shipmentID\*
* officeID(fk reference to officeID of table office)
* Delivery\_man\_ID(fk reference to delivery\_man\_ID of table Delivery boy)
* Cost
* Status
* customerID(fk reference to customer Id of table customer)

**Customer**

* customerID\*
* customerName
* phoneNO
* Email
* Password

**Delivery\_boy**

* Delivery\_man\_ID\*
* vehicleID(fk refers to vehicleID of table vehicle)
* Location
* Rating

**parcel**

* parcelID\*(fk refers to table shipment)
* Weight
* Dimension
* Type

**Vehicle**

* vehicleID\*
* registrationNo
* Capacity
* Cost(purchase + maintance)
* Colour
* Distance travelled

**Airplane bike van Mini Truck**

- airplaneID\* - bikeID\* -VanID\* - truckID\*

- max\_speed - max\_speed - max\_speed - max\_speed

- max\_distance - max\_distance - max\_distance - max\_distance

- no\_of\_engine

**Note :**

**fk** = Foreign Key

\* = Primary Key

GROUP MEMBERS (Group 7):

Aayush Prakash Budania 19ucs161 (leader)

Keshav Paliwal 19ucs158

Mohammed Suraj 19ucs157

Bhavya Sehgal 19ucs155