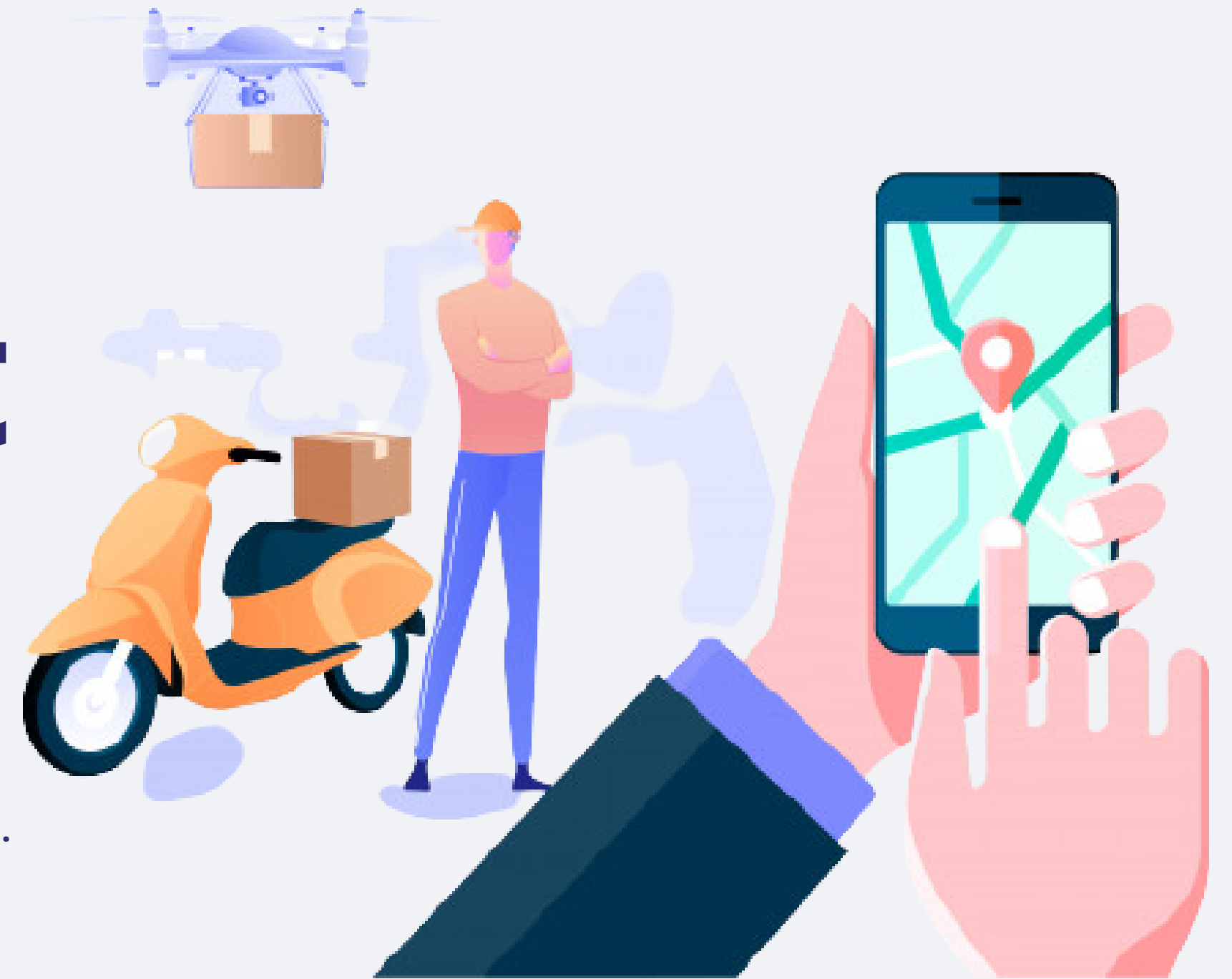# Courier Management System

Simplest solution for Courier & Cargo Tracking Business.

Aim

Courier management system aims at keeping the track of details about day to day courier senders, receivers, courier men, hub details using courier services.

Login section will have login facility for the admin who operates the system and online tracking of consignment and shipping detail for domestic shipping.

While taking orders, it will take the details of sender and receiver.

During billing process, system generates a consignment number for their products.

Through this consignment no. customers will able to track their products from any location using internet.
It will provide status of the product after placing orders.

Process

The flow of Courier Management System
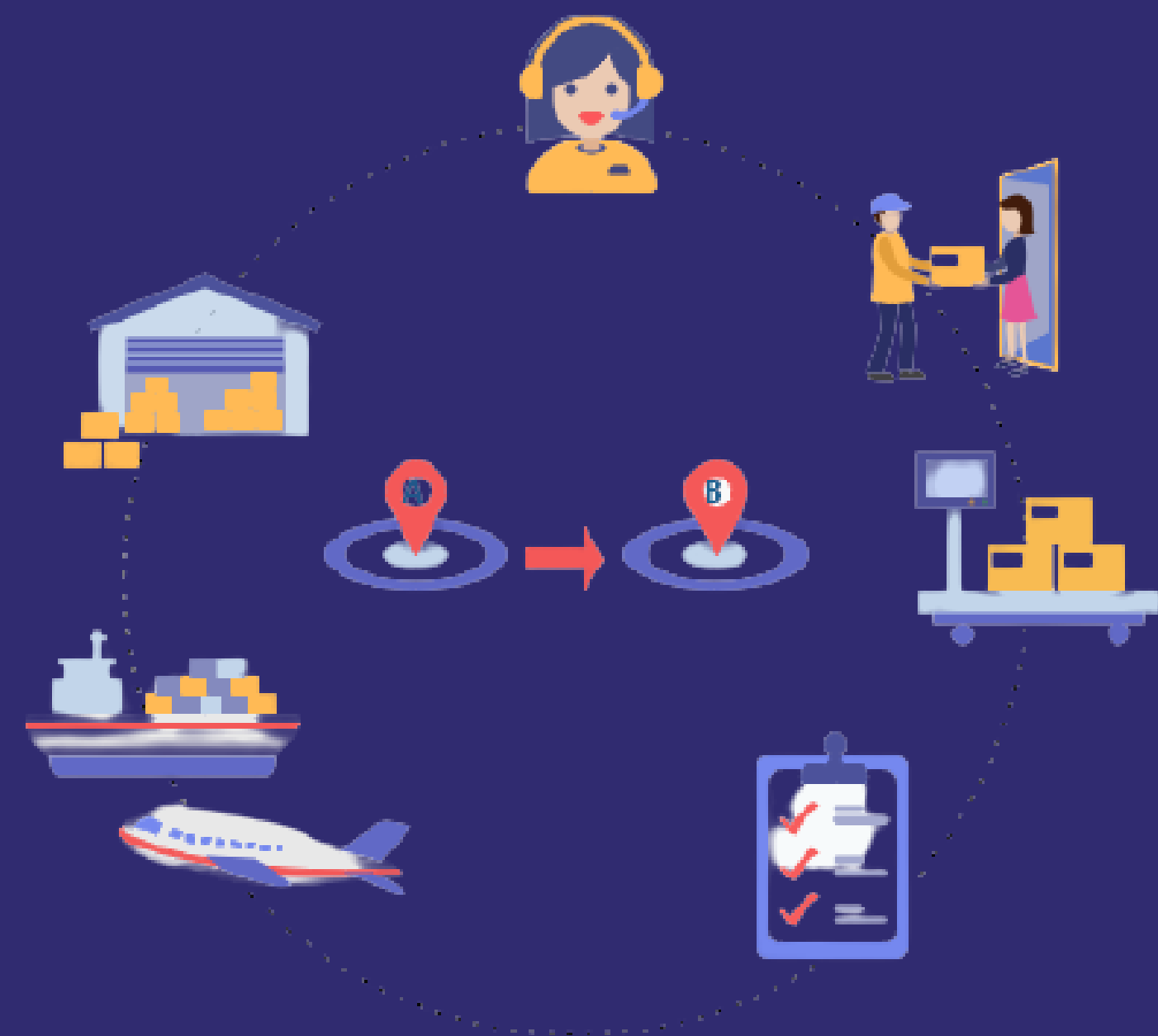
Existing System

Existing system takes a lot of time.

- No automation.
- All the work is done manually.
- In existing system, the sender needs to first send the courier or have to go to the shop for sending the courier and then after some days the courier will be send when the courier man comes and receives the courier.
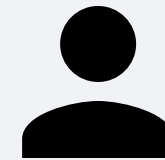
Proposed System

Proposed system has no wastage of time

- Work is automated,
- If someone needs to send any courier than he or she can just login into the panel and send a request to the courier company and then the courier team can themselves contact you.

System Modules

Administrator
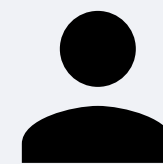
Office Staff

Delivery Boy

Customer

Admin

1. Login

2. Manage Staff
- Add Staff & Courier boy
- Edit/Update Staff & Courier boy
- Disable Staff and courier boy

3. Manage Courier
- View pending couriers
- View delivered couriers

4. Manage Customer
- View Customer details

5. Manage Complaints
- View complaints

6. Manage Leave
- Approve leave
- Reject leave

1. **Login**

2. **Manage Courier**
   - Update courier status
   - Delete Couriers
   - View Pending Couriers
   - View Delivered Couriers

3. **Search by Tracking Id**

4. **Manage Complaints**
   - Update complaints
   - View complaints

5. **Manage Delivery boy**

6. **Apply leave**

Office Staff

Courier Boy

1. Login
2. View Courier
3. Update Courier
4. Apply leave

Customer/User

1. Register & Login

- User can search using consignment tracking details

2. Manage Courier

- Add courier request
- Update/Edit courier request
- Delete courier request
- View request status

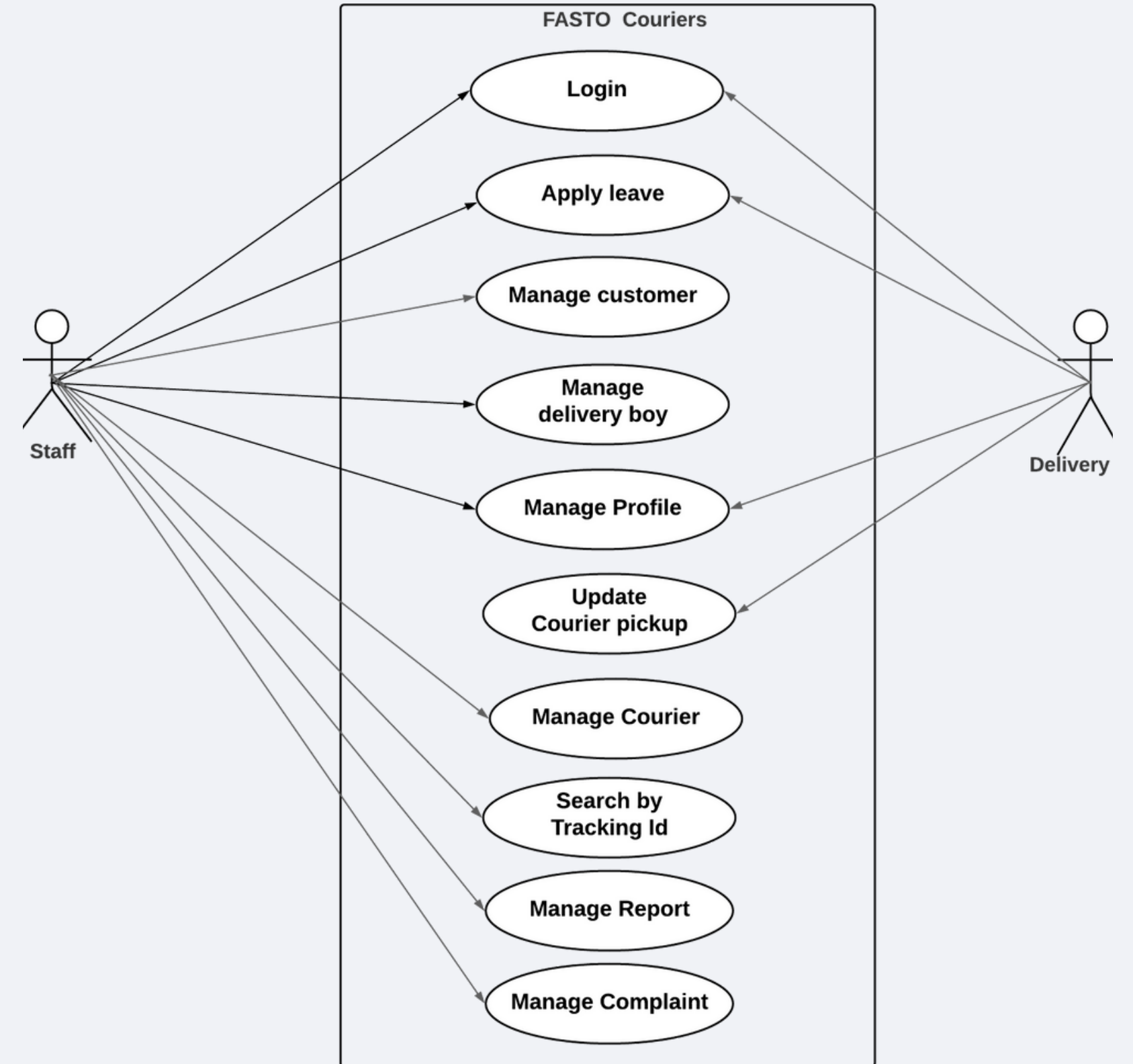## 3. Search by Tracking Id
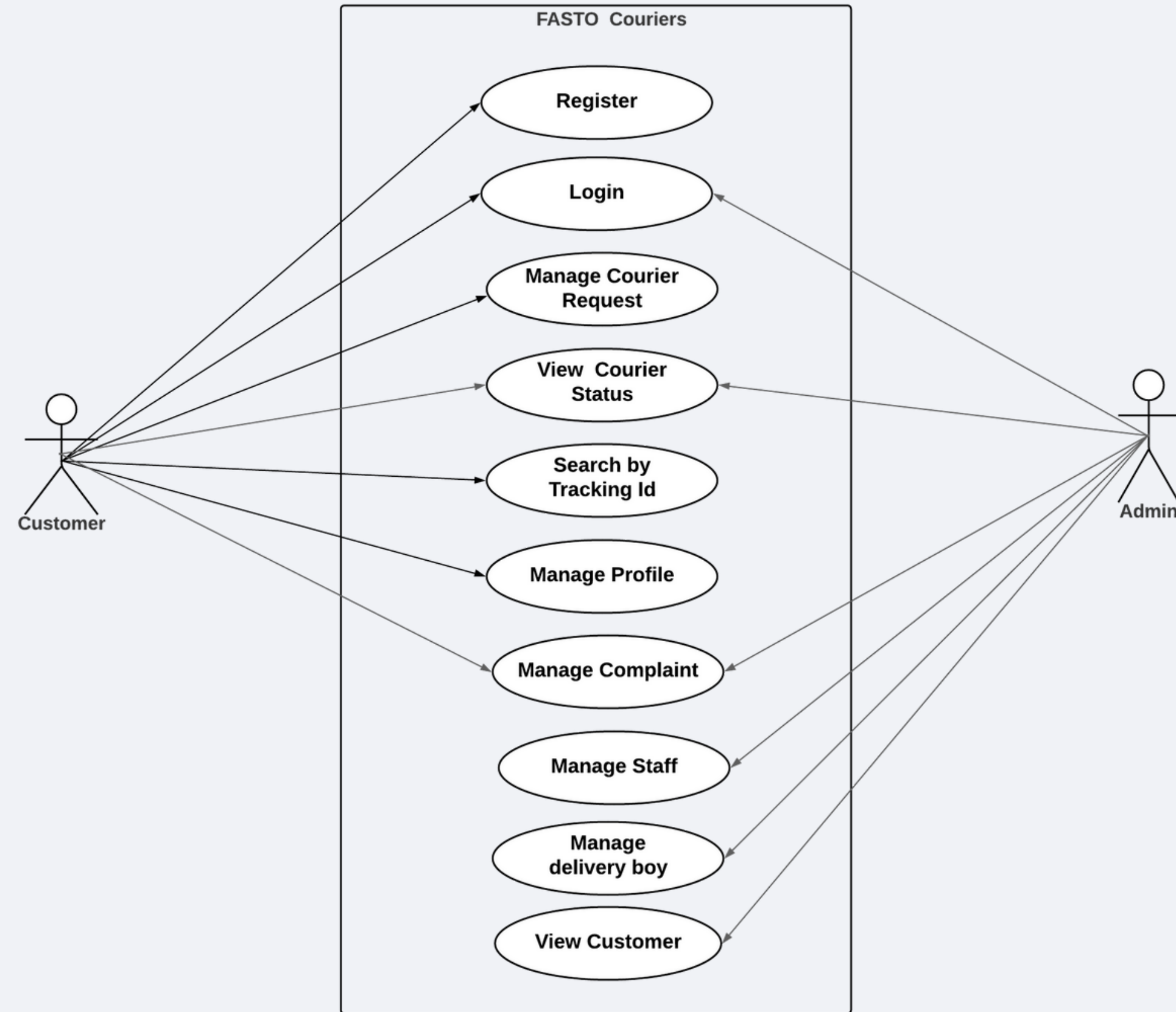
4. Print details

5. Update profile

6. Manage Complaints

- Add complaint
- Edit complaint
- Delete Complaint

UML DESIGN

Usecase

Activity Diagram for Login
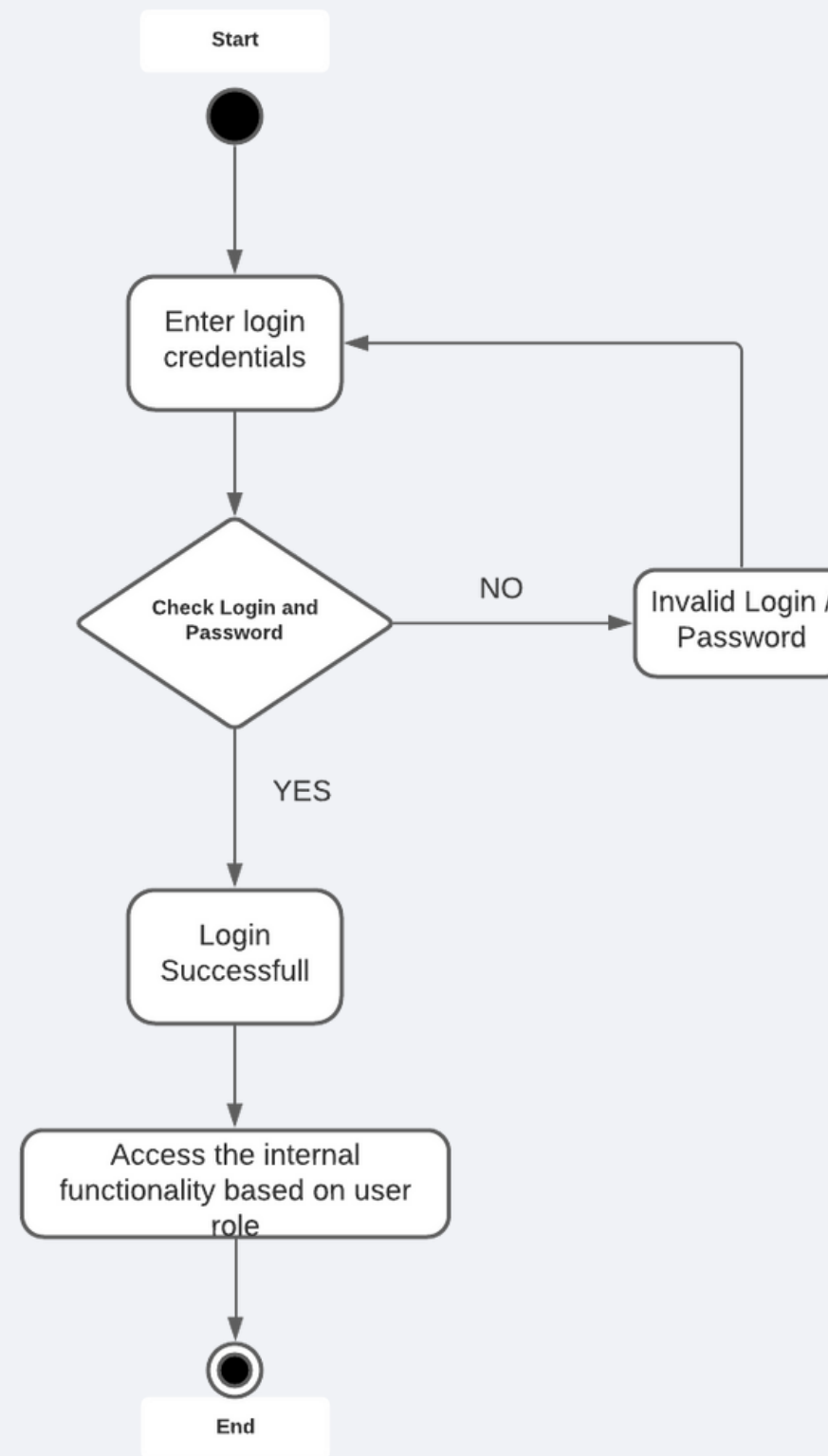
Statechart for Sending Courier
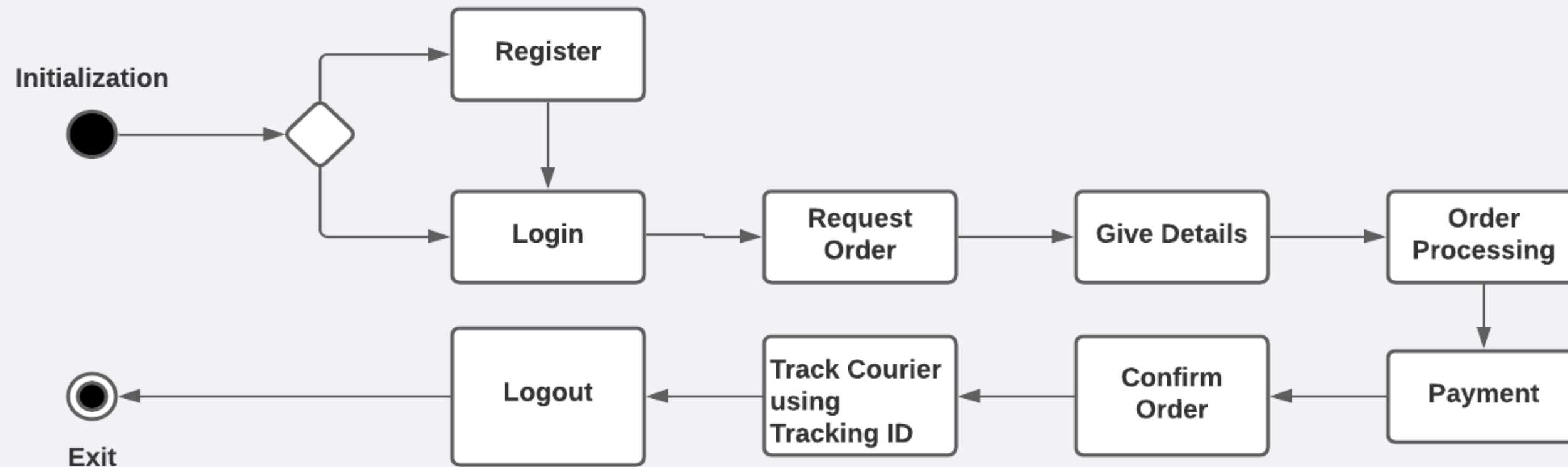
Component diagram
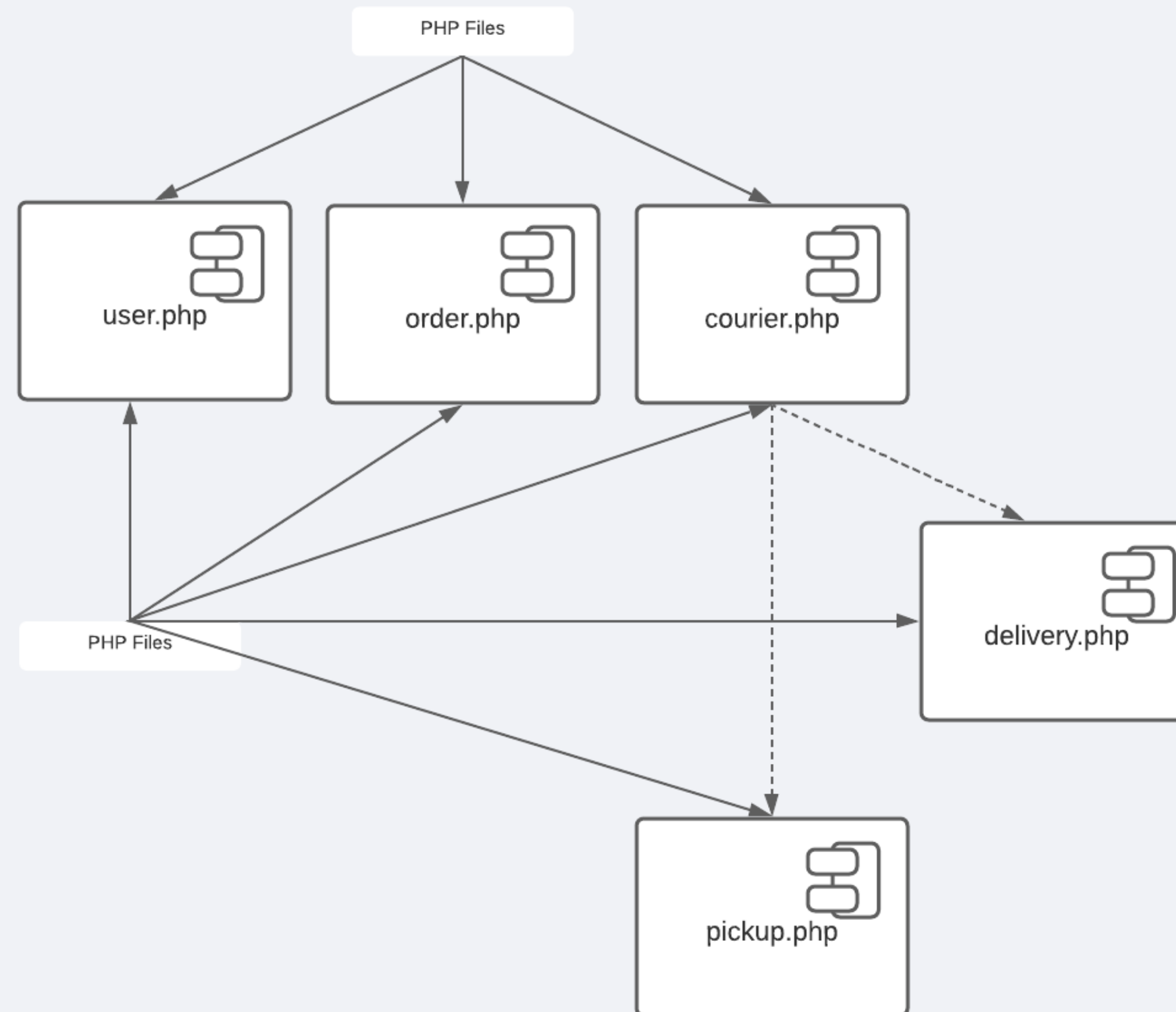
SEQUENCE DIAGRAM for searching courier using Tracking Id
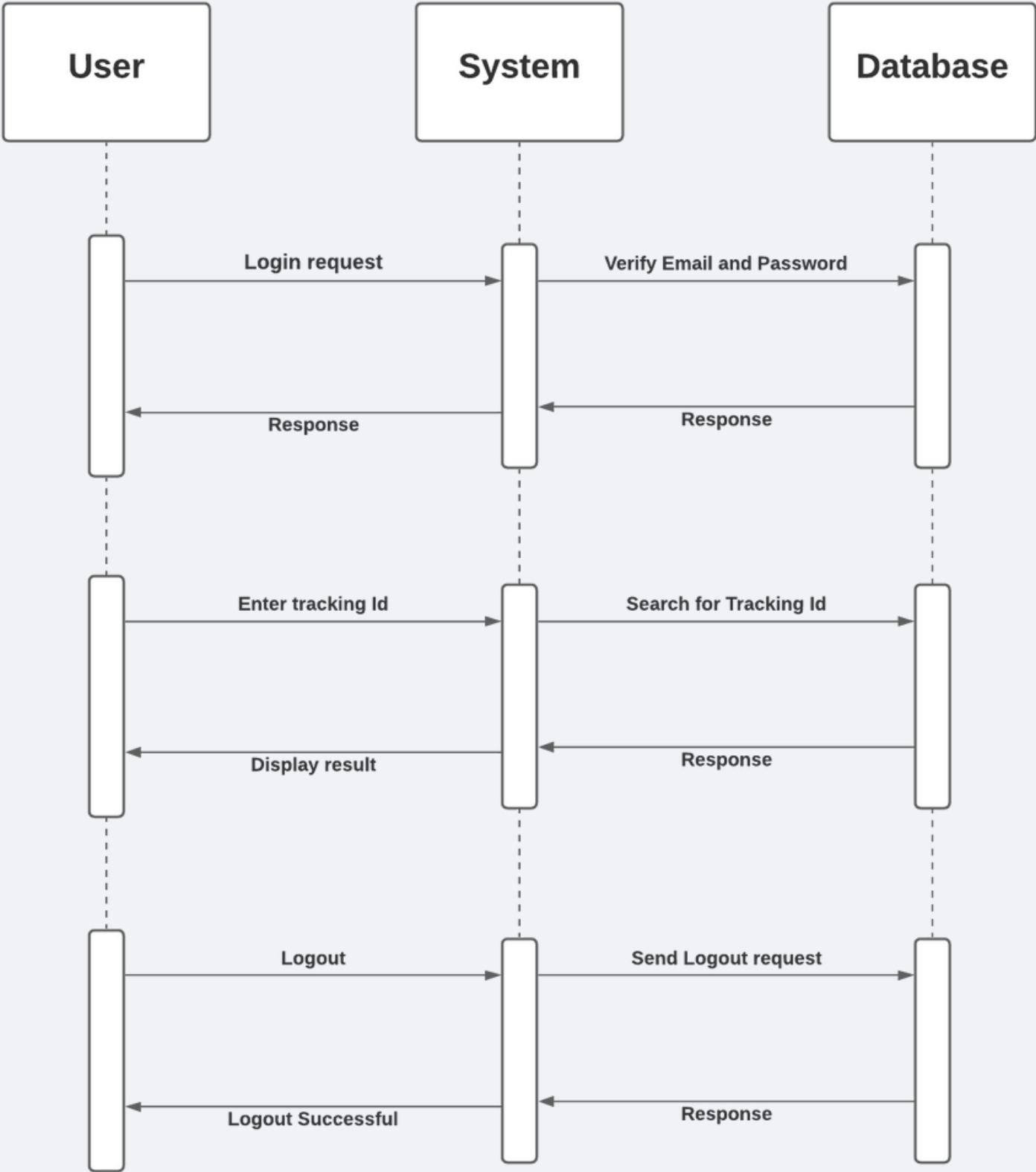
DEPLOYMENT DIAGRAM
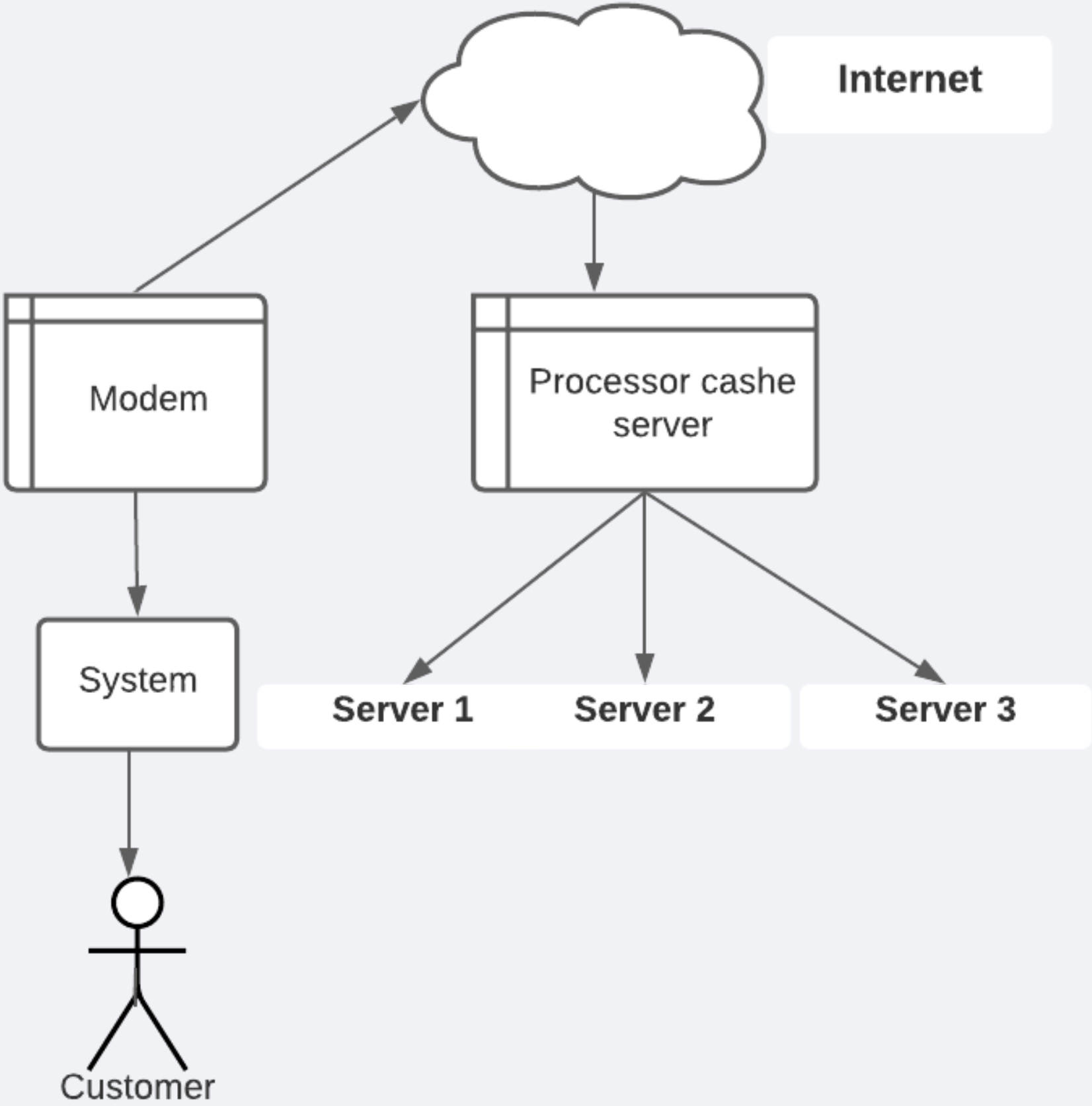
COLLABORATION DIAGRAM

CLASS DIAGRAM

Customer

+ customer_id: int
+ customer_name: string
+ customer_email: string
+ customer_password: string
+ customer_address: string

+ loginUser()
+ registerUser()
+courierRequest()
+resetPassword()
+trackCouurier()
+makePayment()
+giveReviews()

Admin

+ admin_email: string
+ admin_password: string

+ loginAdmin()
+ registerAdmin()
+resetPassword()
+viewRequests()
+editRequest()
+viewReviews()
+answerReviews()
+assignCourierBoy()

Tracking

+tracking_id: int
+status: string

+updateStatus()

CourierBoy

+ courierboy_id: int
+courierboy_name: string
+courierboy_email: string
+ courierboy_password: string
+courierboy_branch:string

+pickupcouriers()

CLASS DIAGRAM

Customer
+ customer_id: int + customer_name: string + customer_email: string + customer_password: string + customer_address: string
+ loginUser() + registerUser() +courierRequest() +resetPassword() +trackCouurier() +makePayment() +giveReviews()

Admin
+ admin_email: string + admin_password: string
+ loginAdmin() + registerAdmin() +resetPassword() +viewRequests() +editRequest() +viewReviews() +answerReviews() +assignCourierBoy()

Tracking
+tracking_id: int +status: string
+updateStatus()

CourierBoy
+ courierboy_id: int +courierboy_name: string +courierboy_email: string + courierboy_password: string +courierboy_branch:string
+pickupcouriers()

TABLE
DESIGN

Table 1: tbl_login

Field Name	Type	Size	Constraints	Description
id	int	10	Primary key	Table id
name	varchar	30		Name
aadhar	varchar	50		Aadhar card Number
email	varchar	30		Email
password	varchar	30		Password
phno	varchar	30		Phone Number

Table 2: tbl_complaints

Field Name	Type	Siz	Constraints	Description
complaint_id	int	10	Primary key	Complaint id
courier_id	int	10	Foreign key	From table tbl_courier
complaint	varcha	30		Customer Complaints
Complaint_status	varchar	50		Complaint status

Table 7: tbl_staff

Field Name	Type	Size	Constraints	Description
staff_id	int	10	Primary key	Staff id
dob	varchar	100		Date of Birth
gender	varchar	100		Gender
doj	varchar	100		Joining date

Table 8: tbl_apply_leave

Field Name	Type	Size	Constraints	Description
Leave_id	int	10	Primary key	Leave id of staff
staff_id	int	10	Foreign key	From table tbl_staff
leave_date	timestamp			Leave date
Reason	varchar	100		Leave Reason

Table 3: tbl_pickupdetails

Field Name	Type	Size	Constraints	Description
pickup_id	int	50	Primary key	Courier id
pickup_loc	varchar	200		Pickup Location
pickup_addr	varchar	200		Pickup address
pickup_ins	varchar	200		Pickup instruction
pickup_sender	varchar	100		Senders name
pickup_addrtype	varchar	100		Pickup Address Type (Home or Work)
pickup_mobile	varchar	100		Pickup mobile number
pickup_date	date			Pickup date
pickup_time	timestamp			Pickup time
status	varchar	100		Pickup Status

Table 4: tbl_deliverydetails

Field Name	Type	Size	Constraints	Description
delivery_id	int	50	Primary key	Delivery id
delivery_loc	varchar	200		Delivery Location
delivery_addr	varchar	200		Delivery address
delivery_ins	varchar	200		Delivery instruction
Delivery_receiver	varchar	100		Receivers name
delivery_addrtype	varchar	100		Delivery Address Type (Home or Work)
delivery_mobile	varchar	100		Delivery mobile number
status	varchar	100		Delivery Status

Table 5: tbl_courier

Field Name	Type	Size	Constraints	Description
courier_id	int	11	Primary Key	Courier id
pickup_id	int	11	Foreign key	Pickup_id
delivery_id	int	11	Foreign key	Delivery id
courier_image	varchar	200		Courier Image
courier_cat	varchar	200		Courier Catagory
courier_weight	int	100		Courier Weight
courier_price	int	100		Courier Price
status	varchar	100		Courier Status

Table 6: tbl_payment

Field Name	Type	Size	Constraints	Description
pay_id	int	10	Primary Key	Payment Id
Courier_id	int	10	Foreign Key	From tbl_courier
card_holder_name	varchar	30		Card_holder_ name
card_no	int	30		Customer email
cvv	varchar	30		Customer password
exp_date	timestam			Date of card expiry
Payment_status	varchar	30		Payment success or failure