Proposal Interaction of the Logistics ERD Diagram

I will describe the proposed interaction between the entities.

• A Delivery can be created with details such as src_address, source_name, destination_address, receiver_name, delivery_status, and partner_id (foreign key). The partner_id is a foreign key that references the Partner entity, which contains information about the delivery partner, such as rider_name and vehicle.

• A Partner can have multiple Deliveries, and each Delivery is associated with only one Partner.

• A Delivery can have multiple Checkpoints, which are recorded in the History table. The History table contains the del_history_id (primary key), description, timestamp, and checkpoint_location. Each Checkpoint is associated with only one Delivery, and each Delivery can have multiple Checkpoints.

• A Delivery can be deleted, and its reference_id is stored in the History table to keep track of deleted Deliveries.

• The Courier Admin entity contains information about the administrator, such as admin_id, username, and password. The Courier Admin can manage Deliveries, Partners, and Checkpoints.

• The authentication of the Courier Admin is done through the username and password fields, which are the primary key of the Courier Admin entity.

• Similarly, the authentication of the Delivery Partner is done through the username and password fields, which are part of the Partner entity.

• Overall, the ERD describes a system for managing deliveries, tracking checkpoints, and handling authentication for the Courier Admin and Delivery Partner.