UML SEQUENCE DIAGRAM 3: WASTE PICKUP & TRACKING

User	Mobile Application	Backend API (FastAPI)	Database (PostgreSQL)	Worker (Waste Collector)

Request Pickup (Location, Waste Type)

createPickup(userid, location, wasteType)

Validate Request

INSERT Pickup

confirmation

Pickup Created

assignPickup(pickupid, details)

Accept Task

Loop [Evere few seconds] Real-Time Tracking

ShareLocation(lattitude, longitude)

INSERT LocationLog

OK

sendLiveUpdate(lattitude, longitude)

updatePickupStatus("Completed")

UPDATE Pickup Status

OK

notifyCompletion()