

Deliverable #3

Company: TranspoLogic

Product: FleetConnect

Group members:

Ahmad Habib 23i-0011

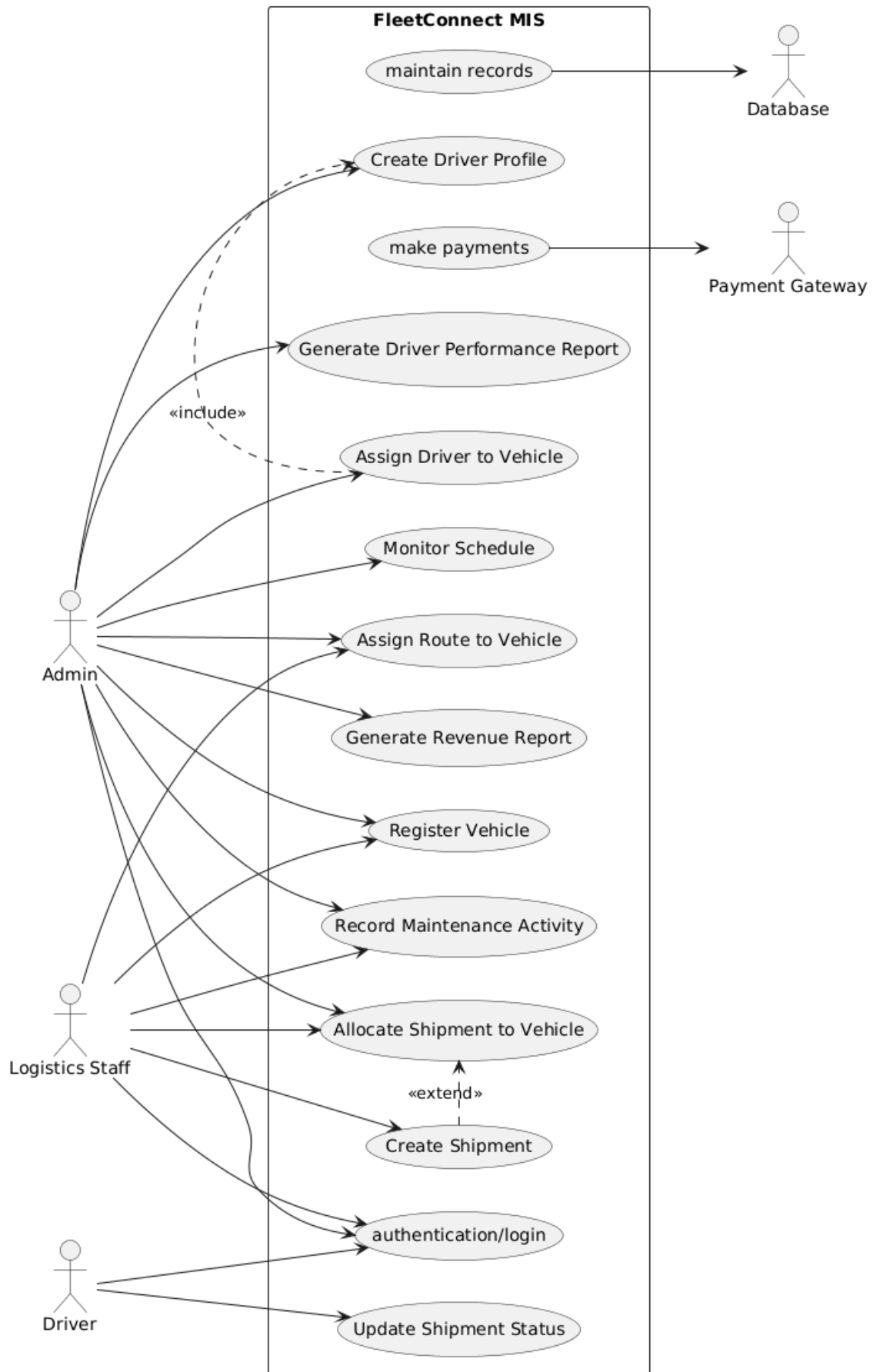
Rayyan Qamar Hashmi 23i-0815

Umer Naseer 23i-0663

Section: CS-5B

FleetConnect MIS- UseCase Diagram

Team:
Ahmad Habib (23i-0011)
Umer Naseer (23i-0663)
Rayyan Qamar (23i-0815)



FleetConnect: Fully Dressed Use Cases

Use Case 1: Register Vehicle

Use Case Name	Register Vehicle	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Admin/Logistics Staff	
Stakeholders and Interests	Admin: wants accurate vehicle records. Company: needs updated fleet availability.	
Preconditions	Admin must be logged in.	
Postconditions	Vehicle is stored in the system with status available.	
Main Success Scenario	Actor Action	System Response
	Admin selects 'Register Vehicle.'	System prompts for vehicle details.
	Admin enters registration info and submits.	System stores vehicle in database.
Extensions	Missing/invalid data → system requests correction.	

Use Case 2: Create Driver Profile

Use Case Name	Create Driver Profile	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Admin	
Stakeholders and Interests	Drivers: want their credentials stored. Company: requires valid driver details.	
Preconditions	Admin must be logged in.	
Postconditions	Driver profile is created in system.	
Main Success Scenario	Actor Action	System Response
	Admin selects 'Create Driver Profile.'	System shows profile form.
	Admin enters driver info (license, hours).	System validates and saves profile.
Extensions	License invalid → system rejects entry.	

Use Case 3: Assign Driver to Vehicle

Use Case Name	Assign Driver to Vehicle	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Admin	
Stakeholders and Interests	Driver: wants fair workload. Admin: needs correct allocation.	
Preconditions	Driver and vehicle must exist and be available.	
Postconditions	Driver assignment stored in database.	
Main Success Scenario	Actor Action	System Response
	Admin selects driver and vehicle.	System checks availability.
	Admin confirms assignment.	System stores assignment.
Extensions	Vehicle under maintenance → assignment not allowed.	

Use Case 4: Create Shipment

Use Case Name	Create Shipment	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Logistics Staff	
Stakeholders and Interests	Customer: wants shipment delivered. Company: wants cargo records.	
Preconditions	System must have available vehicle.	
Postconditions	Shipment record created.	
Main Success Scenario	Actor Action	System Response
	Staff selects 'Create Shipment.'	System shows shipment form.
	Staff enters cargo details.	System saves shipment.
Extensions	No available vehicles → notify staff.	

Use Case 5: Allocate Shipment to Vehicle

Use Case Name	Allocate Shipment to Vehicle	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Admin/Staff	
Stakeholders and Interests	Drivers: want clear assignments. Company: wants efficient vehicle usage.	
Preconditions	Shipment and vehicle must exist.	
Postconditions	Shipment assigned to vehicle.	

Main Success Scenario	Actor Action	System Response
	Admin selects shipment.	System displays available vehicles.
	Chooses vehicle.	System confirms allocation.
Extensions	Vehicle capacity exceeded → system prevents allocation.	

Use Case 6: Update Shipment Status

Use Case Name	Update Shipment Status	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Driver	
Stakeholders and Interests	Customer: wants visibility of shipment. Admin: monitors delivery progress.	
Preconditions	Shipment must be active.	
Postconditions	Status updated (in-transit, delivered).	
Main Success Scenario	Actor Action	System Response
	Driver logs in.	System shows active shipments.
	Driver updates shipment status.	System stores update.
Extensions	Invalid shipment ID → error message.	

Use Case 7: Assign Route to Vehicle

Use Case Name	Assign Route to Vehicle	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Admin/Staff	
Stakeholders and Interests	Driver: needs correct route. Company: requires efficient scheduling.	
Preconditions	Vehicle and route exist.	
Postconditions	Vehicle is linked to route.	
Main Success Scenario	Actor Action	System Response
	Admin selects vehicle.	System retrieves available routes.
	Admin assigns route.	System updates record.
Extensions	Route not found → system error.	

Use Case 8: Monitor Schedule

Use Case Name	Monitor Schedule	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Admin	
Stakeholders and Interests	Admin: tracks ongoing trips. Customer: expects timely delivery.	
Preconditions	Trips scheduled.	
Postconditions	Schedules displayed.	
Main Success Scenario	Actor Action	System Response
	Admin opens 'Monitor Schedule.'	System shows current trip schedules.
Extensions	No trips scheduled → display empty.	

Use Case 9: Record Maintenance Activity

Use Case Name	Record Maintenance Activity	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Admin/Staff	
Stakeholders and Interests	Admin: keeps vehicles safe. Company: wants minimized downtime.	
Preconditions	Vehicle exists.	
Postconditions	Maintenance log updated.	
Main Success Scenario	Actor Action	System Response
	Staff selects vehicle.	System shows maintenance form.
	Records maintenance work.	System saves record.
Extensions	Invalid entry → request correction.	

Use Case 10: Generate Revenue Report

Use Case Name	Generate Revenue Report	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Admin	
Stakeholders and Interests	Admin: wants financial data. Company: needs revenue tracking.	
Preconditions	Financial data must exist.	
Postconditions	Report generated.	
Main Success Scenario	Actor Action	System Response

	Admin selects 'Generate Revenue Report.'	System compiles data.
	Admin views report.	System displays it.
Extensions	Missing data → mark report incomplete.	

Use Case 11: Generate Driver Performance Report

Use Case Name	Generate Driver Performance Report	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Admin	
Stakeholders and Interests	Admin: evaluates driver performance. Drivers: want fair assessment.	
Preconditions	Driver data must exist.	
Postconditions	Report generated.	
Main Success Scenario	Actor Action	System Response
	Admin selects driver.	System compiles trip and workload history.
	Admin requests report.	System displays report.
Extensions	No data → notify admin.	

Use Case 12: Authentication

Use Case Name	Authentication	
Scope	FleetConnect MIS	
Level	User Goal	
Primary Actor	Admin, Logistic Staff, Drivers	
Stakeholders and Interests	All above mentioned entities need to login inorder to operate the system.	
Preconditions	User needs to have internet and device to access the system	
Postconditions	User logged in.	
Main Success Scenario	Actor Action	System Response
	User enters credentials	System accesses the database to check for pre-existing records.
		System displays dashboard.
Extensions	No data → show error.	