Traffic Management System 2.0

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Tasks

I	Rewrite Register Vehicle and Logging
II	Violation Detection Procedure
III	Issue Fine and Related Procedure
IV	Python Scripts to Simulate Each Process

Class Diagram

Plates
- Number
- Status

Owner
- Owner_name
- Owner_age
- Owner_phone
- Owner_email
- Owner_address
- Owner_driver_license

Junction
- Address
- Light

Vehicle
- Owner
- Color
- VType
- Speed
- Condition
- PlateNumber

Log
- Junction
- Vehicle_PlateNumber
- Vehicle_Speed
- Date
- Time

Fine
- fine
- owner
- status
- date

DriverLicense
- Owner
- License_Number
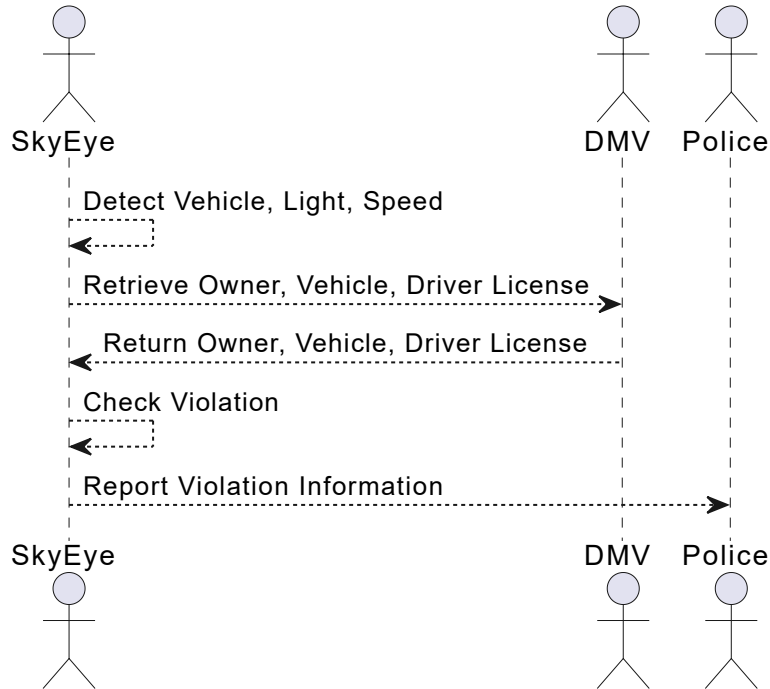- Issue_Date
- Expire_Date
- Status
- Score
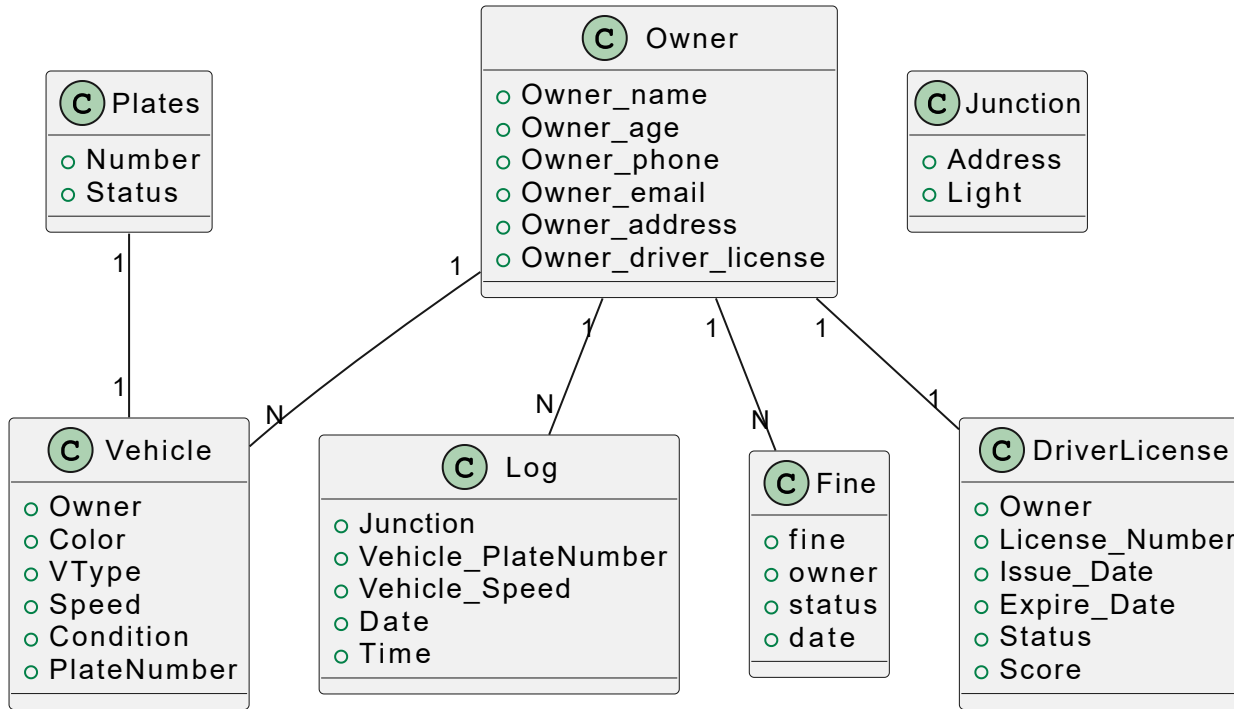
Part I Detect_Violation

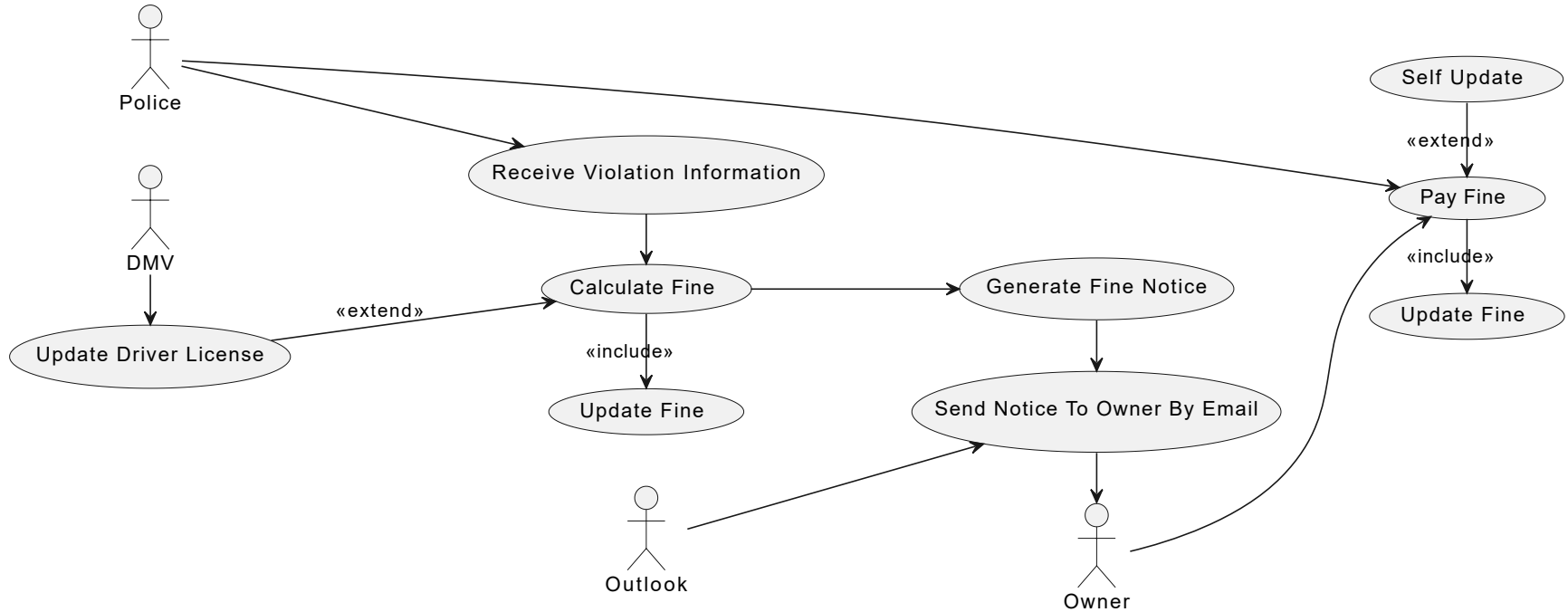## Usecase Diagram
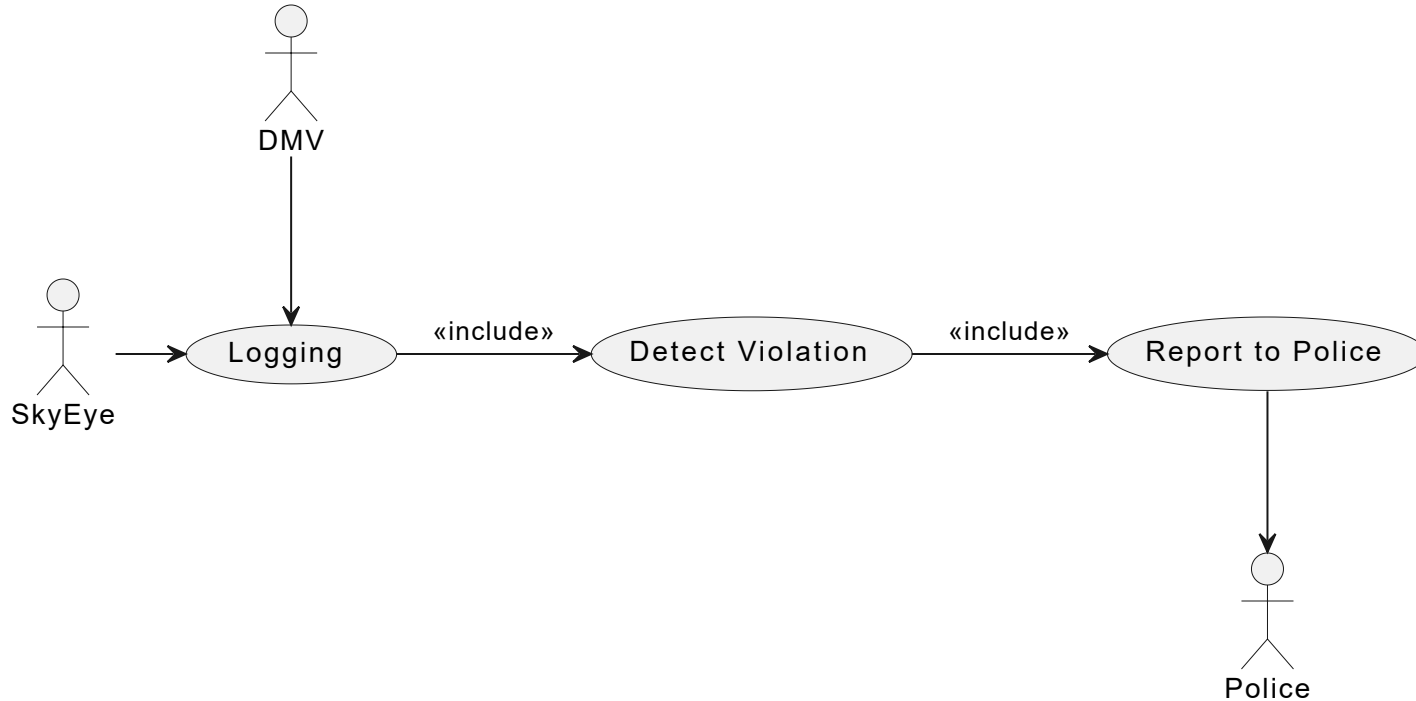
Detect_Violation: Sequence Diagram

Violations

1. Illegal Driving
2. Running Red Light
3. Fake Plate Number
4. Illegal Parking
5. Different Levels of Speeding

Part II Issue Fine

Usecase Diagram

Issue Fine: Sequence Diagram

SkyEye	Police	DMV	Outlook	Owner

SkyEye → Police: Send Violation Information

Police → DMV: Retrieve Owner, Vehicle, Driver License

DMV → Police: Return Owner, Vehicle, Driver License

Police → Police: Calculate Fine

Police → DMV: Update Driver License

Police → Police: Generate Fine Notice

Police → Outlook: Send request

Outlook → Owner: Send Notice Email

Owner → Police: Pay Fine

Police → Police: Update Fine

Police → Police: Self Update