

Vehicle Registration System - Week 2

Abdellah Sabhi
Mario Ueseka
Wenhao Xie



Project Overview

- **Main Task:**

Developing a web-based vehicle registration system that allows users to register vehicles, license plate recognition, and manage cities and junctions.

- **Week 2 Objective:**

Associate logged plates with violations.

Store registered vehicles in the database and display them in the frontend

Features:

Vehicle Registration

Implemented structured number plate format.

License plates follow a standardized European-style format

Added a success message when a vehicle is registered.

Allowed city input as free text instead of a dropdown.

- **License Plate Logging:**

Allowed selection of predefined junctions for vehicle tracking.

Improved user experience by removing redundant logs.

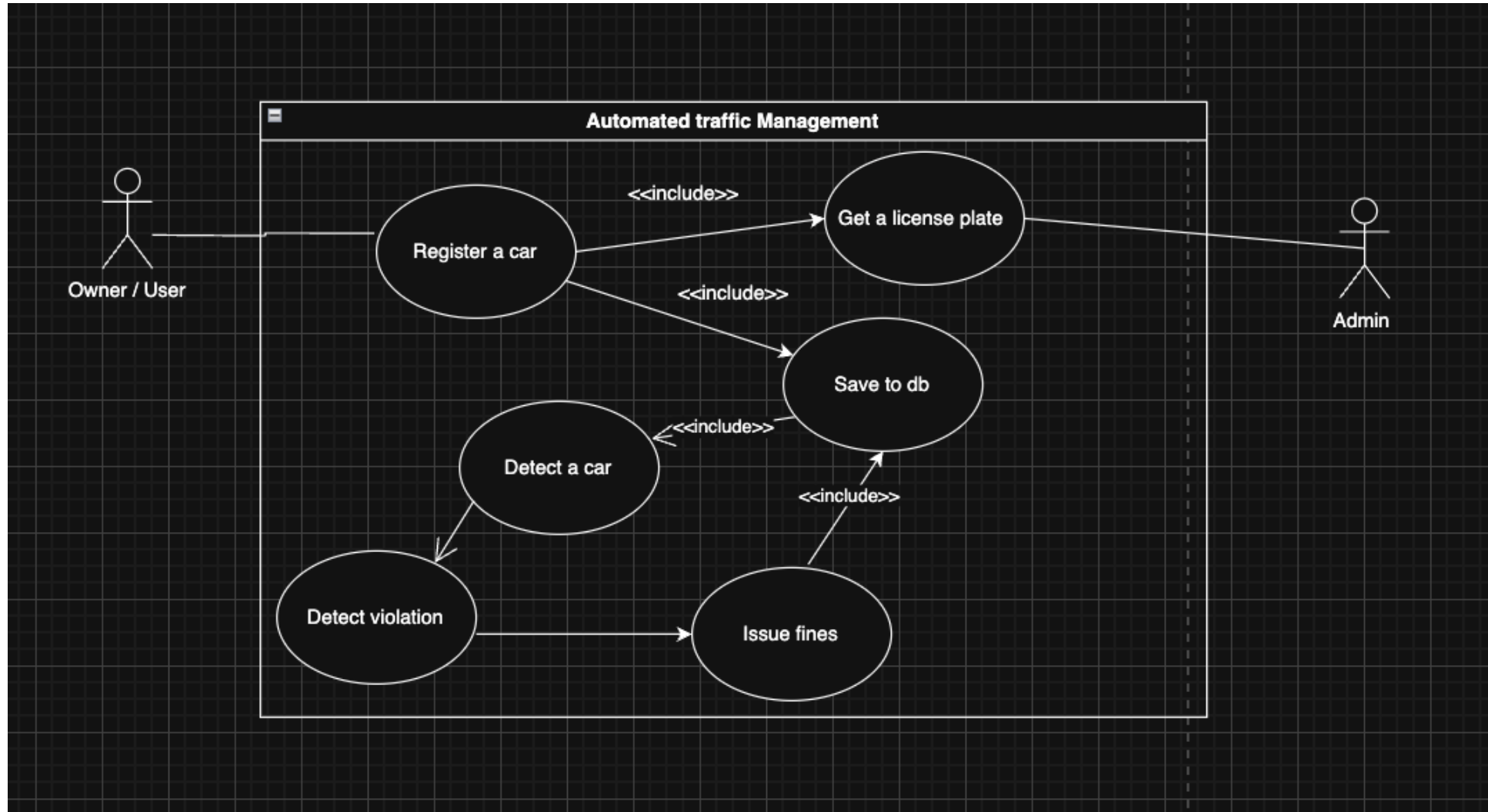
- **Admin Management Enhancements:**

Allowed the admin to define different traffic violations and fine amounts.

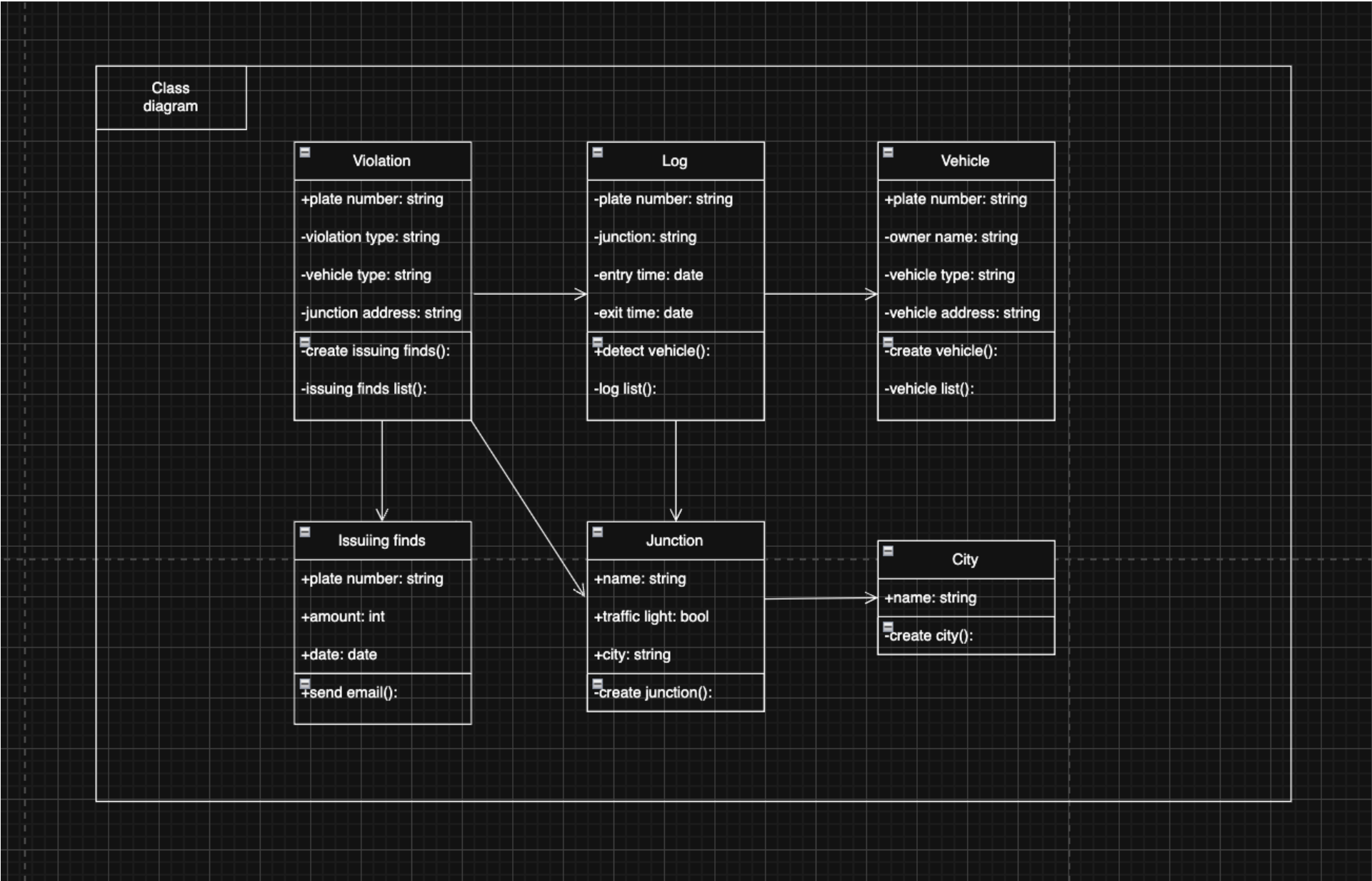
- **Frontend Improvements**

Implemented success/error messages for better user feedback.

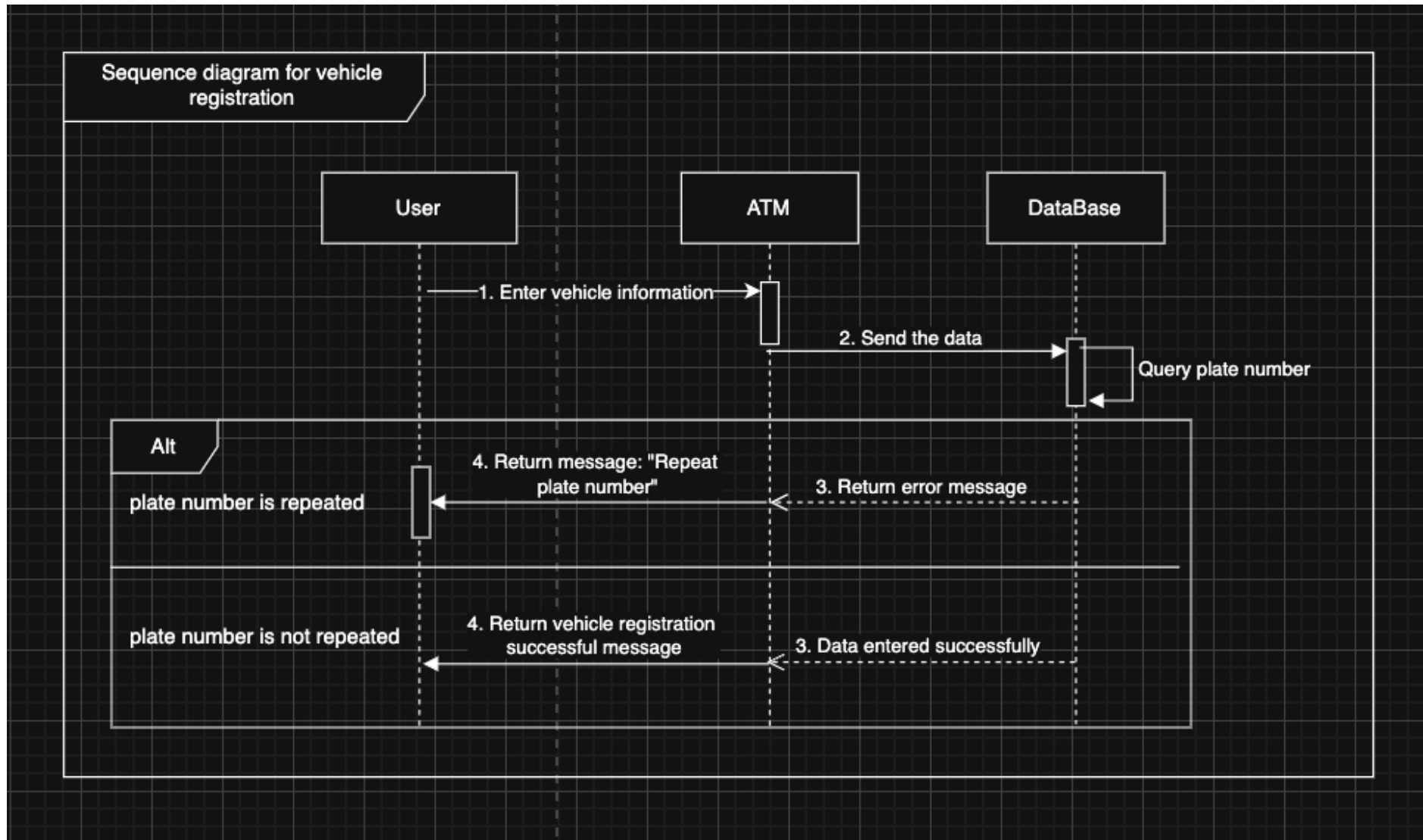
Use case Diagram:



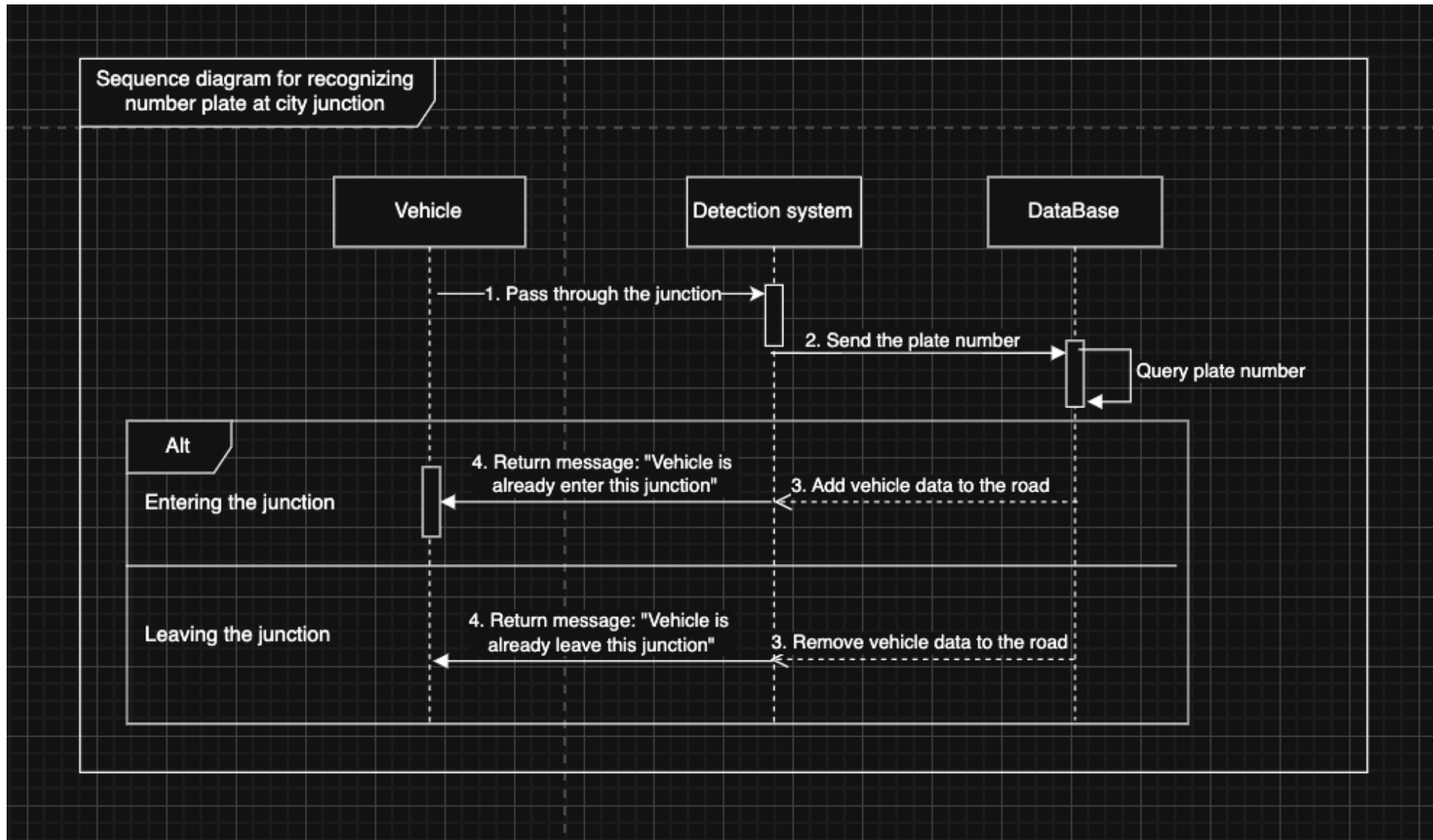
Class diagram



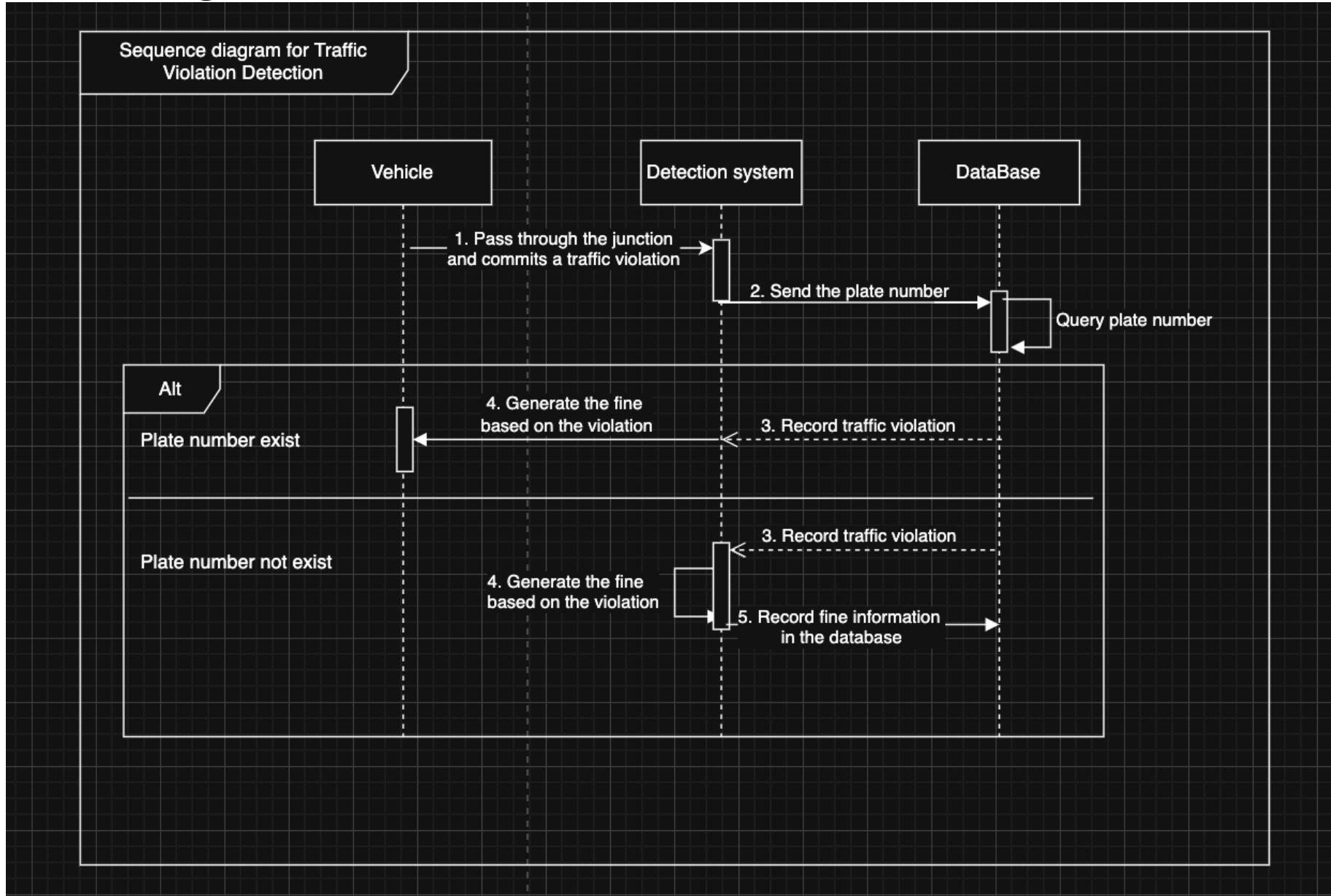
Sequence diagram



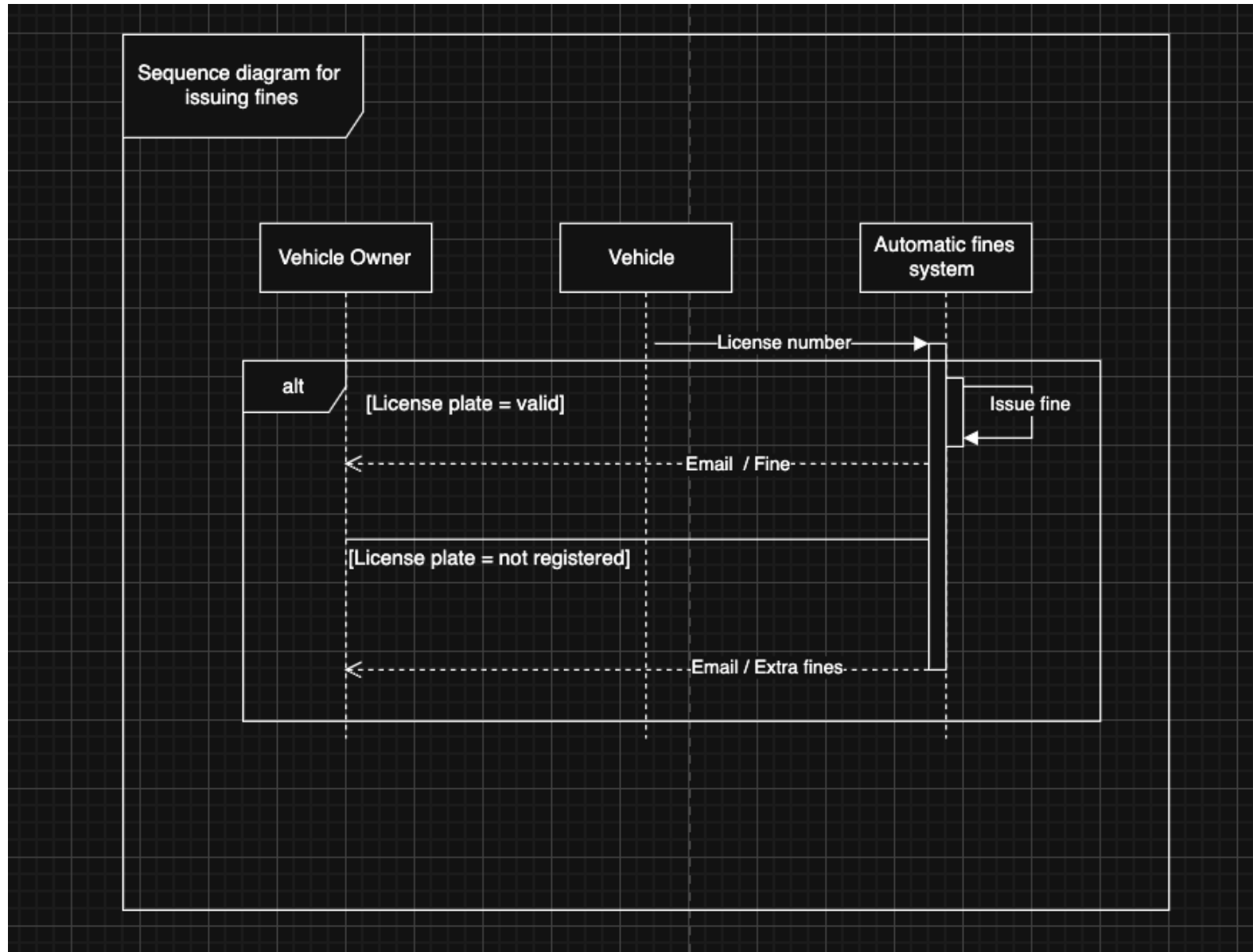
Sequence diagram



Sequence diagram



Sequence diagram



Challenges

- No challenges faced except some migration issues.
- Vehicle registration issues.

Next Steps

- Implement authentication (User Login & Admin Roles).
- Add filtering and search options for vehicles and logs.