Readme

**Prerequisites**

1.Python: Make sure Python is installed (Python 3.8 or higher is recommended).

2.Git: Ensure Git is installed for cloning the code from GitLab.

3.Virtualenv (optional): Used to create a virtual environment to avoid dependency conflicts.

**Installation Steps**

1. Clone the Project

First, clone the project code from the GitLab repository.

# 替换为你的 GitLab 项目地址

Git clone [git@stgit.dcs.gla.ac.uk:](mailto:git@stgit.dcs.gla.ac.uk:)programming-and-systems-development-m/

2024/lb01-03/e-vehicle-share-system.git

cd your-django-project

2. Create a Virtual Environment

To keep the project dependencies isolated, it's recommended to use virtualenv to create a virtual environment.

# Install virtualenv if not already installed

pip install virtualenv

# Create a virtual environment

virtualenv venv

# Activate the virtual environment

# On Windows

.\venv\Scripts\activate

# On macOS/Linux

source venv/bin/activate

3. Install Dependencies

The project usually includes a requirements.txt file that lists all required dependencies. Run the following command to install them:

pip install -r requirements.txt

4. Apply Database Migrations

Initialize the database to ensure that all tables are created. Run:

python manage.py makemigrations

python manage.py migrate

python manage.py loaddata main\_system\_data.json

5. Start the Development Server

Run the following command to start the Django development server:

python manage.py runserver

In your browser, go to http://127.0.0.1:8000 to view the project.

**Instructions for Installing and Configuring Grafana on Mac / Windows**

1.Quick Installation via Terminal or installer

For Mac  
Run the following commands to download Grafana and specify the installation path:

curl -O https://dl.grafana.com/enterprise/release/grafana-enterprise-11.3.0.darwin-amd64.tar.gz

tar -zxvf grafana-enterprise-11.3.0.darwin-amd64.tar.gz

For Windows

Download the installer from the website:

https://grafana.com/grafana/download?pg=get&plcmt=selfmanaged-box1-cta1&platform=windows

Once downloaded, you need to replace two files within the installation directory:

～Replace defaults.ini located in the conf folder.

～After the initial login to localhost:3000, replace the grafana.db file found in the data folder.

1. Start Grafana from the Installation Directory

For Mac:

Navigate to the Grafana installation directory and start the Grafana server with the following commands:

cd /Users/zhanjie/grafana/grafana-enterprise-11.3.0

./bin/grafana-server

After starting, log in to localhost:3000 and change the initial password.

For Windows:

Press Win + R and Type services.msc in the Run dialog:

This will open the Windows “Run” dialog.Press Enter or click OK to open the Windows Services manager.

Find the Grafana Service

**Start or Manage the Grafana Service**:

* 1. Right-click on the Grafana service and choose **Start** to run it if it’s not already running.
  2. You can also select **Properties** and set the **Startup type** to **Automatic** if you want Grafana to start automatically when Windows starts.

After starting the service, Grafana will be accessible at http://localhost:3000 in your web browser.

3.Replace grafana.db with Project Database

Replace the default grafana.db file with the project's grafana.db to apply your project-specific configurations.

* 1. Terminate the Initial Grafana Process

For Mac:

Use the following command to find the process ID (PID) of the Grafana server running on port 3000:

lsof -i :3000

Then, terminate the process using:

kill -9 <PID>

For Windows:

· Open the **Services** window by pressing Win + R, typing services.msc, and pressing **Enter**.

· · In the list of services, scroll down and locate the **Grafana** service.

· · Right-click on the **Grafana** service.

· · In the context menu that appears, select **Restart**.

5.Configure SQLite3 Data Source in Grafana

Log back into localhost:3000 in your browser with using our account to log in. In Grafana, go to Connections and select Add new connection. Search for and install SQLite3.

Once installed, open Data Sources and select the SQLite3 source you added. Update the path field to point to the location of your project’s SQLite database file.

These steps will complete the installation and configuration of Grafana with your project-specific settings on Mac.

