**Traffic Violation Management System   
 -By Murali Krishna M and Mohan Raji P**

**Installation and Setup Guide:**

**Introduction**

This guide will help you install and set up the Traffic Violation Management System on your local device. Follow the steps carefully to ensure a successful installation.

**Prerequisites**

Before proceeding, ensure you have the following installed:

* A web browser (Chrome, Firefox, or Edge)

**Step 1: Download and Install XAMPP**

1. Download **XAMPP** from <https://www.apachefriends.org>.
2. Install XAMPP following the on-screen instructions.
3. Open the **Start Menu**, search for **XAMPP Control Panel**, and open it.
4. In the XAMPP Control Panel, locate **Apache** and **MySQL** in the service list.
5. Click the **Start** button next to **Apache**.
6. Click the **Start** button next to **MySQL**.
7. Ensure both services turn **green**, indicating they are running.

**Step 2: Download the Project**

1. Open Command Prompt (CMD) or Terminal.
2. Navigate to the htdocs directory:

cd C:\xampp\htdocs\

1. Clone the project repository using Git:

git clone https://github.com/MurALikrisha-M/TrafficViolationManagement.git

*Alternatively, if you don’t have Git installed, download the ZIP file from the repository and extract it to C:\xampp\htdocs\TrafficViolationManagement.*

**Step 3: Set Up the Database**

1. Open your browser and go to **http://localhost/phpmyadmin/**.
2. Click on **New** and create a database named traffic\_violation\_db.
3. Open the extracted project folder and locate the SQL code.txt file inside.
4. Open the SQL code.txt file and **copy the entire SQL script**.
5. In phpMyAdmin, select the traffic\_violation\_db database from the left-side navigation panel.
6. Click on the **SQL** tab at the top navigation bar.
7. Paste the copied SQL script into the SQL query box.
8. Click **Go** to execute the query and create the necessary tables.

**Step 4: Start the apache and sql**

1. Search the start menu for “Xampp” and open it.
2. Click start near the apache and SQl.

**Step 5: Running the Project**

1. Open your browser and enter the following URL:

http://localhost/TrafficViolationManagement/login.html

1. You should now see the **Login Page**.
2. If you do not have an account, click **Sign Up** to create a new one.
3. After logging in, users can perform the required actions:
   * **Officers** can add and view violations.
   * **Civilians** can pay fines and check their details.

**Troubleshooting**

* **Apache or MySQL not starting?**
  + Check if ports **80** (Apache) and **3306** (MySQL) are free. If not, change them in xampp/apache/conf/httpd.conf and xampp/mysql/bin/my.ini.
  + Run XAMPP as an administrator.
* **Database errors?**
  + Ensure the database name in config.php matches traffic\_violation\_db.
  + Re-import the SQL file into phpMyAdmin.
* **Page not loading?**
  + Check if XAMPP’s Apache and MySQL services are running.
  + Make sure the project folder is inside C:\xampp\htdocs\.

**Conclusion**

Congratulations! You have successfully installed and set up the Traffic Violation Management System. You can now use the system for traffic violation management tasks.

For any issues, feel free to contact the [murali.krishna1591@gmail.com](mailto:murali.krishna1591@gmail.com) / [mohandinesh680@gmail.com](mailto:mohandinesh680@gmail.com)

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