



RAJALAKSHMI
ENGINEERING COLLEGE
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

TRAFFIC MANAGEMENT SYSTEM

A MINI PROJECT REPORT

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IN

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RAJALAKSHMI ENGINEERING COLLEGE (AUTONOMOUS)

THANDALAM

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BONAFIDE CERTIFICATE

Certified that this project report "**TRAFFIC MANAGEMENT SYSTEM**" is the bonafide work of "**KARTHIK C (231501073), LOKESH R (231501087), LENA VISHAL (231501083)**"

who carried out the project work under my supervision.

Submitted for the Practical Examination held on _____

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INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

The **Traffic Police Management System** is a comprehensive software solution aimed at automating the process of traffic violation management within a police department. Its primary purpose is to assist traffic police officers in efficiently issuing traffic violation invoices, managing records of offenses, tracking fine payments, and generating detailed reports. The system ensures seamless communication between officers and violators, reducing manual errors, paperwork, and the chances of disputes.

It is an innovative solution designed to modernize traffic law enforcement processes. It automates tedious tasks such as invoicing, payment tracking, and reporting, enhancing the efficiency of police departments. By reducing manual paperwork, improving data accuracy, and offering detailed insights, this system not only aids traffic officers in their daily duties but also contributes to better law enforcement practices and improved road safety. Through its user-friendly interface and robust backend, the system serves as a scalable and effective tool for traffic police departments aiming to improve their operations and public service delivery.

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1. INTRODUCTION

1.1 INTRODUCTION:

The **Traffic Police Management System** is an innovative and comprehensive software solution designed to modernize and automate the process of managing traffic violations, fines, and payment tracking within traffic police departments. Traditional methods of managing traffic violations, such as paper-based record-keeping and manual invoicing, can be time-consuming, prone to errors, and inefficient. This project aims to address these challenges by creating a centralized, digitized platform that streamlines traffic law enforcement, making it more efficient, transparent, and reliable.

Traffic violations are a common issue in urban areas, and managing the large volume of violations effectively requires an organized system. The **Traffic Police Management System** simplifies the management of violations by automating key processes like issuing tickets, calculating fines, maintaining violation records, tracking payments, and generating insightful reports for analysis. With this system, officers can reduce their administrative workload, minimize the risk of errors, and ensure that the entire process is carried out smoothly and securely.

1.2 OBJECTIVES:

- **Automating Violation Invoicing:** Providing officers with an efficient way to generate violation invoices, reducing human error and time spent on paperwork.
- **Maintaining a Centralized Database:** Storing violation details, fine amounts, and payment status in a secure, easily accessible database.
- **Tracking Payments:** Allowing officers to track the status of fines and ensure timely payment of violations.
- **Reporting and Analytics:** Offering powerful search and reporting capabilities to analyze traffic violation patterns, payments, and trends.
- **Ensuring Accountability:** Implementing role-based access control to ensure that only authorized personnel can issue invoices and modify records, improving data security.
-

1.3 MODULES:

- User Management module**Manages user roles and access rights within the system.
- Violation invoicing module**Allows officers to create and generate violation invoices.
- Payment tracking Module**Allows officers to create and generate violation invoices.
-
- Database Management Module**Stores all information related to violations, fines, payments, and user data.
- Admin Module:**Provides administrative access to manage the overall system, user roles, and settings.
- Dashboard Module**Provides an overview of the system's operations in real-time.

2. SURVEY OF TECHNOLOGIES

2.1 Software Description

1. XAMPP (Local Server Software)

- **Purpose:** Provides a local server environment to run the system on a personal or office computer. It includes Apache (web server) and MySQL (database server), which are essential for the development and testing of PHP-based applications.

2. PHP (Server-Side Language)

- **Purpose:** PHP is used for server-side logic, handling tasks like database queries, invoice generation, payment updates, and user authentication.

3. MySQL (Database Management System)

- **Purpose:** MySQL is the relational database management system used to store and manage all the data related to violations, fines, payments, users, and other system information.
- Custom Tkinter: Enhances the standard Tkinter library for improved UI aesthetics and functionality.

4. Frontend Development Technologies

□ HTML5:

- **Purpose:** Defines the structure of the web pages used by the system, including the layout, form elements, and navigation.
- **Specifications:** HTML5 introduces semantic tags like <header>, <footer>, and <section>, improving the structure and accessibility of web content.

□ CSS (Cascading Style Sheets):

- **Purpose:** Provides styling to the web pages, defining colors, fonts, layouts, and responsive behavior.
- **Specifications:**
 - **CSS3:** Latest version supports animations, transitions, and advanced layouts (Flexbox, Grid).
 - **Responsive Design:** Ensures the interface adapts to different screen sizes (desktops, tablets, smartphones).

□ JavaScript:

- **Purpose:** Adds interactivity to the system's frontend, handling tasks like form validation, dynamic content updates, and user input handling.
- **Specifications:**
 - **Vanilla JavaScript** or libraries like **jQuery** may be used for DOM manipulation and AJAX requests.
 - **ES6** features like arrow functions, async/await, and template literals are supported for cleaner and more efficient code.

5. Bootstrap 4 (Frontend Framework)

- **Purpose:** A responsive front-end framework that provides ready-to-use components and grid systems to create a clean and mobile-friendly interface.
- **Version:** Bootstrap 4.x
- **Specifications:**
 - **Grid System:** Defines flexible layouts that adapt to different screen sizes using the 12-column grid system.
 - **Components:** Provides UI components like buttons, forms, modals, navigation bars, and tables with predefined styles and functionality.
 - **Customization:** Allows customization of themes, colors, and styles through its built-in variables and themes.

6. Web Browser (for Frontend Testing and Deployment)

- **Purpose:** The web browser (Google Chrome, Mozilla Firefox, Safari, etc.) is used to test and interact with the system's frontend during development and deployment.
- **Specifications:**
 - **Google Chrome or Mozilla Firefox** (latest versions): Supports the latest web standards, such as HTML5, CSS3, and JavaScript ES6.
 - **Developer Tools:** Provides a suite of tools for debugging, inspecting network requests, and testing responsiveness.

7. Text Editor / IDE (for Development)

- **Purpose:** A text editor or Integrated Development Environment (IDE) is used to write and edit the code for the backend (PHP), frontend (HTML/CSS/JS), and database (SQL).
- **Popular Tools:**
 - **Visual Studio Code (VS Code):** A lightweight, open-source editor with extensions for PHP, JavaScript, HTML, CSS, and MySQL.
 - **Sublime Text:** A fast and simple text editor for coding.
 - **PHPStorm:** A specialized IDE for PHP development, offering features like syntax highlighting, auto-completion, and debugging.

8. Version Control (Git)

- **Purpose:** Git is used for version control to track changes in the codebase and collaborate with team members. **Specifications:**
- - **Git:** Version control system used to manage changes in source code, ensuring the project's history is maintained and easily rolled back if needed.
 - **GitHub or GitLab:** Platforms for hosting Git repositories and collaboration, supporting team development, code reviews, and version control.

3.REQUIREMENTS AND ANALYSIS

3.1 Requirement Specification

□ Functional Requirements:

1. Users must be able to register using a unique username, password, and role.
2. The system should automatically calculate fines based on predefined rules
3. Store patient, doctor, and billing records with timestamps in the SQL database. Officers should input vehicle registration number, violation type, location, and fine amount.
4. Provide a GUI to display and manage patient information, appointments, and billing records.
5. The dashboard should allow users to quickly access important system functions, such as issuing new violations or viewing overdue fines.
6. Admins should be able to add, update, or delete user accounts.
7. Role-based access control should ensure that only authorized users can view or edit sensitive information.

□Non-functional Requirements:

1. The system should handle multiple user requests simultaneously with minimal latency.
2. The user interface should be intuitive and easy to navigate for both officers and admin users.
3. The system should be scalable to accommodate a growing number of traffic officers, users, and violations without performance degradation.
4. The system should be highly reliable with minimal downtime, ensuring continuous access to violation records and payment processing.
5. The system should be modular, allowing for easy maintenance and updates, including the addition of new features or changes to existing functionality.

3.2 Hardware and Software Requirements

Hardware Requirements:

Processor:

- Minimum: Intel Core i3 or equivalent
- Recommended: Intel Core i5 or higher

RAM:

- Minimum: 4 GB
- Recommended: 8 GB or more for better performance

Storage:

- Minimum: 500 GB HDD or SSD
- Recommended: 1 TB SSD for faster data access

Network:

- Ethernet or Wi-Fi with stable internet connection (for cloud access, external services)

Software Requirements:

Windows 10/11 (Pro or Enterprise version)

Web Browser (For Frontend Interaction): Google Chrome (latest stable version)

XAMPP (Local Development and Server Setup)

HTML5

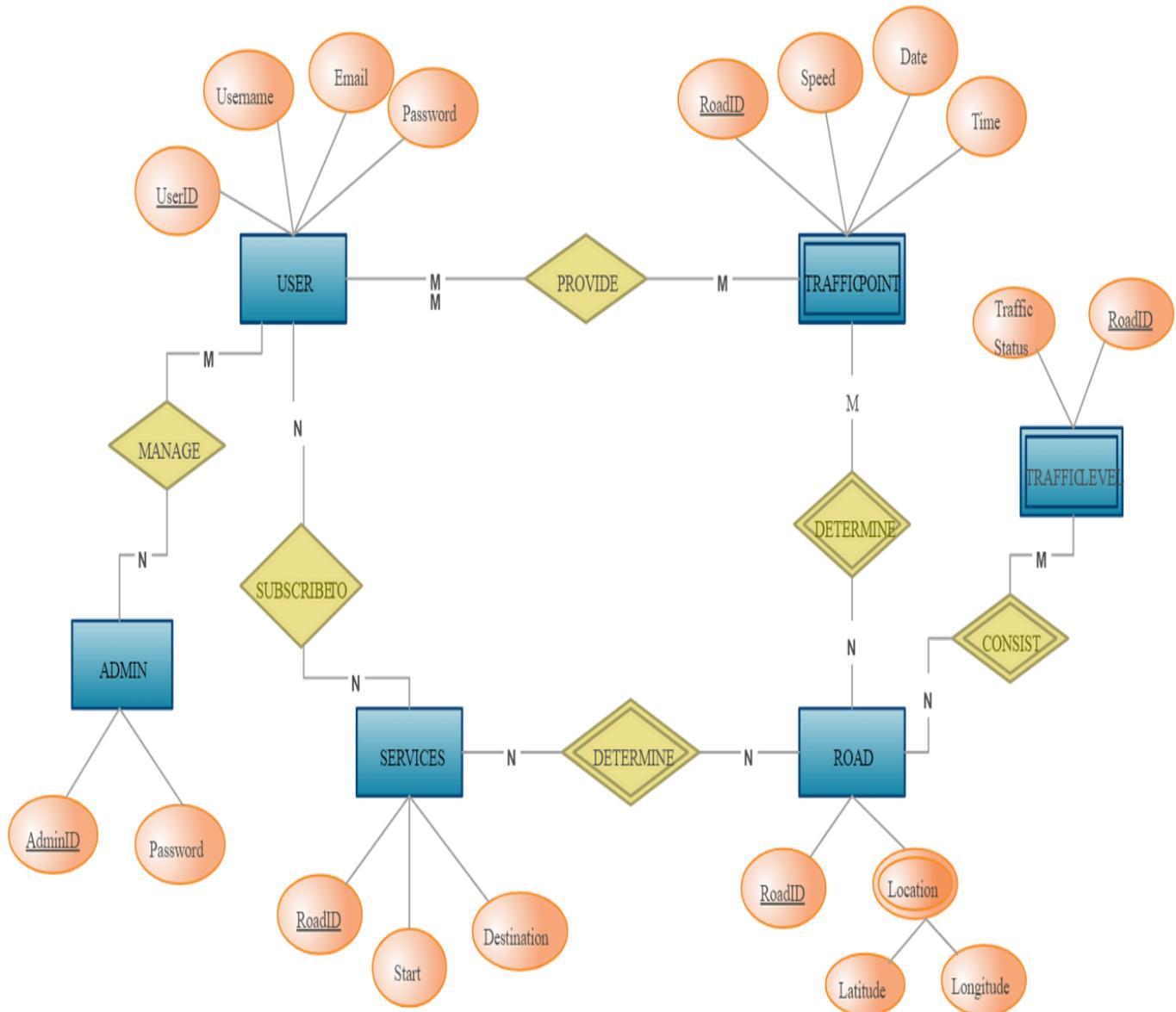
JavaScript

PHP

MySQL

Bootstrap

ER DIAGRAM:



4. Program Code

CSS CODE

```
/* @extend display-flex; */
display-flex {
  display: flex;
  display: -webkit-flex; }

/* @extend list-type-ulli; */
list-type-ulli {
  list-style-type: none;
  margin: 0;
  padding: 0; }

/* poppins-300 - latin */
@font-face {
  font-family: 'Poppins';
  font-style: normal;
  font-weight: 300;
  src: url("../fonts/poppins/poppins-v5-latin-300.eot");
  /* IE9 Compat Modes */
  src: local("Poppins Light"), local("Poppins-Light"),
  url("../fonts/poppins/poppins-v5-latin-300.eot?#iefix") format("embedded-opentype"),
  url("../fonts/poppins/poppins-v5-latin-300.woff2") format("woff2"),
  url("../fonts/poppins/poppins-v5-latin-300.woff") format("woff"),
  url("../fonts/poppins/poppins-v5-latin-300.ttf") format("truetype"),
  url("../fonts/poppins/poppins-v5-latin-300.svg#Poppins") format("svg");
  /* Legacy iOS */ }
/* poppins-300italic - latin */
@font-face {
  font-family: 'Poppins';
  font-style: italic;
  font-weight: 300;
  src: url("../fonts/poppins/poppins-v5-latin-300italic.eot");
  /* IE9 Compat Modes */
  src: local("Poppins Light Italic"), local("Poppins-LightItalic"),
  url("../fonts/poppins/poppins-v5-latin-300italic.eot?#iefix") format("embedded-
opentype"), url("../fonts/poppins/poppins-v5-latin-300italic.woff2")
format("woff2"), url("../fonts/poppins/poppins-v5-latin-300italic.woff")
format("woff"), url("../fonts/poppins/poppins-v5-latin-300italic.ttf")
format("truetype"), url("../fonts/poppins/poppins-v5-latin-300italic.svg#Poppins")
format("svg");
  /* Legacy iOS */ }
/* poppins-regular - latin */
@font-face {
  font-family: 'Poppins';
  font-style: normal;
  font-weight: 400;
  src: url("../fonts/poppins/poppins-v5-latin-regular.eot");
  /* IE9 Compat Modes */
  src: local("Poppins Regular"), local("Poppins-Regular"),
  url("../fonts/poppins/poppins-v5-latin-regular.eot?#iefix") format("embedded-
opentype"), url("../fonts/poppins/poppins-v5-latin-regular.woff2") format("woff2"),
```

```

url("../fonts/poppins/poppins-v5-latin-regular.woff") format("woff"),
url("../fonts/poppins/poppins-v5-latin-regular.ttf") format("truetype"),
url("../fonts/poppins/poppins-v5-latin-regular.svg#Poppins") format("svg");
/* Legacy iOS */
/* poppins-italic - latin */
@font-face {
    font-family: 'Poppins';
    font-style: italic;
    font-weight: 400;
    src: url("../fonts/poppins/poppins-v5-latin-italic.eot");
    /* IE9 Compat Modes */
    src: local("Poppins Italic"), local("Poppins-Italic"),
        url("../fonts/poppins/poppins-v5-latin-italic.eot?#iefix") format("embedded-opentype"),
        url("../fonts/poppins/poppins-v5-latin-italic.woff2") format("woff2"),
        url("../fonts/poppins/poppins-v5-latin-italic.woff") format("woff"),
        url("../fonts/poppins/poppins-v5-latin-italic.ttf") format("truetype"),
        url("../fonts/poppins/poppins-v5-latin-italic.svg#Poppins") format("svg");
    /* Legacy iOS */
/* poppins-500 - latin */
@font-face {
    font-family: 'Poppins';
    font-style: normal;
    font-weight: 500;
    src: url("../fonts/poppins/poppins-v5-latin-500.eot");
    /* IE9 Compat Modes */
    src: local("Poppins Medium"), local("Poppins-Medium"),
        url("../fonts/poppins/poppins-v5-latin-500.eot?#iefix") format("embedded-opentype"),
        url("../fonts/poppins/poppins-v5-latin-500.woff2") format("woff2"),
        url("../fonts/poppins/poppins-v5-latin-500.woff") format("woff"),
        url("../fonts/poppins/poppins-v5-latin-500.ttf") format("truetype"),
        url("../fonts/poppins/poppins-v5-latin-500.svg#Poppins") format("svg");
    /* Legacy iOS */
/* poppins-500italic - latin */
@font-face {
    font-family: 'Poppins';
    font-style: italic;
    font-weight: 500;
    src: url("../fonts/poppins/poppins-v5-latin-500italic.eot");
    /* IE9 Compat Modes */
    src: local("Poppins Medium Italic"), local("Poppins-MediumItalic"),
        url("../fonts/poppins/poppins-v5-latin-500italic.eot?#iefix") format("embedded-opentype"),
        url("../fonts/poppins/poppins-v5-latin-500italic.woff2") format("woff2"),
        url("../fonts/poppins/poppins-v5-latin-500italic.woff") format("woff"),
        url("../fonts/poppins/poppins-v5-latin-500italic.ttf") format("truetype"),
        url("../fonts/poppins/poppins-v5-latin-500italic.svg#Poppins") format("svg");
    /* Legacy iOS */
/* poppins-600 - latin */
@font-face {
    font-family: 'Poppins';
    font-style: normal;
    font-weight: 600;
    src: url("../fonts/poppins/poppins-v5-latin-600.eot");
    /* IE9 Compat Modes */
    src: local("Poppins SemiBold"), local("Poppins-SemiBold"),

```

```

url("../fonts/poppins/poppins-v5-latin-600.eot?#iefix") format("embedded-opentype"),
url("../fonts/poppins/poppins-v5-latin-600.woff2") format("woff2"),
url("../fonts/poppins/poppins-v5-latin-600.woff") format("woff"),
url("../fonts/poppins/poppins-v5-latin-600.ttf") format("truetype"),
url("../fonts/poppins/poppins-v5-latin-600.svg#Poppins") format("svg");
/* Legacy iOS */
/* poppins-700 - latin */
@font-face {
    font-family: 'Poppins';
    font-style: normal;
    font-weight: 700;
    src: url("../fonts/poppins/poppins-v5-latin-700.eot");
/* IE9 Compat Modes */
    src: local("Poppins Bold"), local("Poppins-Bold"), url("../fonts/poppins/poppins-v5-latin-700.eot?#iefix") format("embedded-opentype"),
url("../fonts/poppins/poppins-v5-latin-700.woff2") format("woff2"),
url("../fonts/poppins/poppins-v5-latin-700.woff") format("woff"),
url("../fonts/poppins/poppins-v5-latin-700.ttf") format("truetype"),
url("../fonts/poppins/poppins-v5-latin-700.svg#Poppins") format("svg");
/* Legacy iOS */
/* poppins-700italic - latin */
@font-face {
    font-family: 'Poppins';
    font-style: italic;
    font-weight: 700;
    src: url("../fonts/poppins/poppins-v5-latin-700italic.eot");
/* IE9 Compat Modes */
    src: local("Poppins Bold Italic"), local("Poppins-BoldItalic"),
url("../fonts/poppins/poppins-v5-latin-700italic.eot?#iefix") format("embedded-opentype"),
url("../fonts/poppins/poppins-v5-latin-700italic.woff2") format("woff2"),
url("../fonts/poppins/poppins-v5-latin-700italic.woff") format("woff"),
url("../fonts/poppins/poppins-v5-latin-700italic.ttf") format("truetype"),
url("../fonts/poppins/poppins-v5-latin-700italic.svg#Poppins") format("svg");
/* Legacy iOS */
/* poppins-800 - latin */
@font-face {
    font-family: 'Poppins';
    font-style: normal;
    font-weight: 800;
    src: url("../fonts/poppins/poppins-v5-latin-800.eot");
/* IE9 Compat Modes */
    src: local("Poppins ExtraBold"), local("Poppins-ExtraBold"),
url("../fonts/poppins/poppins-v5-latin-800.eot?#iefix") format("embedded-opentype"),
url("../fonts/poppins/poppins-v5-latin-800.woff2") format("woff2"),
url("../fonts/poppins/poppins-v5-latin-800.woff") format("woff"),
url("../fonts/poppins/poppins-v5-latin-800.ttf") format("truetype"),
url("../fonts/poppins/poppins-v5-latin-800.svg#Poppins") format("svg");
/* Legacy iOS */
/* poppins-800italic - latin */
@font-face {
    font-family: 'Poppins';
    font-style: italic;
    font-weight: 800;
    src: url("../fonts/poppins/poppins-v5-latin-800italic.eot");

```

```

/* IE9 Compat Modes */
src: local("Poppins ExtraBold Italic"), local("Poppins-ExtraBoldItalic"),
url("../fonts/poppins/poppins-v5-latin-800italic.eot?#iefix") format("embedded-
opentype"), url("../fonts/poppins/poppins-v5-latin-800italic.woff2")
format("woff2"), url("../fonts/poppins/poppins-v5-latin-800italic.woff")
format("woff"), url("../fonts/poppins/poppins-v5-latin-800italic.ttf")
format("truetype"), url("../fonts/poppins/poppins-v5-latin-800italic.svg#Poppins")
format("svg");
/* Legacy iOS */ }
/* poppins-900 - latin */
@font-face {
  font-family: 'Poppins';
  font-style: normal;
  font-weight: 900;
  src: url("../fonts/poppins/poppins-v5-latin-900.eot");
/* IE9 Compat Modes */
src: local("Poppins Black"), local("Poppins-Black"),
url("../fonts/poppins/poppins-v5-latin-900.eot?#iefix") format("embedded-opentype"),
url("../fonts/poppins/poppins-v5-latin-900.woff2") format("woff2"),
url("../fonts/poppins/poppins-v5-latin-900.woff") format("woff"),
url("../fonts/poppins/poppins-v5-latin-900.ttf") format("truetype"),
url("../fonts/poppins/poppins-v5-latin-900.svg#Poppins") format("svg");
/* Legacy iOS */ }
a:focus, a:active {
  text-decoration: none;
  outline: none;
  transition: all 300ms ease 0s;
  -moz-transition: all 300ms ease 0s;
  -webkit-transition: all 300ms ease 0s;
  -o-transition: all 300ms ease 0s;
  -ms-transition: all 300ms ease 0s; }

input, select, textarea {
  outline: none;
  appearance: unset !important;
  -moz-appearance: unset !important;
  -webkit-appearance: unset !important;
  -o-appearance: unset !important;
  -ms-appearance: unset !important; }

input::-webkit-outer-spin-button, input::-webkit-inner-spin-button {
  appearance: none !important;
  -moz-appearance: none !important;
  -webkit-appearance: none !important;
  -o-appearance: none !important;
  -ms-appearance: none !important;
  margin: 0; }

input:focus, select:focus, textarea:focus {
  outline: none;
  box-shadow: none !important;
  -moz-box-shadow: none !important;
  -webkit-box-shadow: none !important;
  -o-box-shadow: none !important;
  -ms-box-shadow: none !important; }

```

```

input[type=checkbox] {
    appearance: checkbox !important;
    -moz-appearance: checkbox !important;
    -webkit-appearance: checkbox !important;
    -o-appearance: checkbox !important;
    -ms-appearance: checkbox !important; }

input[type=radio] {
    appearance: radio !important;
    -moz-appearance: radio !important;
    -webkit-appearance: radio !important;
    -o-appearance: radio !important;
    -ms-appearance: radio !important; }

input:-webkit-autofill {
    box-shadow: 0 0 0 30px transparent inset;
    -moz-box-shadow: 0 0 0 30px transparent inset;
    -webkit-box-shadow: 0 0 0 30px transparent inset;
    -o-box-shadow: 0 0 0 30px transparent inset;
    -ms-box-shadow: 0 0 0 30px transparent inset;
    background-color: transparent !important; }

img {
    max-width: 100%;
    height: auto; }

figure {
    margin: 0; }

p {
    margin-bottom: 32px;
    margin-top: 0px;
    font-weight: 400; }
p span {
    font-weight: bold; }

h2 {
    line-height: 1.2;
    margin: 0;
    padding: 0;
    font-weight: bold;
    color: #fff;
    font-family: 'Poppins';
    font-size: 36px;
    margin-bottom: 10px; }

.clear {
    clear: both; }

body {
    font-size: 14px;
    line-height: 1.8;
    color: #fff;
    font-weight: 600;

```

```

font-family: 'Poppins';
margin: 0px;
background-image: url("../images/body-bg.jpg");
background-repeat: no-repeat;
background-size: cover;
-moz-background-size: cover;
-webkit-background-size: cover;
-o-background-size: cover;
-ms-background-size: cover;
background-position: center center; }

.main {
position: relative; }

.container {
margin-top: 120px;
margin-bottom: 70px;
width: 1400px;
padding-top: 135px;
padding-bottom: 115px;
background-image: url("../img/traffic.png");
background-repeat: no-repeat;
background-size: cover;
-moz-background-size: cover;
-webkit-background-size: cover;
-o-background-size: cover;
-ms-background-size: cover;
background-position: center center;
overflow: hidden; }

.signup-content {
width: 562px;
margin-right: 0px;
background: rgba(177, 135, 77, 0.75);
float: right; }

.signup-form {
padding: 54px 80px 36px 55px; }

.form-group {
margin-bottom: 23px; }

input {
border: none;
box-sizing: border-box;
border-bottom: 1px solid #ebebeb;
background: transparent;
width: 100%;
display: block;
color: #fff;
font-weight: bold;
font-family: 'Poppins';
font-size: 14px;
padding: 3px 0; }
input::-webkit-input-placeholder {

```

```

    font-weight: 400;
    color: #fff; }
input::-moz-placeholder {
    font-weight: 400;
    color: #fff; }
input:-ms-input-placeholder {
    font-weight: 400;
    color: #fff; }
input:-moz-placeholder {
    font-weight: 400;
    color: #fff; }
input:focus {
    font-weight: bold; }

.field-icon {
    float: right;
    margin-right: 0px;
    margin-top: -22px;
    position: relative;
    z-index: 2;
    color: #fff; }

input[type=checkbox]:not(old) {
    width: 2em;
    margin: 0;
    padding: 0;
    font-size: 1em;
    display: none; }

input[type=checkbox]:not(old) + label {
    display: inline-block;
    margin-bottom: 25px; }

input[type=checkbox]:not(old) + label > span {
    display: inline-block;
    width: 13px;
    height: 13px;
    margin-right: 15px;
    margin-bottom: 4px;
    border: 1px solid #fff;
    border-radius: 2px;
    -moz-border-radius: 2px;
    -webkit-border-radius: 2px;
    -o-border-radius: 2px;
    -ms-border-radius: 2px;
    background: transparent;
    vertical-align: bottom; }

input[type=checkbox]:not(old):checked + label > span {
    background: transparent; }

input[type=checkbox]:not(old):checked + label > span:before {
    content: '\f26b';
    display: block;
    color: #fff;
}

```

```

font-size: 11px;
line-height: 1.2;
text-align: center;
font-family: 'Material-Design-Iconic-Font';
font-weight: bold; }

.label-agree-term {
  font-size: 13px;
  font-weight: 400;
  color: #fff; }

.term-service {
  color: #fff; }

.form-submit {
  width: auto;
  display: inline-block;
  border: none;
  background: #fff;
  color: #b18757;
  padding: 10px;
  height: 50px;
  box-shadow: 0px 15px 9.9px 0.1px rgba(0, 0, 0, 0.15);
  -moz-box-shadow: 0px 15px 9.9px 0.1px rgba(0, 0, 0, 0.15);
  -webkit-box-shadow: 0px 15px 9.9px 0.1px rgba(0, 0, 0, 0.15);
  -o-box-shadow: 0px 15px 9.9px 0.1px rgba(0, 0, 0, 0.15);
  -ms-box-shadow: 0px 15px 9.9px 0.1px rgba(0, 0, 0, 0.15);
  margin-right: 25px; }
.form-submit:hover {
  background-color: #e6e6e6; }

.submit {
  width: 130px;
  border-radius: 25px;
  -moz-border-radius: 25px;
  -webkit-border-radius: 25px;
  -o-border-radius: 25px;
  -ms-border-radius: 25px;
  text-transform: uppercase;
  font-size: 13px;
  cursor: pointer; }

.submit-link {
  border: 2px solid #fff;
  text-decoration: none;
  display: inline-block;
  vertical-align: middle;
  padding: 12px 0;
  text-align: center;
  color: #fff; }
.submit-link:hover {
  background: #fff;
  color: #b18757; }

@media screen and (max-width: 992px) {

```

```
.container {  
  width: calc( 100% - 30px);  
  max-width: 100%;  
  margin: 0 auto; }  
  
.signup-content {  
  width: 100%; } }  
 @media screen and (max-width: 480px) {  
   .submit {  
     width: 100%; }  
  
.form-submit {  
  margin-bottom: 20px;  
  margin-right: 0px; }  
  
.signup-form {  
  padding: 54px 30px 36px 30px; } }
```

Node.js

```
(function($) {
  $(".toggle-password").click(function() {
    $(this).toggleClass("zmdi-eye zmdi-eye-off");
    var input = $($this).attr("toggle"));
    if (input.attr("type") == "password") {
      input.attr("type", "text");
    } else {
      input.attr("type", "password");
    }
  });
})(jQuery);
```

PHP CODE:

CLIENT.PHP

```
<?php
  include('..action.php')
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Violetor Details </title>
  <!-- Font Icon -->
  <link rel="stylesheet" href="fonts/material-icon/css/material-design-iconic-
font.min.css">

  <!-- Main css -->
  <link rel="stylesheet" href="css/style.css">
</head>
<body>

  <div class="main">
```

```

<div class="container">
  <div class="signup-content">
    <form method="post" id="signup-form" class="signup-form">
      <h3>Violetor Details </h3>
      <div class="form-group">
        <input type="text" class="form-input" name="name" id="name"
placeholder="Your Name"/>
      </div>
      <div class="form-group">
        <input type="text" class="form-input" name="add" id="post"
placeholder="Address"/>
      </div>
      <div class="form-group">
        <input type="text" class="form-input" name="aid" id="pid"
placeholder="Adhar Card No."/>
      </div>
      <div class="form-group">
        <input type="text" class="form-input" name="pno" id="phone"
placeholder="Phone"/>
      </div>
      <div class="form-group">
        <input type="email" class="form-input" name="email"
id="email" placeholder="Email"/>
      </div>

      <div class="form-group">
        <input type="submit" name="client" id="submit" class="form-
submit submit" value="Submit"/>
      </div>
    </form>
  </div>
</div>

<!-- JS -->
<script src="vendor/jquery/jquery.min.js"></script>
<script src="js/main.js"></script>
</body><!-- This templates was made by Colorlib (https://colorlib.com) -->
</html>

```

LOGIN.PHP:

```
<?php
    include('..../action.php')
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Log In </title>

    <!-- Font Icon -->
    <link rel="stylesheet" href="fonts/material-icon/css/material-design-iconic-
font.min.css">

    <!-- Main css -->
    <link rel="stylesheet" href="css/style.css">
</head>
<body>

    <div class="main">

        <div class="container">
            <div class="signup-content">
                <form method="post" id="signup-form" class="signup-form">
                    <h2>Log In </h2>
                    <div class="form-group">
                        <input type="text" class="form-input" name="name" id="name"
placeholder="Username"/>
                    </div>
                    <div class="form-group">
                        <input type="text" class="form-input" name="psw"
id="password" placeholder="Password"/>
                        <span toggle="#password" class="zmdi zmdi-eye field-icon
toggle-password"></span>
                    </div>
                    <div class="form-group">
                        <input type="submit" name="login" id="submit" class="form-
```

```

submit submit" value="Log In"/>
    <a href="psignup.php" class="submit-link submit">Sign
Up</a>
        </div>
    </form>
</div>
</div>

</div>

<!-- JS -->
<script src="vendor/jquery/jquery.min.js"></script>
<script src="js/main.js"></script>
</body><!-- This templates was made by Colorlib (https://colorlib.com) -->
</html>

```

LOGOUT.PHP:

```

<?php
session_start();
unset($_SESSION['pid']);
unset($_SESSION['pname']);
unset($_SESSION['uname']);
header('location:../index.php');
?>

```

VEHICLE.PHP:

```

<?php
    include('../action.php')
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">

```

```

<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<title>Vehicle Details </title>

<!-- Font Icon -->
<link rel="stylesheet" href="fonts/material-icon/css/material-design-iconic-
font.min.css">

<!-- Main css -->
<link rel="stylesheet" href="css/style.css">
</head>
<body>

<div class="main">

    <div class="container">
        <div class="signup-content">
            <form method="post" id="signup-form" class="signup-form">
                <h3>Vehicle Details </h3>
                <div class="form-group">
                    <input type="text" class="form-input" name="vname" id="name" placeholder="Vehicle name"/>
                </div>
                <div class="form-group">
                    <input type="text" class="form-input" name="vno" id="post" placeholder="Vehicle no."/>
                </div>
                <div class="form-group">
                    <label for="sel1">Vehicle Type</label>
                    <select class="form-control" id="sel1" name="vtype">
                        <option value="2">Two Wheeler</option>
                        <option value="3">Three Wheeler</option>
                        <option value="4">Four Wheeler</option>
                        <option value="6">Six Wheeler</option>
                        <option value="10">Ten Wheeler</option>
                    </select>
                </div>
                <div class="form-group">
                    <input type="text" class="form-input" name="vmodel" id="phone" placeholder="Vehicle Model"/>
                </div>
            </form>
        </div>
    </div>
</body>

```

```

        </div>
        <div class="form-group">
            <input type="submit" name="vdetail" id="submit" class="form-
submit submit" value="Submit"/>
        </div>
    </form>
</div>
</div>

</div>

<!-- JS -->
<script src="vendor/jquery/jquery.min.js"></script>
<script src="js/main.js"></script>
</body><!-- This templates was made by Colorlib (https://colorlib.com) -->
</html>

```

SIGN IN.PHP:

```

<?php
    include('../action.php')
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Sign Up </title>

    <!-- Font Icon -->
    <link rel="stylesheet" href="fonts/material-icon/css/material-design-iconic-
font.min.css">

    <!-- Main css -->
    <link rel="stylesheet" href="css/style.css">
</head>
<body>

    <div class="main">
        <div class="container">
            <div class="signup-content">

```

```

        <form method="post" id="signup-form" class="signup-form"
action="">
            <h2>Sign up </h2>
            <div class="form-group">
                <input type="text" class="form-input" name="name" id="name"
placeholder="Your Name" required />
            </div>
            <div class="form-group">
                <input type="text" class="form-input" name="uname"
id="name" placeholder="Username" required />
            </div>
            <div class="form-group">
                <input type="text" class="form-input" name="post" id="post"
placeholder="Your Post" required />
            </div>
            <div class="form-group">
                <input type="text" class="form-input" name="pid" id="pid"
placeholder="Your Id" required/>
            </div>
            <div class="form-group">
                <input type="text" class="form-input" name="pno" id="phone"
placeholder="Phone" required/>
            </div>
            <div class="form-group">
                <input type="email" class="form-input" name="email"
id="email" placeholder="Email" required/>
            </div>
            <div class="form-group">
                <input type="text" class="form-input" name="psw"
id="password" placeholder="Password" required/>
                <span toggle="#password" class="zmdi zmdi-eye field-icon
toggle-password"></span>
            </div>
            <div class="form-group">
                <input type="checkbox" name="agree-term" id="agree-term"
class="agree-term" required/>
                <label for="agree-term" class="label-agree-
term"><span><span></span></span>I agree all statements in <a href="#">
                <span>Terms of service</a></span></label>

```

```

        </div>
        <div class="form-group">
            <input type="submit" name="submit" id="submit" class="form-submit submit" value="Sign up"/>
            <a href="login.php" class="submit-link submit">Log IN</a>
        </div>
    </form>
</div>
</div>

</div>

<!-- JS -->
<script src="vendor/jquery/jquery.min.js"></script>
<script src="js/main.js"></script>
</body><!-- This templates was made by Colorlib (https://colorlib.com) -->
</html>

```

CHALLAN.PHP:

```

<?php
session_start();
if(!isset($_SESSION['pid'])){
header('location:index.php');

}
?>
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, maximum-scale=1">
<title>Challan page</title>
<link rel="icon" href="img/policeLogo.png" type="image/png">
<link rel="shortcut icon" href="img/policeLogo.png" type="img/x-icon">

<link href="css/bootstrap.css" rel="stylesheet" type="text/css">
<link href="css/bootstrap.min.css" rel="stylesheet" type="text/css">
<link href="css/style.css" rel="stylesheet" type="text/css">
<link href="css/font-awesome.css" rel="stylesheet" type="text/css">
<link href="css/responsive.css" rel="stylesheet" type="text/css">

```

```
<link href="css/magnific-popup.css" rel="stylesheet" type="text/css">
<link href="css/animate.css" rel="stylesheet" type="text/css"> <script
type="text/javascript" src="js/jquery.1.8.3.min.js"></script> <script
type="text/javascript" src="js/bootstrap.min.js"></script> <script
type="text/javascript" src="js/bootstrap.js"></script> <script
type="text/javascript" src="js/jquery-scrolltofixed.js"></script> <script
type="text/javascript" src="js/jquery.easing.1.3.js"></script> <script
type="text/javascript" src="js/jquery.isotope.js"></script> <script
type="text/javascript" src="js/wow.js"></script> <script
type="text/javascript" src="js/main.js"></script> <script
type="text/javascript" src="js/classie.js"></script> <script
type="text/javascript" src="js/magnific-popup.js"></script> <script
src="contactform/contactform.js"></script> <script
type="text/javascript" src="js/jquery-ui.js"></script> <script
type="text/javascript" src="js/jquery.js"></script>
```

```
<!--
```

```
=====
==
```

Theme Name: Knight

Theme URL: <https://bootstrapmade.com/knight-free-bootstrap-theme/>

Author: BootstrapMade

Author URL: <https://bootstrapmade.com>

```
=====--
```

```
>
```

```
</head>
```

```
<body>
```

```
<header class="header" id="header">
```

```
<!--header-start-->
```

```
<div class="container">
```

```
<figure class="logo animated fadeInDown delay-07s">
```

```
<a href="#"></a>
```

```
</figure>
```

```
<h2 style="color: white;"><b>HARYANA POLICE</b></h2>
```

```
<div class="container mt-5 mb-5">
```

```
    <div class="">
```

```
        <div class="row mt-5">
```

```
            <div class="col-md-7 bg-info">
```

```
<form method="" id="signup-form" class="signup-form">
    <h2 class="text-center mt-5 text-white">Challan Details </h2>
    <div class="form-group mt-5">
        <label class="mr-5"><span><h3 class="text-white">Challan
name</h3></span>
        </label>
        <input type="checkbox" class="ctype" name="vname"
value="5000" cname='Challan name' />
    </div>
    <div class="form-group mt-4">
        <label class="mr-5"><span><h3 class="text-white">Challan
name</h3></span>
        </label>
        <input type="checkbox" class="ctype" name="vname"
value="5000" cname='Challan name' />
    </div>
    <div class="form-group mt-4">
        <label class="mr-5"><span><h3 class="text-white">Challan
name</h3></span>
        </label>
        <input type="checkbox" class="ctype" name="vname"
value="5000" cname='Challan name' />
    </div>
    <div class="form-group mt-4">
        <label class="mr-5"><span><h3 class="text-white">Challan
name</h3></span>
        </label>
        <input type="checkbox" class="ctype" name="vname"
value="5000" cname='Challan name' />
    </div>
    <div class="form-group mt-4">
        <label class="mr-5"><span><h3 class="text-white">Challan
name</h3></span>
        </label>
        <input type="checkbox" class="ctype" name="vname"
value="5000" cname='Challan name' />
    </div>
    <div class="form-group mt-5">
        <input type="button" id="vdetail" class="btn submit"

```



```

<div class="form-group mt-4">
    <label class="mr-5"><span><h3 class="text-white">Challan
name</h3></span>
    </label>
    <input type="checkbox" class="ctype" name="vname"
value="5000" cname='Challan name' />
</div>
<div class="form-group mt-4">
    <label class="mr-5"><span><h3 class="text-white">Challan
name</h3></span>
    </label>
    <input type="checkbox" class="ctype" name="vname"
value="5000" cname='Challan name' />
</div>
<div class="form-group mt-4">
    <label class="mr-5"><span><h3 class="text-white">Challan
name</h3></span>
    </label>
    <input type="checkbox" class="ctype" name="vname"
value="5000" cname='Challan name' />
</div>
<div class="form-group mt-4">
    <label class="mr-5"><span><h3 class="text-white">Challan
name</h3></span>
    </label>
    <input type="checkbox" class="ctype" name="vname"
value="5000" cname='Challan name' />
</div>
<div class="form-group mt-5">
    <input type="button" id="vdetail" class="btn submit"
value="Submit"/>
</div>
</form></div>
<div class="col-md-5">
    <div class="card">
        <div class="card-header bg-info">
            <h3> Challan Cost</h3>
        </div>
        <div class="card-body">

```

```
        <h3>Total : <b id="total"></b></h3>
    </div>
</div>
</div>
</div>
</div>
```

main-section alabaster-end----->

```
<section class="business-talking">
<!--business-talking-start-->
<div class="container">
<h2>Don't Drink And Drive</h2>
</div>
</section>
<!--business-talking-end-->
<div class="container">
<section class="main-section contact" id="contact">

<div class="row">
<div class="col-lg-6 col-sm-7 wow fadeInLeft">
<div class="contact-info-box address clearfix">
<h3><i class=" icon-map-marker"></i>Address:</h3>
<span>Room no- 5P 704,Provident Sunworth,Kengeri,Banglore</span>
</div>
<div class="contact-info-box phone clearfix">
<h3><i class="fa fa-phone"></i>Phone:</h3>
<span>8003649945</span>
</div>
<div class="contact-info-box email clearfix">
<h3><i class="fa fa-pencil"></i>email:</h3>
<span>shubhamsindhu2712@gmail.com</span>
</div>
<div class="contact-info-box hours clearfix">
<h3><i class="fa fa-clock-o"></i>Hours:</h3>
<span><strong>Monday - Thursday:</strong> 10am -
6pm<br><strong>Friday:</strong> People work on Fridays
now?<br><strong>Saturday - Sunday:</strong> Best not to ask.</span>
</div>
```

```

<ul class="social-link">
    <li class="twitter"><a href="https://www.google.com/search?client=firefox-b-d&q=twitter"><i class="fa fa-twitter"></i></a></li>
    <li class="facebook"><a href="https://www.facebook.com/"><i class="fa fa-facebook"></i></a></li>
    <li class="pinterest"><a href="https://in.pinterest.com/"><i class="fa fa-pinterest"></i></a></li>
    <li class="gplus"><a href="https://www.google.com/search?client=firefox-b-d&q=google.com"><i class="fa fa-google-plus"></i></a></li>
    <li class="dribbble"><a href="https://web.whatsapp.com/"><i class="fa fa-dribbble"></i></a></li>
</ul>
</div>
<div class="col-lg-6 col-sm-5 wow fadeInUp delay-05s">

</div>
</div>
</section>
</div>
<script type="text/javascript">
$(document).ready(function(e) {
    $('#test').scrollToFixed();
    $('.res-nav_click').click(function() {
        $('.main-nav').slideToggle();
        return false
    });
    $('.Portfolio-box').magnificPopup({
        delegate: 'a',
        type: 'image'
    });
});
</script>
<script>
wow = new WOW({
    animateClass: 'animated',
    offset: 100
})

```

```

});
wow.init();
</script>

<script type="text/javascript">
$(window).load(function() {
$('.main-nav li a, .servicelink').bind('click', function(event) {
var $anchor = $(this);
$('html, body').stop().animate({
scrollTop: $($anchor.attr('href')).offset().top - 102
}, 1500, 'easeInOutExpo');
/*
if you don't want to use the easing effects:
$('html, body').stop().animate({
scrollTop: $($anchor.attr('href')).offset().top
}, 1000);
*/
if ($(window).width() < 768) {
$('.main-nav').hide();
}
event.preventDefault();
});
})
</script>
<script type="text/javascript">
$(window).load(function() {

var $container = $('.portfolioContainer'),
$body = $('body'),
colW = 375,
columns = null;

$container.isotope({
// disable window resizing
resizable: true,
masonry: {

```

```

columnWidth: colW } });

$(window).smartresize(function() {
// check if columns has changed
var currentColumns = Math.floor($body.width() - 30) /
colW);
if (currentColumns !== columns) {
// set new column count
columns = currentColumns;
// apply width to container manually, then trigger relayout
$container.width(columns * colW)
.isotope('reLayout');
}

}).smartresize(); // trigger resize to set container width
$('.portfolioFilter a').click(function() {
$('.portfolioFilter .current').removeClass('current');
$(this).addClass('current');

var selector = $(this).attr('data-filter');
$container.isotope({
filter: selector,
});

return false;
});
});

</script>
</body>

</html>

```

MYSQL QUERIES

```
-- phpMyAdmin SQL Dump
-- version 4.8.3
-- https://www.phpmyadmin.net/
--
-- Host: 127.0.0.1
-- Generation Time: Jan 02, 2021 at 02:58 AM
-- Server version: 10.1.35-MariaDB
-- PHP Version: 7.2.9

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
SET AUTOCOMMIT = 0;
START TRANSACTION;
SET time_zone = "+00:00";

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;

--
-- Database: `traffic`
--

-----

-- Table structure for table `p_info`
--



CREATE TABLE `p_info` (
  `p_id` int(11) NOT NULL,
  `uname` varchar(40) NOT NULL,
  `pname` varchar(20) NOT NULL,
  `post` varchar(20) NOT NULL,
  `post_id` varchar(20) NOT NULL,
  `pno` varchar(20) NOT NULL,
  `email` varchar(40) NOT NULL,
  `psw` varchar(20) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--



-- Dumping data for table `p_info`
--



INSERT INTO `p_info` (`p_id`, `uname`, `pname`, `post`, `post_id`, `pno`, `email`, `psw`) VALUES
(1, 'shubham', 'Shubham Sindhu', 'DGP', '3669', '8003649945', 'shubham@gmail.com', 'shubham'),
```

```

(2, 'naya', 'nayana', 'si', '57876', '5584887', 'naya27@gmail.com', 'naya27');

-- -----
-- 
-- Table structure for table `u_info`
-- 

CREATE TABLE `u_info` (
  `uid` int(11) NOT NULL,
  `pid` int(11) NOT NULL,
  `name` varchar(30) NOT NULL,
  `adds` varchar(30) NOT NULL,
  `pno` varchar(30) NOT NULL,
  `aids` varchar(30) NOT NULL,
  `email` varchar(30) NOT NULL,
  `challandate` date NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- 
-- Dumping data for table `u_info`
-- 

INSERT INTO `u_info` (`uid`, `pid`, `name`, `adds`, `pno`, `aids`, `email`,
`challandate`) VALUES
(1, 1, 'Rajesh', 'dbit' '72772772', '1717177177', 'rajesh@gmail.com', '2019-11-21'),
(2, 1, 'hugfhh', 'fuiuiu', '46789', '866878', 'shubhamsindhu2712@gmail.com', '2019-11-21'),
(3, 1, 'hjkgh', 'ghk', '567790', '56789', 'shubhamsindhu2712@gmail.com', '2019-11-21'),
(4, 2, 'mith', 'rmg', '5522', '2565', 'mith41@gmial.com', '2019-11-21');

-- -----
-- 
-- Table structure for table `vehicle_detail`
-- 

CREATE TABLE `vehicle_detail` (
  `vid` int(11) NOT NULL,
  `uid` int(10) NOT NULL,
  `vname` varchar(20) NOT NULL,
  `vhno` varchar(30) NOT NULL,
  `vtype` varchar(30) NOT NULL,
  `vmodel` varchar(30) NOT NULL,
  `pid` int(11) NOT NULL,
  `ccost` varchar(30) NOT NULL,
  `cdesc` varchar(200) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- 
-- Dumping data for table `vehicle_detail`

```

```

--  

INSERT INTO `vehicle_detail` (`vid`, `uid`, `vname`, `vhno`, `vtype`, `vmodel`,  

`pid`, `ccost`, `cdesc`) VALUES  

(1, 1, 'Pulsar 150', 'ka 11 ks3712', '2', 'new', 1, '10000', '0'),  

(2, 2, 'bJAJ', '6789', '2', 'naye', 1, '10000', '0'),  

(3, 3, 'gfhjk', '56778', '2', 'ghjjk', 1, '5000', '0'),  

(4, 4, 'bullet', '258', '2', 'bs4', 2, '20000', '0');  

--  

-- Indexes for dumped tables  

--  

--  

-- Indexes for table `p_info`  

--  

ALTER TABLE `p_info`  

ADD PRIMARY KEY (`p_id`);  

--  

-- Indexes for table `u_info`  

--  

ALTER TABLE `u_info`  

ADD PRIMARY KEY (`uid`);  

--  

-- Indexes for table `vehicle_detail`  

--  

ALTER TABLE `vehicle_detail`  

ADD PRIMARY KEY (`vid`);  

--  

-- AUTO_INCREMENT for dumped tables  

--  

--  

-- AUTO_INCREMENT for table `p_info`  

--  

ALTER TABLE `p_info`  

MODIFY `p_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;  

--  

-- AUTO_INCREMENT for table `u_info`  

--  

ALTER TABLE `u_info`  

MODIFY `uid` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;  

--  

-- AUTO_INCREMENT for table `vehicle_detail`  

--  

ALTER TABLE `vehicle_detail`
```

```
MODIFY `vid` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;  
COMMIT;
```

PROJECT SCREENSHOTS

1. LOGIN PAGE



2. FRONT PAGE



3. TRAFFIC RULES PAGE:

TRAFFIC RULES

TRAFFIC SIGNS THAT PROVIDE INFORMATION:

- The distance left to cover to reach a specific destination.
- Alternative routes to the specific destination, if any.
- Locations on the cautionary traffic signs are also displayed such as schools, colleges, workplaces, clubs, public places and restaurants.

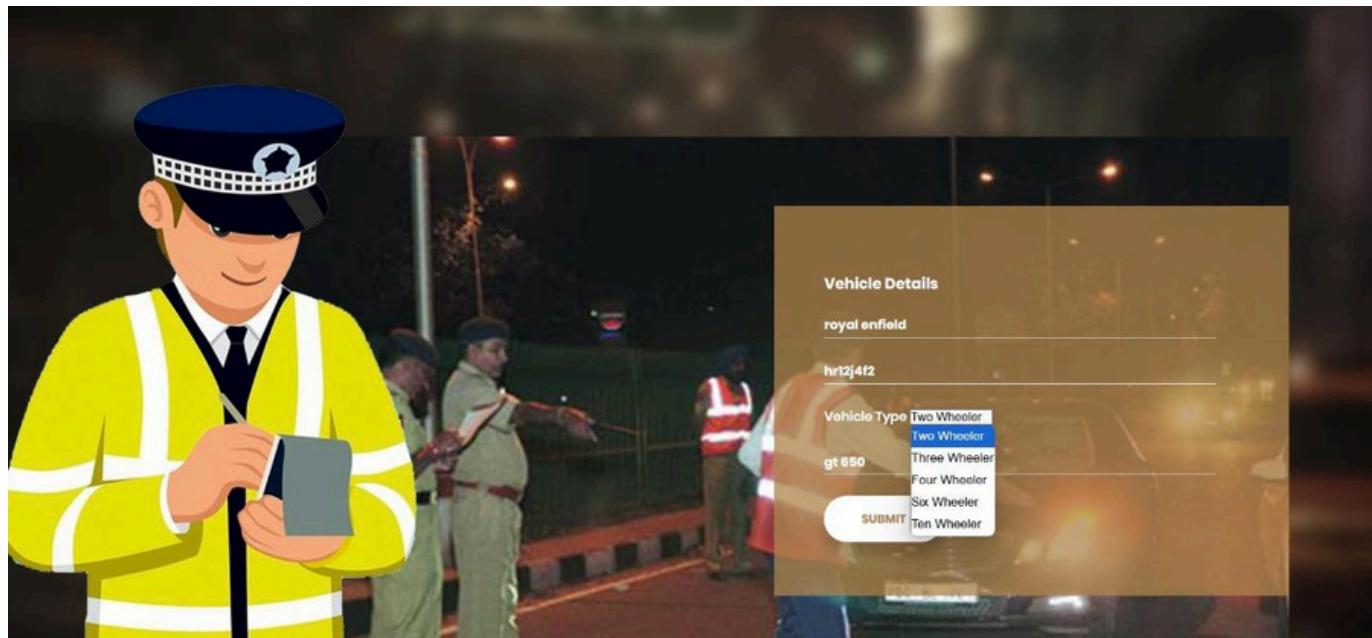
FUNCTIONS OF TRAFFIC SIGNS

- Knowledge of traffic signs for any driver is necessary as they perform certain functions which are essential for road safety.
- The functions performed by traffic signs are:
- The distance left to cover to reach a specific destination.
- Alternative routes to the specific destination, if any.
- Locations on the cautionary traffic signs are also displayed such as schools, colleges, workplaces, clubs, public places and restaurants.

DO NOT DRIVE WITHOUT THESE DOCUMENTS

- Valid driving license
- Vehicle registration certificate (Form 23)
- Valid vehicle's insurance certificate
- Permit and vehicle's certificate of fitness (applicable only to transport vehicles)
- Valid Pollution Under Control Certificate On demand by a police officer in uniform or an officer of the Transport Department, produce these documents for inspection

4. VEHICLE ENTRY PAGE:



5.CHALLAN PAGE:



HARYANA POLICE

CHALLAN RECEIPT

VIOLETOR DETAILS	VEHICLE DETAILS	CHALLAN DETAILS
VIOLETOR NAME: MANI	VEHICLE NAME: ROYAL ENFIELD	TOTAL PENALTY: 0
VIOLETOR ID: 2123435452	VEHICLE NO: HR12J4F2	PRINT
PHONE NO: 1123457891	VEHICLE MODEL : GT 650	
ADDRESS: REC	VEHICLE TYPE : 2 TYERS	

5. RESULTS AND DISCUSSION:

OBSERVATIONS:

- **Streamlined Management:** The project enables efficient management of traffic-related data, including user registrations, violations, and reporting.
- **User Authentication:** The inclusion of login and registration pages ensures that only authorized personnel or users can access certain functionalities.
- **Template Organization:** The project uses a templated structure (base.html and other templates) to maintain consistent design and improve modularity.
- **CSS for Styling:** The use of a style.css file helps in creating a uniform and visually appealing user interface.
- **Backend Functionality:** The app.py file indicates that the project likely uses Python with Flask (or similar frameworks) for backend processing and routing.
- **Focus on Usability:** The presence of forms (like login and registration) indicates an emphasis on user interaction and usability.
- **Centralized Data Handling:** The system could serve as a centralized platform for managing traffic rules, offenders, and reports efficiently.
- **Scalability:** The modularity of templates and backend setup allows for easy extension and scaling of the project.
- **Learning Opportunity:** Working on this project offers insights into web development, including frontend, backend, and database integration.
- **Potential for Real-world Application:** The project, with improvements and scaling, can serve as a foundation for a real-world traffic management system.
-

LIMITATIONS:

- **Limited Scope:** The project may focus on basic functionalities, such as user registration and login, and lack advanced features like real-time traffic monitoring, GPS integration, or automated violation detection.
- **Scalability Challenge:** Without optimized backend and database design, the system might struggle to handle large volumes of data or simultaneous users in a real-world scenario.
- **Security Concerns:** User authentication may lack robust security measures, such as encryption for sensitive data, two-factor authentication, or prevention of SQL

injection and other vulnerabilities.

- **Lack of Real-Time Features:** The project may not include real-time functionalities like live traffic updates or immediate violation notifications, which are crucial in actual traffic management systems.
- **Database Constraints:** The absence of a detailed database schema or use of lightweight database solutions might limit the system's capacity to store and query complex datasets.
- **No Integration with External Systems:** The project may not integrate with external hardware or software systems, such as traffic cameras, vehicle databases, or GIS tools, limiting its practical application.

FUTURE IMPROVEMENTS:

Enhanced User Interface

- Develop a modern, responsive design using frameworks like Bootstrap or Tailwind CSS for better usability and cross-device compatibility.

Advanced Security Measures

- Implement robust authentication mechanisms such as two-factor authentication (2FA).

Real-Time Features

- Integrate real-time traffic updates using APIs or IoT-based sensors.

Database Optimization

- Design a scalable database schema to handle large datasets efficiently.

Mobile Application Development

- Develop a companion mobile app for on-the-go access to reports, violation tracking, and updates.

6. Conclusion

The **Traffic Police Management System** project is a step toward modernizing traffic monitoring and enforcement. It offers a foundation for organizing and managing traffic-related tasks effectively. Through features like user authentication, centralized data handling, and modular design, the project demonstrates the potential for creating a streamlined and efficient system.

However, the project also highlights areas for growth, such as scalability, security, real-time updates, and integration with external systems. With further enhancements and adoption of modern technologies, the system can become a practical solution for real-world traffic management challenges.

Ultimately, this project provides a valuable learning experience in web development and system design, while laying the groundwork for a more comprehensive and impactful traffic management platform.

7. References

1. **Web Development Frameworks:** Tutorials and documentation for frameworks like Flask/Django (e.g., Flask Documentation: <https://flask.palletsprojects.com>).
2. **HTML/CSS Design:** Resources from W3Schools and Mozilla Developer Network (MDN) for frontend development (<https://developer.mozilla.org>).

3. **Database Management:** SQL design principles and queries from platforms like MySQL documentation (<https://dev.mysql.com>).
4. **Version Control:** Git and GitHub usage for collaborative development (<https://git-scm.com>).
5. **Security Guidelines:** OWASP best practices for secure web application development (<https://owasp.org>).
6. **Real-World Inspiration:** Research on existing traffic management systems and their functionalities.
7. **Learning Platforms:** Online tutorials from platforms like YouTube, Coursera, and Udemy for implementing specific features.
8. **APIs and Tools:** Resources for integrating APIs, such as Google Maps API for real-time traffic updates (<https://developers.google.com/maps/documentation>).
9. **Community Contributions:** Insights and discussions on forums like Stack Overflow (<https://stackoverflow.com>).