A Project/Dissertation ETE Reporton

ONLINE TRAFFIC OFFENCE MANAGEMENT SYSTEM

Submitted in partial fulfillment of the
requirement for the award of the degree of

Bachelors of Technology In Computer Science And Engineering

Under The Supervision of
Ms. J.Angelin Blessy
(Assistant Professor)

Submitted By

Navin kumar
19021011319/ 19SCSE1010117
Ankit Kumar Shanu
19021011805/ 19SCSE1010651

SCHOOL OF COMPUTING SCIENCE AND ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
GALGOTIAS UNIVERSITY, GREATER NOIDA
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ABSTRACT

This Project is all About Road Traffic Offence System is a tool of computerized information management which attracts the assertion of every individual, government as well as cooperate organization because it is the gatewayto our daily business activities. Road Traffic Management System ranging from highway codes, Road Traffic Offences, Traffic Jams to safety on the road. Existing result of the surveys indicates that in spite of all efforts being made by the Indian Road Rules not much has been achieved and the need for the greater attention becomes imperative. Road safety program is the collective of preventive measure to ensure safety on our road in an attempt to remove the imminent danger. The basic fact is that a vast majority of Indians are quite aware of the necessity of Computerized Management Systems the gateway to their day-to-day business as wellas their requirement.

CHAPTER-1
Introduction

The Indian Road rules, titled "Rules of the Road Regulation", were brought into effect since July, 1989. These rules are germane to the Indian drivers (all inclusive oftwo, three and four wheelers), while on the road to ensure an orderly traffic and a safer journey. Violation of these "Rules of Road Regulation" is a punishable transgression as per the city specific traffic police rules and the "Motor Vehicle Act".

One of the challenges facing man today is how to effectively manage the enormous information he has acquired over the years. Management in any given organization would keep proper record administrative record or personal record to mention apart from these, report can be generated which assist management in decision making. They play a role of properly organized file keeping system in management decision making.

The computerized management information system will ensure accurate report generation for management to plan, organized, control and coordinate the activities of the computerization, the computer department in any organization deals with the handing of the organization's information on system which includes maintenance and documentation of employer's profile and ensuring that their welfare is taken into consideration. It also maintains a good human relationship with the employers ensuring their physical fitness to enable them give maximum man power for efficient output.

1.1 **Problem Definition & Need**

Our traffic police want to create a Traffic offence Management System (TOMS) that helps in maintaining Offence information. And also help RTO to include new vehicle information, owner information and old/scrapped vehicles.

The scope of this project is limited to offence details. The functionalities include the following:

1. The Traffic Policeman should be allowed to add offence details against a vehicle and notify the RTO.
2. The Traffic Police Department should be able to clear the offence and notify the RTO.

3. This includes generation of reports to display owner and vehicle details as well as reports to show offence history against the vehicle and its owner.
4. The project also provides for an efficient notification system for communication between the various actors involved.
5. Other functionalities of a typical traffic management system (i.e. seizing/releasing vehicles,etc).
6. User can also Login and see the number of vehicle registered on his owner id as well as his offence history.

The project is divided into three ends:-
1. Traffic Police End
2. Rto End
3.User End

The TRAFFIC POLICE can report the defined offence against the vehicle when he/she finds the vehicle breaking the rules.

The RTO is being divide as clerk/rto officer where the clerk can search for any of the vehicle and help the owner to pay his challan. The RTO officer can see the details of the owner and his offence respectively.

The USER can register his vehicle on the portal after which his owner id will get generated and using his owner id he can login and see the registered vehicle against his owner id and the offence details. If the User already has a owner id then he can use the owner id to register any number of vehicles

CHAPTER-2
Literature Survey

The review covers three main aspects: the effect of enforcement on traffic crashes, the effect of enforcement on driver behaviour, and alternatives to coventional enforcement. Most studies attempting to examine the effect of enforcement on crashes have simply considered changes in total crash numbers after a general increase in enforcement, some studies have considered particular locations or times of day, whilst others have concentrated on particular offences. Most studies have contained serious faults in either planning or evaluation. Those reviewed indicate that it is possible to reduce traffic rashes using enforcement given the right circumstances and correct type of site. A deployment plan based on high-risk locations or times appears superior to a general increase in enforcement. Most well- planned studies of enforcement have been concerned with its effects on driver behaviour. There is good evidence that the presence of an enforcement vehicle will cause a reduction in driving speeds, and that this reduction may be maintained for up to 5 km; a memory effect may also be produced by a period of concentrated enforcement. Alternative methods of enforcement have included dummy patrol cars and automatic speed indicators. Public posting of speeding behaviour and road safetyposters have also been used. Most of these methods have achieved some success in modifying driver behaviour, but they have not been tried on an area-wide basis.

Traffic offence management is a major concern in cities around the world. Mobilized Traffic Offence System is a powerful mobile based application that records all the traffic offences committed citywide [1] . The application helps the traffic police keep adequate information of all traffic offences that has been committed by road users and also maintain the databases of the driver and vehicle details [2].We have many existing android applications that helps the vehicle driverto check his challan status and he can pay the penalty online without the intervention of traffic police .but our application focuses on traffic police as user and he can penalize the one who commits the traffic offence and can collect the penalty amount on spot using e-payment .with the information stored in the database the higher authorities can take appropriate measures .

CHAPTER-3
Project Design

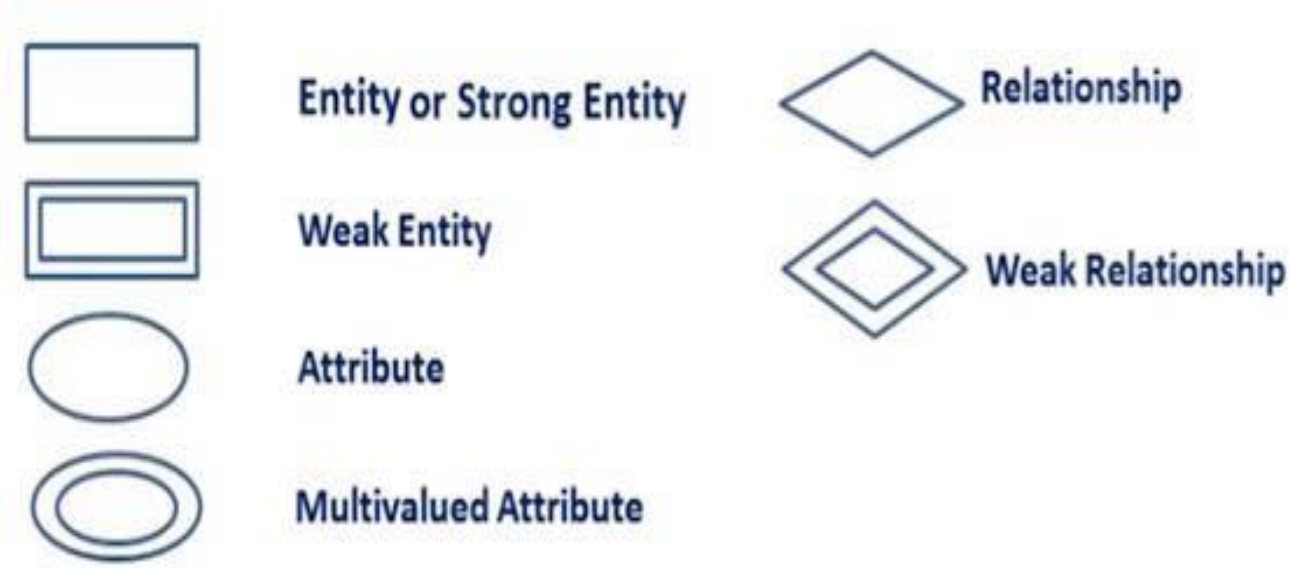
- **An entity relationship diagram (ERD)** shows the relationships of entity sets stored in a database. An entity in this context is an object, a component of data. An entity set is a collection of similar entities. These entities can have attributes that define its properties.

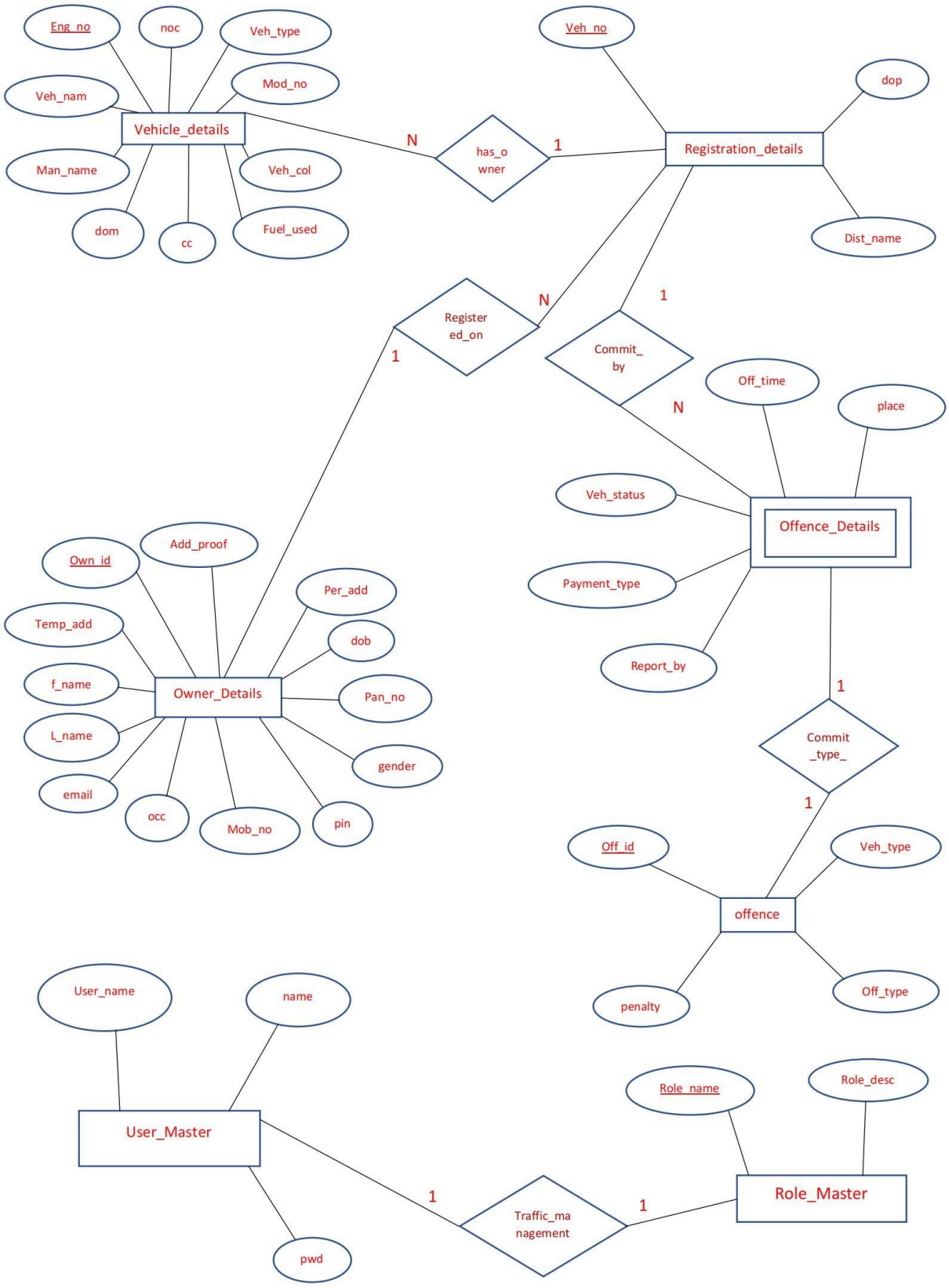
- By defining the entities, their attributes, and showing the relationships between them, an ER diagram illustrates the logical structure of databases.

- ER diagrams are used to sketch out the design of a database.

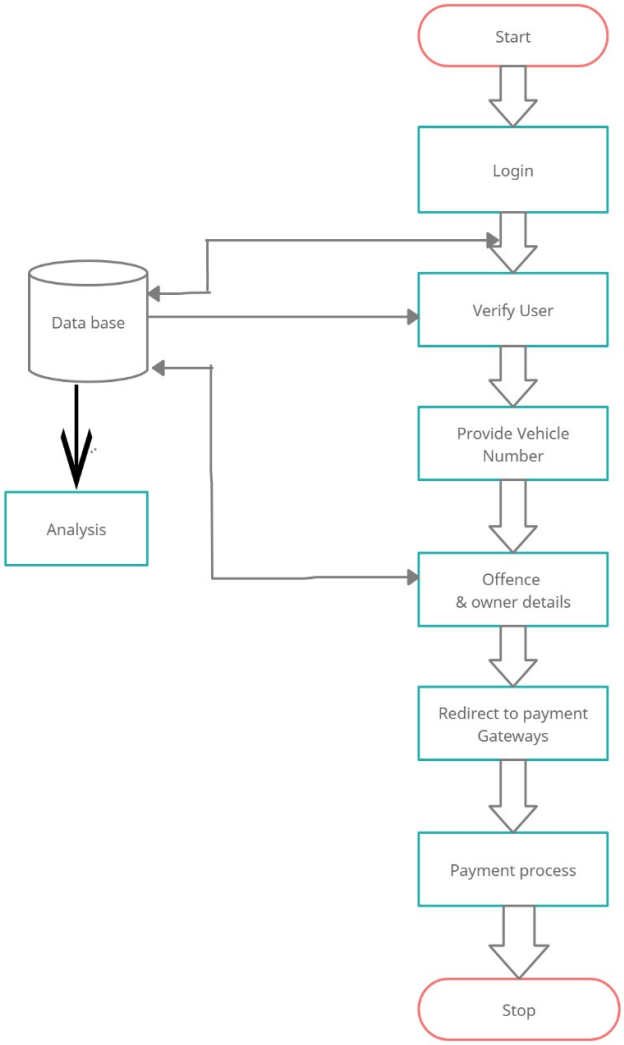
Following are the main components and its symbols in ER Diagrams:

- **Rectangles:** This Entity Relationship Diagram symbol represents entity types
- **Ellipses :** Symbol represent attributes
- **Diamonds:** This symbol represents relationship types
- **Lines:** It links attributes to entity types and entity types with other relationship types
- **Primary key:** attributes are underlined
- **Double Ellipses:** Represent multi-valued attributes




Eng_no
noc
Veh_type
Veh_nam
Mod_no
Vehicle_details
Man_name
Veh_col
dom
cc
Fuel_used
N
has_o
wner
1
Veh_no
dop
Registration_details
Dist_name
Register
ed_on
N
1
1
Commit_
by
N
Off_time
place
Veh_status
Offence_Details
Payment_type
Report_by
Add_proof
Own_id
Per_add
Temp_add
dob
f_name
Owner_Details
Pan_no
L_name
gender
email
occ
Mob_no
pin
1
Commit
type
1
Off_id
Veh_type
offence
penalty
Off_type
User_name
name
User_Master
pwd
1
Traffic_ma
nagement
1
Role_name
Role_desc
Role_Master

DFD DIAGRAM

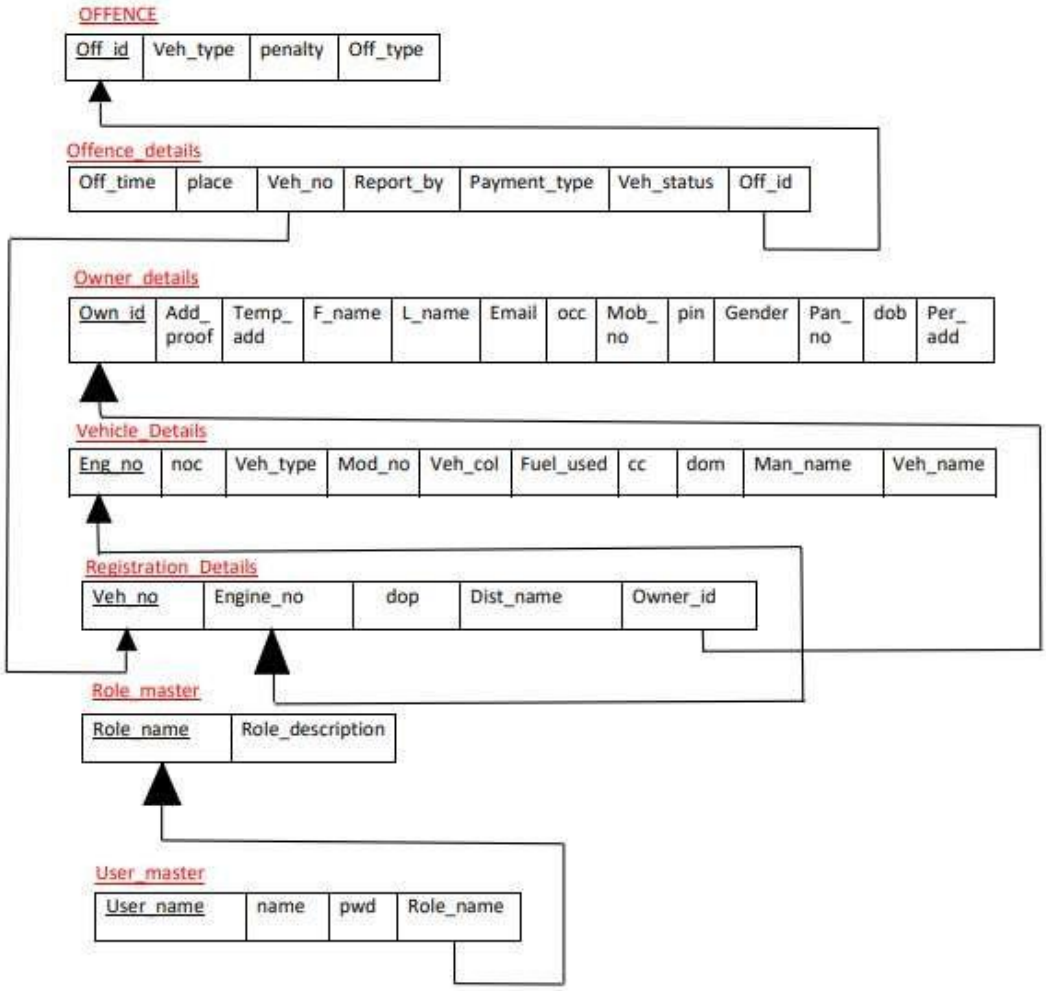

Start
Login
Verify User
Data base
Provide Vehicle Number
Analysis
Offence & owner details
Redirect to payment Gateways
Payment process
Stop

CHAPTER-4

SCHEMA DIAGRAM

A database schema is the skeleton structure that represents the logical view of the entire database. It defines how the data is organized and how the relations among them are associated. It formulates all the constraints that are to be applied on the data.

A database schema defines its entities and the relationship among them. It contains a descriptive detail of the database, which can be depicted by



means of schema

CHAPTER-5
IMPLEMENTATION

5.1 DataBase Implementation

5.1.1 Create Statements

The CREATE TABLE statement is used to create a new table in a

database.SYNTAX: CREATE TABLE table_name(

column1 datatype, column2 datatype, column3 datatype,);

The column parameters specify the names of the columns of the tab.

mysql> CREATE TABLE vehicle_details(veh_type varchar(5) DEFAULT NULL,engine_no varchar(20) NOT NULL,model_no varchar(20) DEFAULT NULL,veh_name varchar(30) DEFAULT NULL,veh_color varchar(20) DEFAULT NULL,manufacturer_name varchar(20) DEFAULT NULL,date_of_manufacture date DEFAULT NULL,no_of_cyclinders int DEFAULT NULL,cubic_capacity int DEFAULT NULL,fuel_used varchar(10) DEFAULT NULL,PRIMARY KEY(engine_no));

mysql> CREATE TABLE owner_details(owner_id int NOT NULL,fname varchar(30) DEFAULT NULL,lname varchar(30) DEFAULT NULL,dob date DEFAULT NULL, mobile_no varchar(20) DEFAULT NULL,gender varchar(10) DEFAULT NULL, email varchar(50) DEFAULT NULL,temp_add varchar(20) DEFAULT NULL,perm_add varchar(20) DEFAULT NULL,pincode int DEFAULT NULL,occupation varchar(10) DEFAULT NULL,pancard_no varchar(20) DEFAULT NULL,add_proof_name varchar(20) DEFAULT NULL, PRIMARY KEY (owner_id));

mysql>CREATE TABLE registration_details(veh_no varchar(20) NOT NULL, engine_no varchar(20) DEFAULT NULL,owner_id int DEFAULT NULL, date_of_purchase date DEFAULT NULL,distributer_name varchar(20) DEFAULT NULL,PRIMARY KEY (veh_no),KEY engine_no(engine_no),KEY owner_id (owner_id),CONSTRAINT registration_details_ibfk_1 FOREIGN KEY (engine_no) REFERENCES vehicle_details (engine_no) ON DELETE CASCADE, CONSTRAINT

registration_details_ibfk_2 FOREIGN KEY (owner_id) REFERENCES owner_details (owner_id) ON DELETE CASCADE);

mysql> CREATE TABLE offence_details(veh_no varchar(20) DEFAULT NULL, otime datetime DEFAULT NULL,place varchar(20) DEFAULT NULL,offence_id varchar(20) DEFAULT NULL,reported_by varchar(20) DEFAULT NULL, vehicle_status varchar(100) DEFAULT NULL,payment varchar(10) DEFAULT NULL, KEYveh_no(veh_no),KEYoffence_id(offence_id),CONSTRAIN offence_details_ibfk_1`FOREIGN KEY (veh_no) REFERENCES registration_details (veh_no) ON DELETE CASCADE,CONSTRAINT offence_details_ibfk_2 FOREIGN KEY(offence_id) REFERENCES offence(offence_id) ON DELETE CASCADE ON UPDATE CASCADE);

mysql>CREATE TABLE offence(offence_id varchar(20) NOT NULL,offence_type varchar(100) NOT NULL,veh_type varchar(20) NOT NULL,penalty int NOT NULL, PRIMARY KEY (offence_id));

mysql> CREATE TABLE role_master(rolename varchar(20) NOT NULL,roledesc varchar(20) DEFAULT NULL,PRIMARY KEY (rolename));

mysql>CREATE TABLE user_master(name varchar(30) DEFAULT NULL, username varchar(20) NOT NULL,password varchar(20) DEFAULT NULL,rolename varchar(20) DEFAULT NULL, PRIMARY KEY (`username`), KEY rolename (rolename),CONSTRAINT user_master_ibfk_1 FOREIGN KEY (rolename) REFERENCES role_master (rolename));

5.1.1 Describe

Statements

```
mysql> desc vehicle_details;
+---------------------+-------------+------+-----+---------+-------+
| Field               | Type        | Null | Key | Default | Extra |
+---------------------+-------------+------+-----+---------+-------+
| veh_type            | varchar(5)  | YES  |     | NULL    |       |
| engine_no           | varchar(20) | NO   | PRI | NULL    |       |
| model_no            | varchar(20) | YES  |     | NULL    |       |
| veh_name            | varchar(30) | YES  |     | NULL    |       |
| veh_color           | varchar(20) | YES  |     | NULL    |       |
| manufacturer_name   | varchar(20) | YES  |     | NULL    |       |
| date_of_manufacture | date        | YES  |     | NULL    |       |
| no_of_cyclinders    | int         | YES  |     | NULL    |       |
| cubic_capacity      | int         | YES  |     | NULL    |       |
| fuel_used           | varchar(10) | YES  |     | NULL    |       |
+---------------------+-------------+------+-----+---------+-------+
10 rows in set (0.00 sec)
```

1. Vehicle Details

2.Owner Details

```
mysql> desc owner_details;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| owner_id      | int         | NO   | PRI | NULL    |       |
| fname         | varchar(30) | YES  |     | NULL    |       |
| lname         | varchar(30) | YES  |     | NULL    |       |
| dob           | date        | YES  |     | NULL    |       |
| mobile_no     | varchar(20) | YES  |     | NULL    |       |
| gender        | varchar(10) | YES  |     | NULL    |       |
| email         | varchar(50) | YES  |     | NULL    |       |
| temp_add      | varchar(20) | YES  |     | NULL    |       |
| perm_add      | varchar(20) | YES  |     | NULL    |       |
| pincode       | int         | YES  |     | NULL    |       |
| occupation    | varchar(10) | YES  |     | NULL    |       |
| pancard_no    | varchar(20) | YES  |     | NULL    |       |
| add_proof_name| varchar(20) | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
13 rows in set (0.00 sec)
```

3. Registration Details

```
mysql> desc registration_details;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| veh_no           | varchar(20) | NO   | PRI | NULL    |       |
| engine_no        | varchar(20) | YES  | MUL | NULL    |       |
| owner_id         | int         | YES  | MUL | NULL    |       |
| date_of_purchase | date        | YES  |     | NULL    |       |
| distributer_name | varchar(20) | YES  |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

4. Offence Details

```
mysql> desc offence_details;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| veh_no         | varchar(20)  | YES  | MUL | NULL    |       |
| otime          | datetime     | YES  |     | NULL    |       |
| place          | varchar(20)  | YES  |     | NULL    |       |
| offence_id     | varchar(20)  | YES  | MUL | NULL    |       |
| reported_by    | varchar(20)  | YES  |     | NULL    |       |
| vehicle_status | varchar(100) | YES  |     | NULL    |       |
| payment        | varchar(10)  | YES  |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
7 rows in set (0.00 sec)
```

5. Offence

```
mysql> desc offence;
+--------------+--------------+------+-----+---------+-------+
| Field        | Type         | Null | Key | Default | Extra |
+--------------+--------------+------+-----+---------+-------+
| offence_id   | varchar(20)  | NO   | PRI | NULL    |       |
| offence_type | varchar(100) | NO   |     | NULL    |       |
| veh_type     | varchar(20)  | NO   |     | NULL    |       |
| penalty      | int          | NO   |     | NULL    |       |
+--------------+--------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

6. User Master

```
mysql> desc user_master;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| name      | varchar(30) | YES  |     | NULL    |       |
| username  | varchar(20) | NO   | PRI | NULL    |       |
| passwordd | varchar(20) | YES  |     | NULL    |       |
| rolename  | varchar(20) | YES  | MUL | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

7. **Role Master**

```
mysql> desc role_master;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| rolename | varchar(20) | NO   | PRI | NULL    |       |
| roledesc | varchar(20) | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
2 rows in set (0.00 sec)
```

5.2 Client Side Code:-

RTO END:-

```
import React,{Component} from
'react';import {
 Jumbotron,
 Button
} from 'reactstrap';
import
'./usermaster.css';
import axios from
'axios'
class UsermasterLogin extends
  Component{constructor(props){
    super(props)
    this.formSubmittedHandler = this.formSubmittedHandler.bind(this);
  }
```

```
  componentWillMount(){
    document.body.style.backgroundImage='url("https://image.shutterstock.com/z/
    stock-
photo-mumbai-india-october-policeman-on-duty-directing-traffic-in-the-south-of-the-city-
541791226.jpg")';
    document.body.style.backgroundSize='cover';
    document.body.style.backgroundRepeat='no-
    repeat';
  }
  componentWillUnmount(){
    document.body.style.backgroundImage = null
    document.body.style.backgroundSize='null';
    document.body.style.backgroundRepeat='null';
  }
  formSubmittedHandler(event){
    event.preventDefault();
    const data = new
    FormData(event.target);var object =
    {}; data.forEach(function(value, key){
      object[key] = value;
    });
    var jsonData = JSON.stringify(object);
    console.log(jsonData)
    axios.get('http://localhost:3002/authrto',{params:
    {
      entered_data:jsonData
    }}).then(response=>{
```

```
        var data = response.data[0]
        if(response.data[0].rolename === 'RTO
        OFFICER'){
            console.log('hiiii')
            this.props.history.push({
                pathname:'/admin/rto',
                state : data
            })
        }
        else if(response.data[0].rolename === 'CLERK'){
            this.props.history.push({
                pathname: '/admin/clerk',
                state: data
            });
        }
    })
    .catch(error=>{
        alert("NO SUCH USER EXISTS!!!!!!")
        window.location.href = '/usermasterlogin'
    })
}
render()
    {
    return
    (
        <div>
```

```
<div className='container' style={{paddingTop:'100px'}}>
  <Jumbotron className='jumbotron1'>
    <p className="display-3">LOGIN PROTAL FOR ADMINS</p>
    <hr></hr>
    <form className='new' onSubmit={this.formSubmittedHandler}>
      <div className="form-group row">
        <label for="email_address" className="col-md-4 col-form-label text-md-right"><h4>USERNAME:</h4></label>
          <div className="col-md-6">
            <input type="text" id="email_address" className="form-control" name="username" required/>
          </div>
      </div>
      <hr></hr>
      <div className="form-group row">
        <label for="email_address" className="col-md-4 col-form-label text-md-right"><h4>PASSWORD:</h4></label>
          <div className="col-md-6">
            <input type="password" id="email_address" className="form-control" name="password" required/>
          </div>
      </div>
      <hr></hr>
      <Button color='secondary'>Submit</Button>
    </form>
  </Jumbotron>
</div>

</div
  >
```

```
      )
   }
}
export default UsermasterLogin;
```

OpeningPageRto(JS File):-

```
import React,{Component} from 'react';
import { Card, Button, CardTitle, CardText, Row, Col } from
'reactstrap';import { Jumbotron, Container } from 'reactstrap';
import { FontAwesomeIcon } from '@fortawesome/react-fontawesome';
import { faTrafficLight ,faSearchPlus} from '@fortawesome/free-solid-svg-icons';
import { UncontrolledDropdown, DropdownToggle, DropdownMenu, DropdownItem }
from'reactstrap';
import Image from
'./assets/new.png';import axios
from 'axios';
import {Link} from 'react-router-dom';
import './openingpagerto.css';
class Rto extends Component{
   state={
      firstClick:false
   }
   constructor(props){
      super(props)
      this.fromSubmitHandler = this.fromSubmitHandler.bind(this)
   }
   loginClickedHandler=()=>{
```

```
    this.setState({loginClicked:  true});


}
closeHandler=()=>{
    this.setState({loginClicked:  false});
}
colorchange=()=>{
    document.body.style.backgroundColor="
    #c73866"
}
fromSubmitHandler=(event)=>{
    event.preventDefault();
    const data = new
    FormData(event.target);var object =
    {}; data.forEach(function(value, key){
        object[key] = value;
    });
    console.log(object.search)
    axios.get('http://localhost:3001/data',{params:{
        entered_data : object.search
    }}).then(response=>{
        console.log(response.data[0])
        this.props.history.push({
            pathname : '/particular',
            state : [response.data[0],object.search]
        })
    })
```

```
    .catch(error=>{
      alert("No user
      Exits")
    })
  }
  render()
    {
    return
    (
      <div className='container'>
        {this.colorchange()}
        {console.log(this.props.location.state.name)}
        <div style={{textAlign:'center',padding:'2px',height:'100%',boxSizing:'border-box',borderRadius:'2px'}}>
          <img src={Image}></img>
        </div>
        <div  style={{textAlign:'center',backgroundColor:"red"}}>
          <h1><FontAwesomeIcon icon={faTrafficLight}/> TRAFFIC MANAGEMENT STYSTEM</h1>
        </div>
        <Jumbotron fluid style={{ paddingTop:'10px',textAlign:'center',backgroundColor:'#9DE0AD'}}>
          <Container fluid>
          <h1 className="display-3">WELCOME {this.props.location.state.name}</h1>
          <h5 className="lead">THIS IS A RTO PROTAL ,BELOW YOU CAN SEETHE ACCESSES</h5>
          <hr></hr>
          <form className='example' onSubmit={this.fromSubmitHandler}>
```

```
            <input type="text" placeholder="Search Vehicle Here.." name="search"/>
            <button type="submit"><FontAwesomeIcon icon={faSearchPlus}/></button>
          </form>
          </Container>
        </Jumbotron>
        <hr></hr>
        <Row>
          <Col sm="12">
            <Card body>
            <CardTitle tag="h5">MANAGE OFFENCE RULE AND PENALTY</CardTitle>
            <CardText>With supporting text below as a natural lead-in to additionalcontent.</CardText>
            <div style={{textAlign:'center'}}>
            <UncontrolledDropdown>
            <DropdownToggle
              caret>CLICK HERE
            </DropdownToggle>
            <DropdownMenu>
              <Link to='/add'><DropdownItem>ADD NEW OFFENCE</DropdownItem></Link>
              <Link to='/updateoffence'><DropdownItem onClick={this.UpdatePenalty}>UPDATE PENALTY</DropdownItem></Link>
            </DropdownMenu>
            </UncontrolledDropdown>
            </div>
            </Card>
          </Col>
        </Row>
```

```
        </div>
      )
   }
}
export default Rto;
```

TrafficPolice End:-

```
import React,{Component} from 'react';
import { FontAwesomeIcon } from '@fortawesome/react-fontawesome';
import { faTrafficLight } from '@fortawesome/free-solid-svg-
icons';import { Jumbotron} from 'reactstrap';
import { Button } from
'reactstrap'; import {Container}
from 'reactstrap';import
'./page1.css';
import axios from 'axios';
class Page1 extends Component{
   constructor(props){
      super(props)
      this.nextPageHandler=this.nextPageHandler.bind(th
      is) this.state={
         recorded_details:[]
      }
   }
   nextPageHandler(event){
      event.preventDefault();
      const data = new
```

```
FormData(event.target);var object =
{}; data.forEach(function(value, key){
   object[key] = value;
});
this.setState({recorded_details:dat
a}) var abc = 'yes'
axios.get('http://localhost:3001/checker',{params
   :{ info:object
}})
.then(response=>{
   console.log(response.status)
   if(response.status){
      this.props.history.push({
         pathname:
         '/police/selectOffence',state:
         object
      });
   }
})
.catch(error => {
   console.log(error.response.data)
   if(error.response.data === 'Forbidden'){
      alert("Vehicle Is already Siezed cant add more
      offence")window.location.href='/police'
   }
   else if(error.response.data === "Not
      Found"){alert('The Vehicle Does not
```

```
        exists') window.location.href='/police'
      }
    })
}

render()
  {
  return
  (
    <div className='App1'>
    <Jumbotron>
      <FontAwesomeIcon icon={faTrafficLight} className='App1-Font' />
      <h1>Traffic Managment System</h1>
    </Jumbotron>
    <Container className="themed-container" className='App1-Container'>
      <fieldset className='App1-fieldset'>
      <legend className='App1-legend'>Enter Details:</legend>
      <form className='App1-form' onSubmit={this.nextPageHandler}>
        <label for="fname">Vehicle Number:</label>
        <input type="text" id="vnumber" name="vnumber" required/>
        <label for="country">Date/Time:</label>
        <input type="datetime-local" id="datetime" name="datetime" required/>
        <label for="country">Place</label>
        <input type="text" id="place" name="place" required/>
        <label for="country">Reported By:</label>
        <input type="text" id="rb" name="rb" required/>
        <hr></hr>
        <Button color='primary' type='submit'>SUBMIT</Button>
```

```
            </form>
            </fieldset>
          </Container>
      </div>
      )
   }
}

export default Page1;
```

Page1(CSS File):-

```
.App1{
   text-align: center;
}

.App1-Font{
   position:
   absolute;top:
   0.8em;
   left: 1em;
   font-size: 3em;
   color:black;
}

.App1-Container{
   text-align:
   center;border:
```

```
   1px solid;
   padding: 10px;
   box-shadow: 5px 10px 8px #888888;
}

.App1-button{
   position:
   relative;top:
   0.8em;
   right:16em;
}

                              <label for="email_address" className="col-md-4 col-form-labeltext-md-right">Current Offence:</label>
                              <div className="col-md-6">
                                 <input type="text" id="email_address" className="form-control" name="email-address"
value={JSON.parse(this.props.location.state[0]).offence}readOnly/>
                              </div>
                           </div>
                           <div className="form-group row">
                              <label for="email_address" className="col-md-4 col-form-labeltext-md-right">Date/Time:</label>
                              <div className="col-md-6">
                                 <input type="datetime-local"
id="email_address"className="form-control" name="email-address"
value={JSON.parse(this.props.location.state[0]).datetime} readOnly/>
                              </div>
```

```
                    </div>
                    <div className="form-group row">
                      <label for="email_address" className="col-md-4 col-form-labeltext-md-right">Place:</label>
                      <div className="col-md-6">
                        <input type="text" id="email_address" className="form-control" name="email-address" value={JSON.parse(this.props.location.state[0]).place} readOnly/>
                      </div>
                    </div>
                    <div className="form-group row">
                      <label for="email_address" className="col-md-4 col-form-labeltext-md-right">Reported By:</label>
                      <div className="col-md-6">
                        <input type="text" id="email_address" 
                    className="form-control" name="email-address" 
                    value={JSON.parse(this.props.location.state[0]).rb} readOnly/>
                      </div>
                    </div>
                    <div className="form-group row">
                      <label for="email_address" className="col-md-4 col-form-labeltext-md-right">Previous Offences:</label>
                      <div className="col-md-6">
                        <input type="text" id="email_address" className="form-control" name="email-address" value={this.state.previous_offence} readOnly/>
                      </div>
                    </div>
                    <div className="form-group row">
                      <label for="email_address" className="col-md-4 col-form-labeltext-md-right">Total Fine to Paid:</label>
                      <div className="col-md-6">
```

```
                        <input type="text" id="email_address" className="form-control" name="email-address" value={this.state.previous_penalty} readOnly/>
                    </div>
                </div>
                <div className="col-md-6 offset-md-4">
                    <button onClick={this.clickedPaidHandler}  className="btn btn-primary">
                        Confirm/Paid
                    </button>
                    <hr></hr>
                    <button  onClick={this.clickedUnpaidHandler} className="btn btn-primary">
                        Unpaid
                    </button>
                </div>
            </div>
        </div>
```

```
            </div>
          </div>
          </div>

        </main>
        </div>
      )
    }
}
export default Page3;
```

End User:-

```
import React, { Component } from 'react'; import
{Button,Jumbotron} from 'reactstrap';import {
Link } from "react-router-dom";
import { FontAwesomeIcon } from '@fortawesome/react-fontawesome'; import
{ faSignInAlt,faUserPlus } from '@fortawesome/free-solid-svg-icons';import
Image from './assets/new.png';
import Modal from './Modal';
import Login from './loginFormuser';import
'./openingpageuser.css';
class User extends Component{state={
      loginClicked:false
   }
   colorchange=()=>{
      document.body.style.backgroundColor=" #bdeaee "
   }
   loginClickedHandler=()=>{
```

```
    this.setState({loginClicked: true});
  }
  closeHandler=()=>{
    this.setState({loginClicked: false});
  }
  render(){return(
      <div>
        <Modal show={this.state.loginClicked}>
          <Login modelClosed={this.closeHandler}/>
        </Modal>
        {this.colorchange()}
        <div className='new'>
          <img src={Image}></img>
        </div>
        <hr></hr>
        <div >
          <nav className='di'>
            <ul className='ul'>
              <li className='li'>
                <Button onClick={this.loginClickedHandler}><FontAwesomeIcon
icon={faSignInAlt}/> LOGIN</Button>
              </li>
              <li className='li'>
                <Link to='/res' className='a'><Button><FontAwesomeIcon
icon={faUserPlus}/>Register</Button></Link>
              </li>
            </ul>
            <p>Already Have a owner Id ?<Link to='/already'><Button color='link'>Add
Vehicle</Button></Link></p>
          </nav>
```

```
            </div>
            <hr></hr>
            <div style={{backgroundColor:'#a8e6cf '}}>
            <h1 style={{textAlign:'center'}}>ONLINE TRAFFIC MANAGMENT
SYSTEM</h1>
            </div>
            <hr></hr>
            <div className='container'>
            <Jumbotron>
               <h1 className="display-3">Road safety is a state of mind,</h1>
               <h1 className="display-3">Accident is an absence of mind.</h1>
               <p className="lead" style={{paddingLeft:'36em'}}>Alert today – Alivetomorrow...</p>
            </Jumbotron>
            </div>


         </div>
      )
   }
}
export default User;
```

Server Side Code:-

```
const express = require("express");const
app=express();
const mysql = require('mysql'); const
cors=require('cors');
var session = require('express-session'); var
```

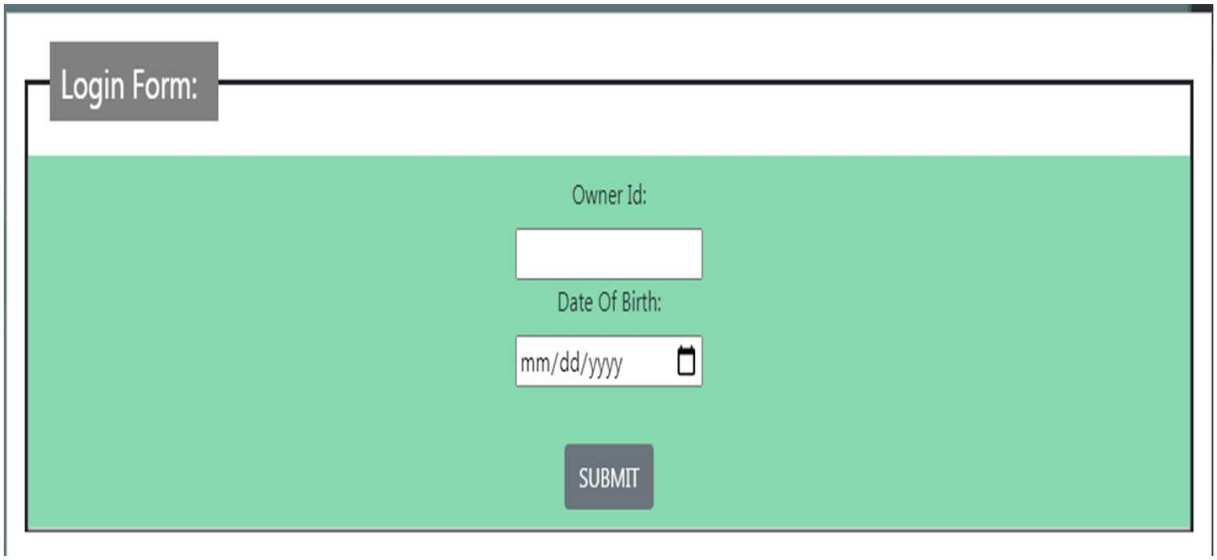
```
nodemailer = require('nodemailer'); var
bodyParser = require('body-parser');
const { request, response } = require("express"); var
connection = mysql.createConnection({
        host    : 'localhost',user
                : 'root',
        password : 'xxxdon0306', database :
        'traffic_offence_system'
});
app.use(session({
        secret: 'secret',resave:
        true,
        saveUninitialized: true
}));
app.use( express.urlencoded({
   extended: true
   })
 )
app.use(express.json())app.use(cors());
app.post('/post',function(request,response){
   var obj = JSON.parse(request.body.user_info);
   connection.beginTransaction(function(err){
     if(err){ throw err;
     }
     connection.query("call
insertion(?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?)",[obj.vehicleNumber,obj.vehicleType,o
bj.eno,obj.mno,obj.vname,obj.vcolor,obj.mn,obj.dom,obj.noc,obj.cc,obj.fused,obj.dop,obj.dis
name,obj.fname,obj.lname,obj.dob,obj.mobileno,obj.gender,obj.email,obj.tadd,obj.padd,obj.p
code,obj.occu,obj.pcard,obj.addp],function(error,results,field){
```

```
      if(error){ connection.rollback(function(){
         response.send('Transaction Incomplete')
         // throw error

       })
      }
      else{

         response.send('Transaction Completed')
         // console.log(result)
      }
      connection.commit(function(err) {if
      (err) { connection.rollback(function() {
       });
      }
   })
 })
})
})
app.get('/no',function(request,response){
 connection.query('select * from offence',function(error,results,field){if(error){
    console.log(error);
   }
   else{ response.send(results)
    // console.log(results);
   }
 })
})
```

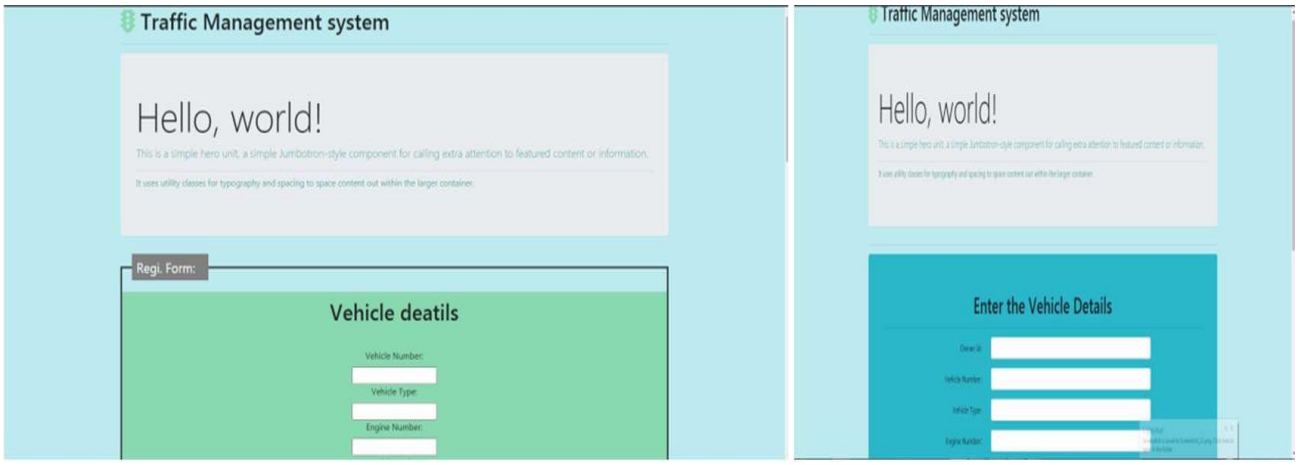
CHAPTER 6

SNAPSHOTS

1. User Opening Page



2. Login Page User

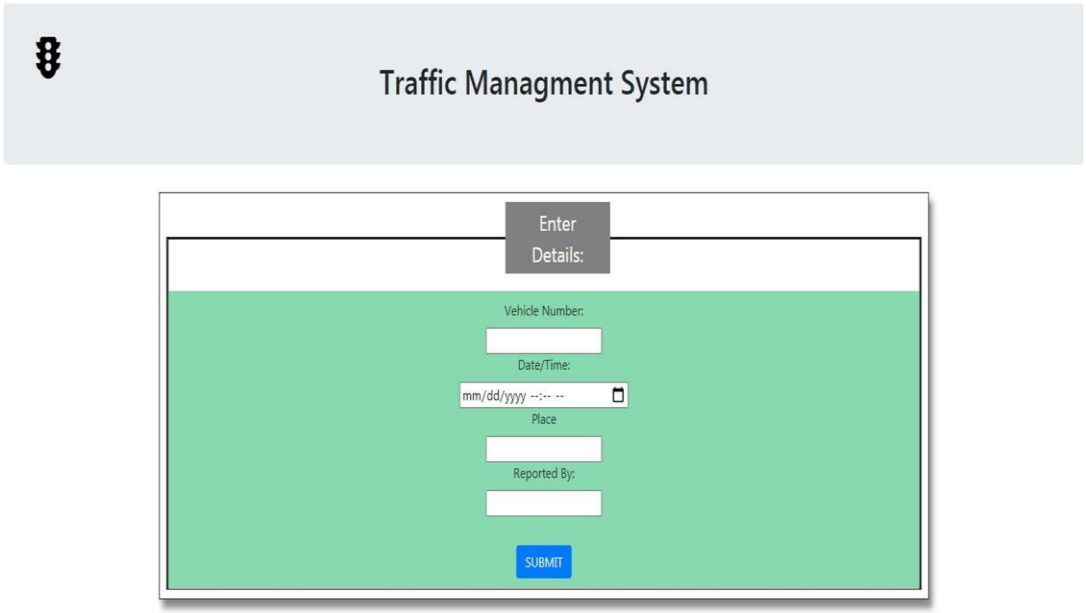


3. New Register/Existing Registration

Vehicle Number	Date/Time	Place	Offence Id	Reported By	Vehicle Status	Payment
2	2020-12-10T14:16:00.000Z	3e	Talking on mobile phone while driving	34	Payment Done From Office	Paid
2	2020-12-11T14:17:00.000Z	www	Driving uninsured vehicle	e3e	Payment Done From Office	Paid
2	2020-12-02T14:17:00.000Z	www	Driving at excessive speed	d	Payment Done From Office	Paid
2	2020-12-04T14:18:00.000Z	3e	Racing and trials of speed without permission	ee	Payment Done From Office	Paid
2	2020-12-02T14:18:00.000Z	www	Driving at excessive speed	e3	Payment Done From Office	Paid

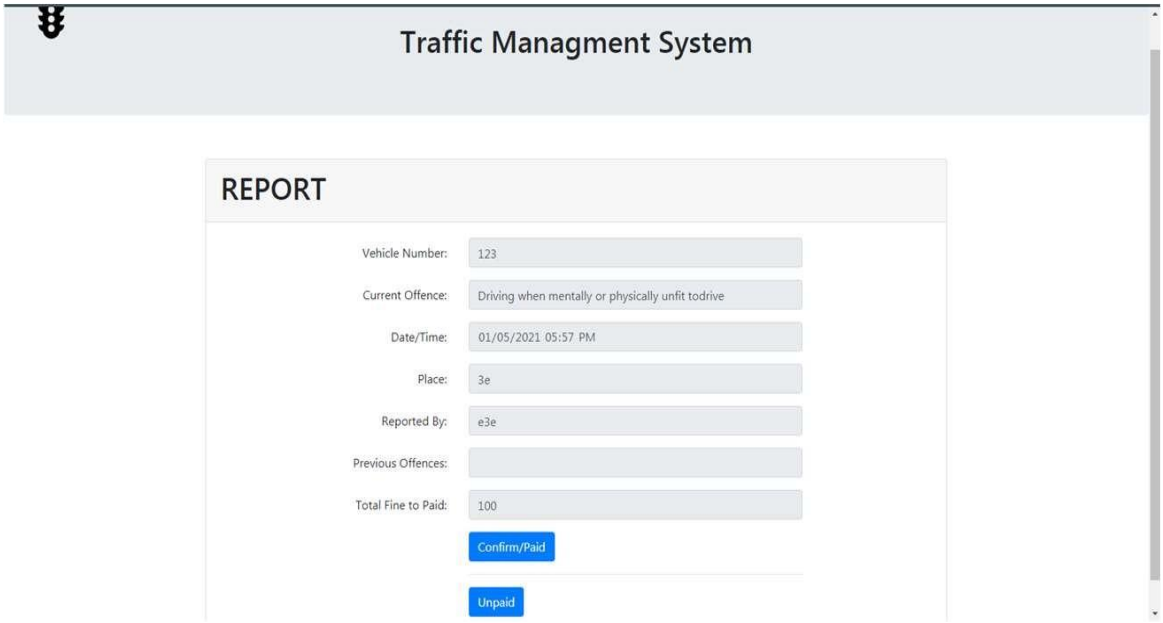
4. After Login User

Traffic Police End:-



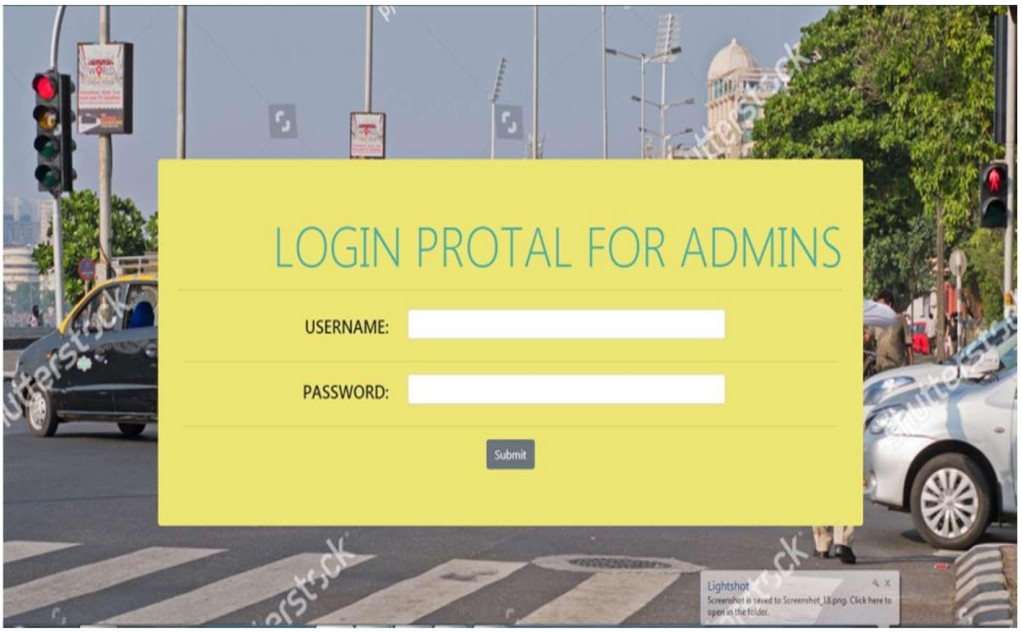
S.No	Nature of Offence	Type of Vehicles	Coupounding fee(Rs)
1	Driving when mentally or physically unfit to drive	All Vehicles	100
2	General offences	All Vehicles	5000
3	Driving vehicles without valid licence	All Vehicles	200
4	Driving at excessive speed	All Vehicles	200
5	Driving dangerously	All Vehicles	500
6	Racing and trials of speed without permission	All Vehicles	300
7	Talking on mobile phone while driving	All Vehicles	3000
8	Driving uninsured vehicle	All Vehicles	300
9	neewer3r3	All Vehicles	100

Click on the Nature of Offence to select the "OFFFENCE"

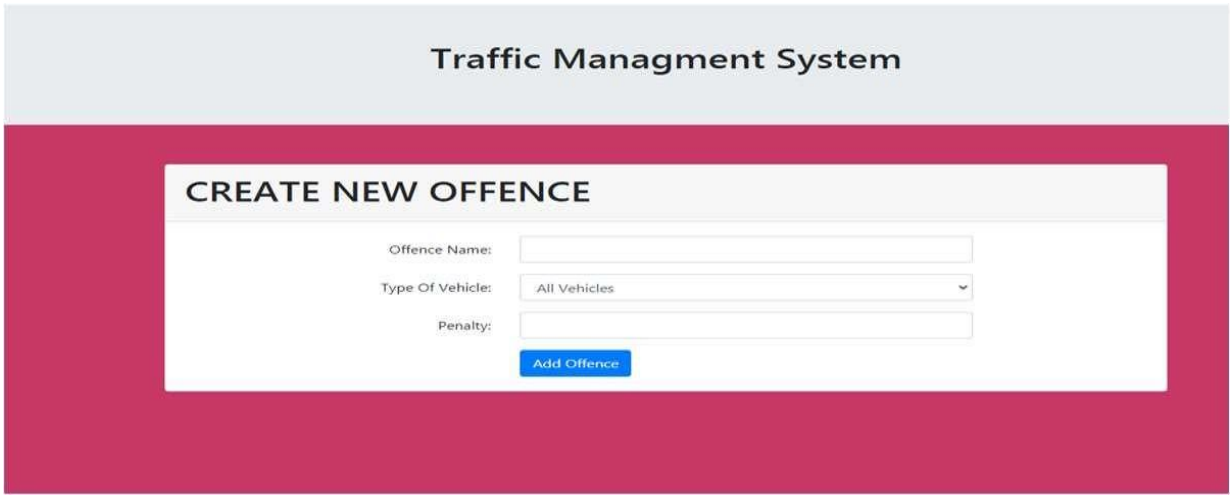


Report Generation

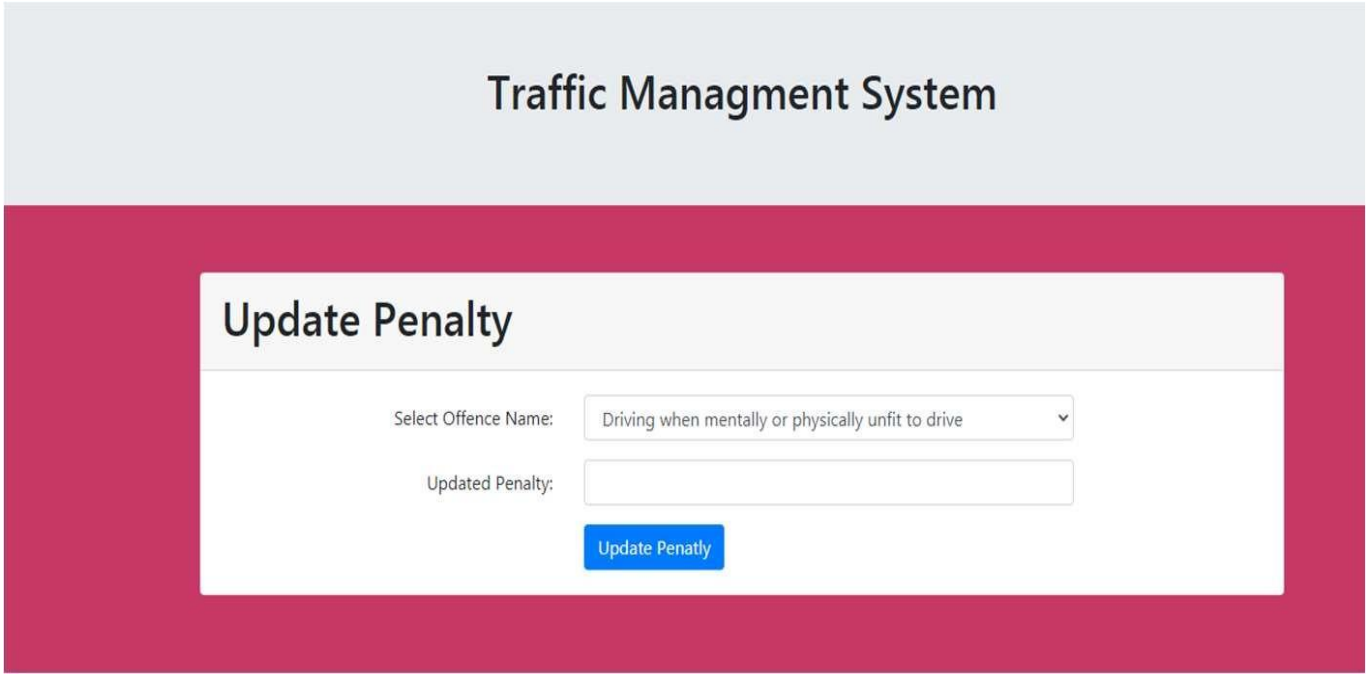
Admin End:-



Login Page



Add New Offence



Update Penalty

CHAPTER 7

CONCLUSION

In this mini project , we have successfully implemented the “Online Traffic Offence Management System” which helps all the end users present in the loop of this system. The traffic police end where report generation takes place, which was done manually in previous days can now be done with online report generation and this will reduce the paper work as well as manual work of the end users and the history of the offence can be kept track and be accessible with the help of the information stored in the database, from both the end ,payment of the offence can be paid through cash and the further extension of the project will give support of online payment system. The Application provide a friendly user interface and also reduces the amount of time for each end user.