

## Team Overview

<b>Ranpura Yash</b>	<b>Admin Panel Development, Designing</b>
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### **Idea Overview**

- Using these application people can complaint easily.
- Solution will be given easier.
- Anyone can see the map when they will open the application.
- They can search the area and see the series of poles there, after that they can select on poles and complaint about it.
- The objective of our definition is that if public sees that the street light is not working properly or any other problem then they can complaint in the application.
- On behalf of the complaint the government employees can easily detect the problem where pole is located.

### **Target Audience**

We are targeting local public who faces problems about complaining defected streetlights

### **Study of Similar Ideas**

There is no similar definition to solve street light complaint problem.

The complaints are registered manually through phone calls.

General public can make calls to amc department and registered their complaints.

But amc employees are facing difficulties in finding exact location of pole.

### **Market Research & Study of survey**

- As per our market research there is no unique identification for street poles right now.
- We conducted the survey and found some problems regarding the complaint system that is not much digital right now, so our solution is going to help them out solve problems easily.
- As per the survey there is around one hundred thousand poles in whole Ahmedabad.
- In the current time AMC get the complaint via phone call.
- When complaint comes about the pole, AMC employees faces difficulties to find out that pole.
- They cannot identify the problem regarding the pole.

## Database Design

### Table Name: Admin\_table

Field name	Data Type(Size)	Constraint	Description
admin_id	Int(11)	Primary Key	Unique id for admin table
Email_id	Varchar(20)	Not Null	Email of admin
Password	Varchar(10)	Not Null	password of admin

### Table Name: Users

Field name	Data Type(Size)	Constraint	Description
users_id	Int(11)	Primary Key	Unique id for each user
Name	Varchar(20)	Not null	Name of user
Phone	Varchar(13)	Not null	Phone no. of user
Is_active	Int(2)	Not null	Status of user

**Table Name: worker\_table**

Field name	Data Type(Size)	Constraint	Description
Id	Int(11)	Primary Key	Unique id of worker table
Name	Varchar(20)	Not null	Name of worker
Mobile	bigint(11)	Not null	Mobile no. of worker
Email_id	Varchar(30)	Not null	Email id of worker
Worker_id	Int(11)	Not null	Unique ID of worker
Type	Varchar(20)	Not null	Type of worker
Is_active	Int(2)	Not null	Status of worker

## Street Light Solution

**Table Name: Pole\_table**

Field name	Data Type	Constraint	Description
pole_id	Int(11)	Primary Key	Unique id for each poll
Pole_char	Varchar(20)	Not null	Pole character
Pole_int	Int(5)	Not null	Unique Number on each poll
Area_name	Varchar(30)	Not null	Name of area
Ward_name	Varchar(30)	Not null	Name of ward
Pole_add	Varchar(100)	Not null	Address of pole
Asset_type	Varchar(30)	Not null	Name of asset (street light)
Bracket_type	Varchar(50)	Not null	Type of bracket (single/double)
Lamp_type	Varchar(30)	Not null	Type of lamp in walt
Longitude	Decimal(9,6)	Not null	longitude of pole location
Latitude	Decimal(9,6)	Not null	Latitude of pole location
Is_active	Int(2)	Not null	Status of pole

## Street Light Solution

**Table Name: Common\_problems**

Field name	Data Type(Size)	Constraint	Description
Com_prob_id	Int(11)	Primary Key	Unique id for common problems
Com_prob_name	Varchar(20)	Not Null	Name of the common problem
Is_active	Int(2)	Not Null	Status of problem

**Table Name: Area\_table**

Field name	Data Type(Size)	Constraint	Description
area_id	Int(11)	Primary Key	Unique ID of area
area_name	Varchar(20)	Not Null	Area name
Is_active	Int(2)	Not Null	Status of area

**Table Name: complaint\_table**

Field name	Data Type(Size)	Constraint	Description
complaint_id	Int(5)	Primary Key	Unique ID of complaint
Pole_number	int(11)	Foreign key	Unique pole number
Com_prob_name	Varchar(50)	Not Null	Name of the common problem
Description	Varchar(255)	Not Null	Common problem description
Is_active	Int(2)	Not Null	Status of complaint

**Table Name: comp\_assign\_table**

Field name	Data Type(Size)	Constraint	Description
Comp_id	Int(11)	Primary Key	Unique id for complaint assign table
Complaint_id	Int(11)	Foreign key	Unique ID of complaint
Id	Int(11)	Foreign key	Unique ID of worker table
Is_active	Int(2)	Not null	Status of assigned complaint



**Table Name: Ward\_name\_table**

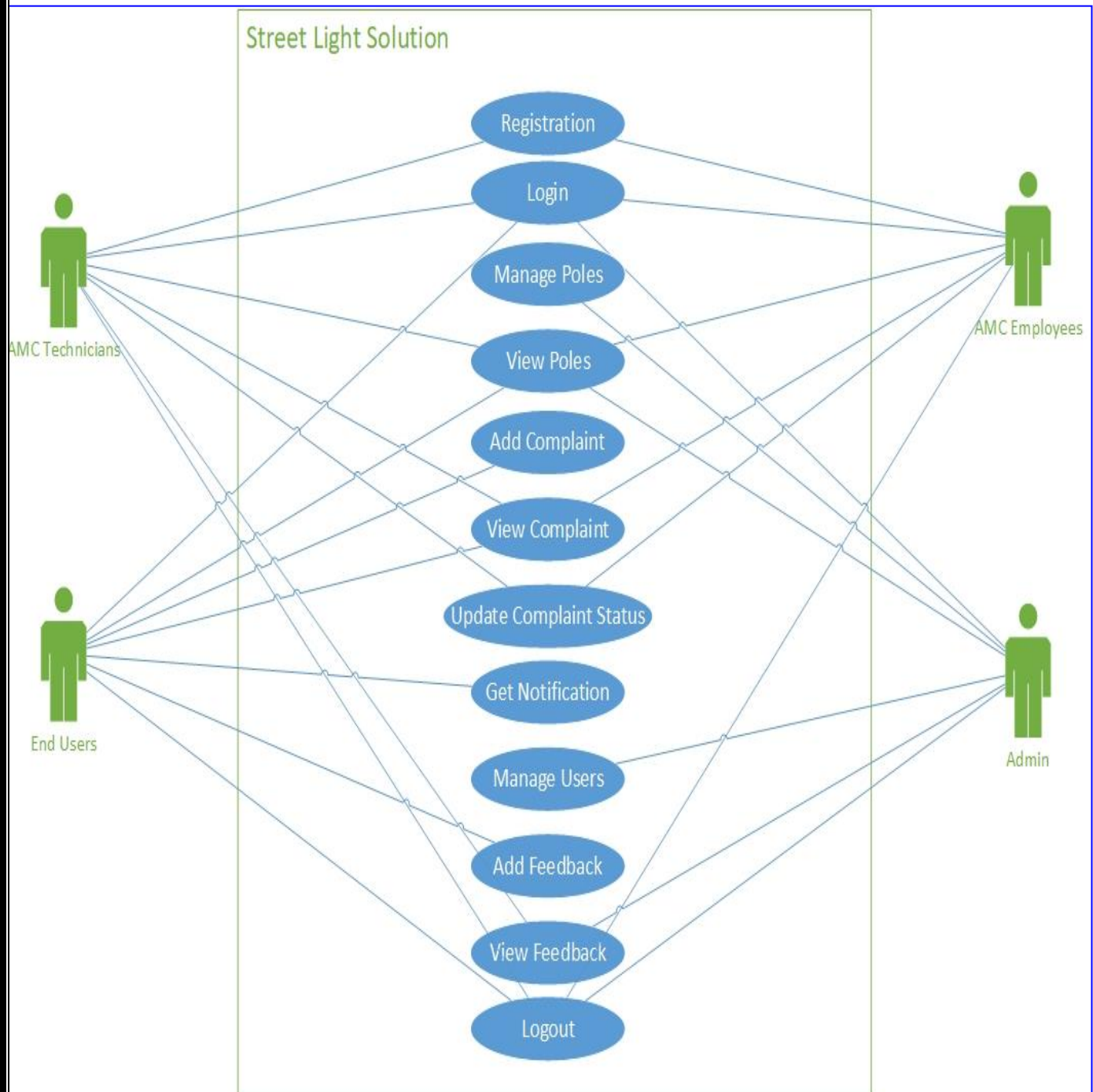
Field name	Data Type(Size)	Constraint	Description
ward_id	Int(11)	Primary Key	Unique id for each ward
Ward_name	Varchar(20)	Not null	Name of particular ward
Area_id	Int(11)	Foreign key	Unique ID of area
Is_active	Int(2)	Not null	Status of ward

**Table Name: Feedback\_Master**

Field name	Data Type(Size)	Constraint	Description
feedback_id	Int(11)	Primary Key	Unique id for feedback
Complaint_id	Int(11)	Not null	Unique ID of complaint
Description	Varchar(30)	Not null	Description of feedback
User_id	Int(11)	Not null	Unique ID of user

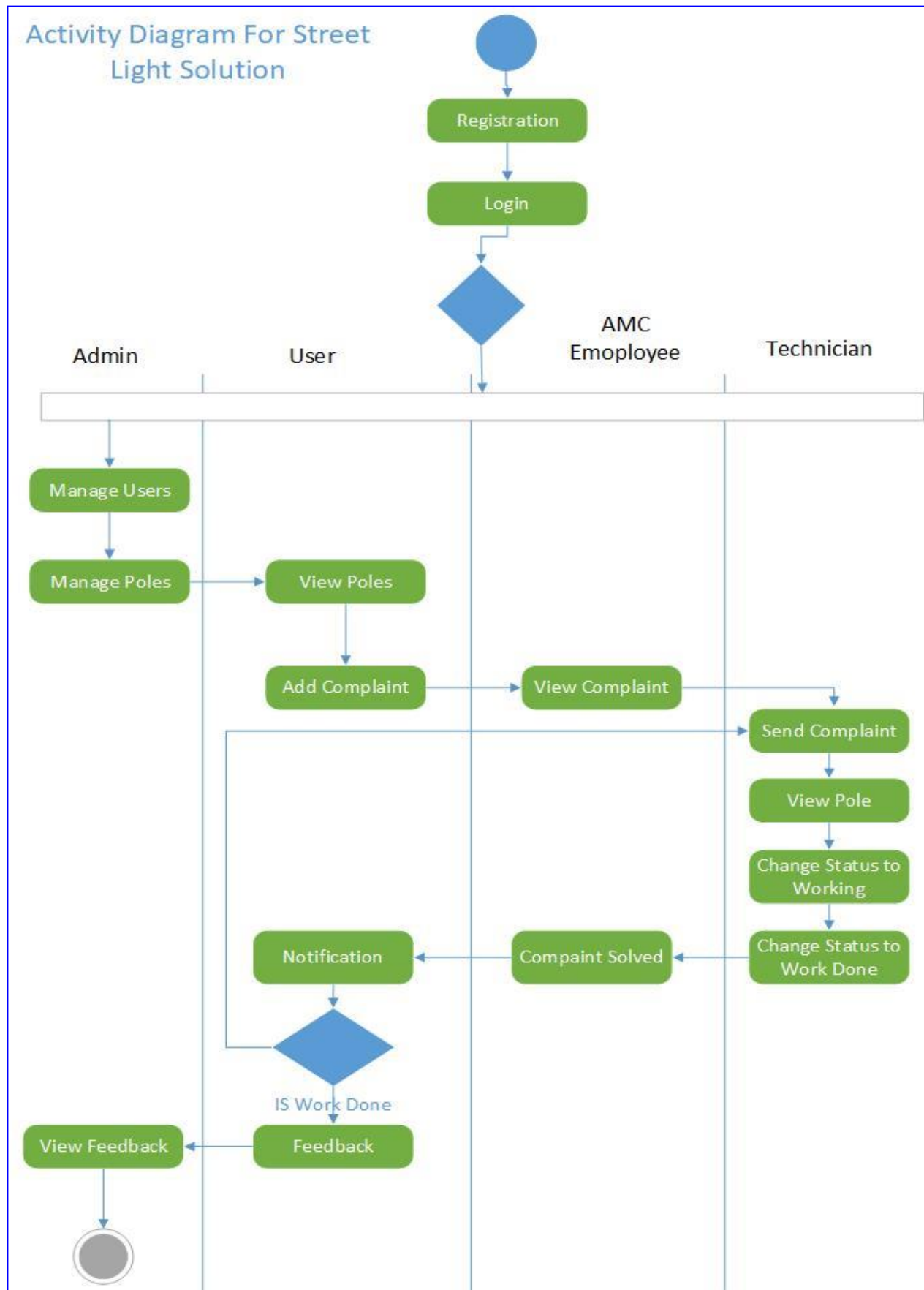
## Street Light Solution

### Use Case Diagram

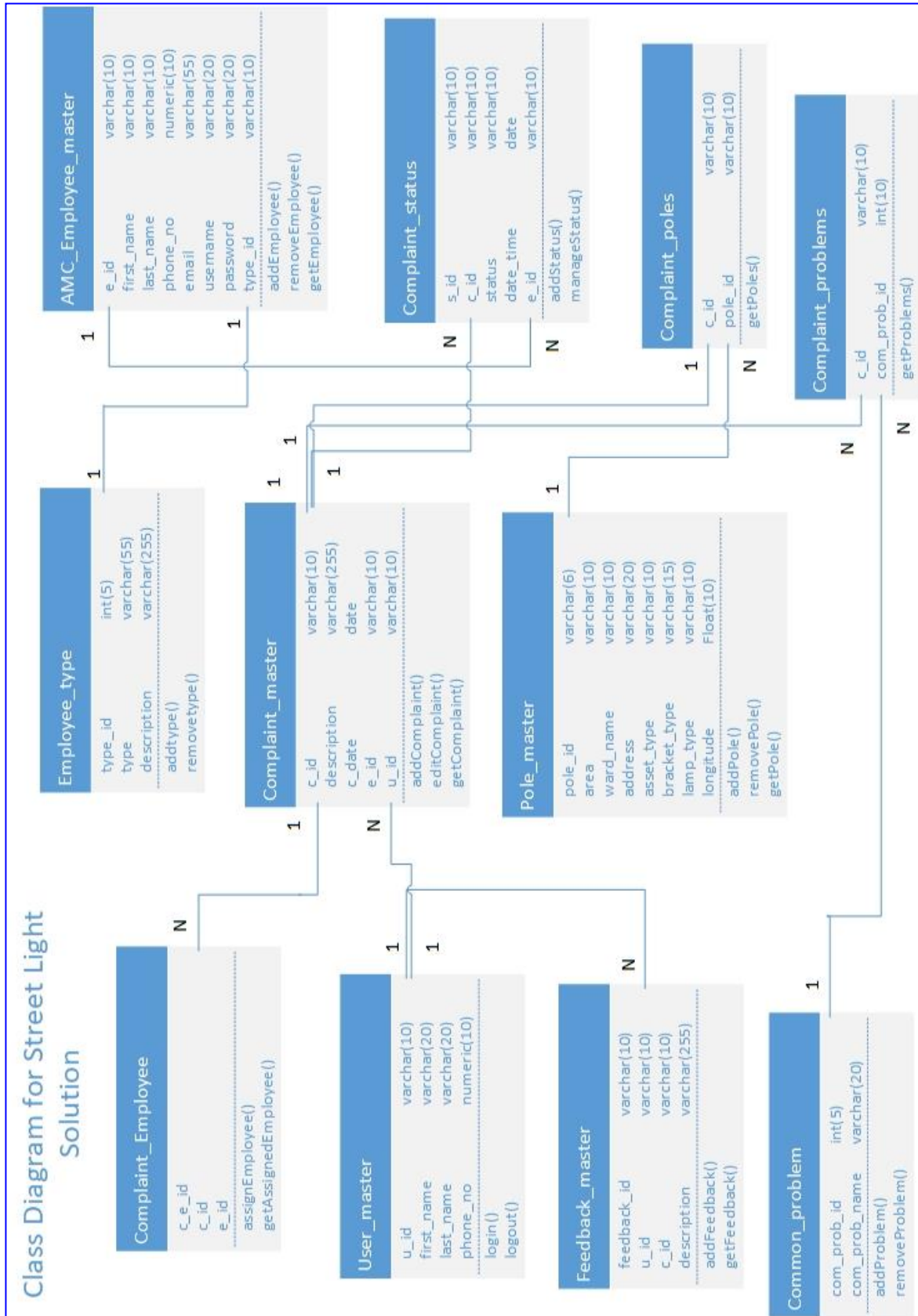


## Street Light Solution

### Activity Diagram

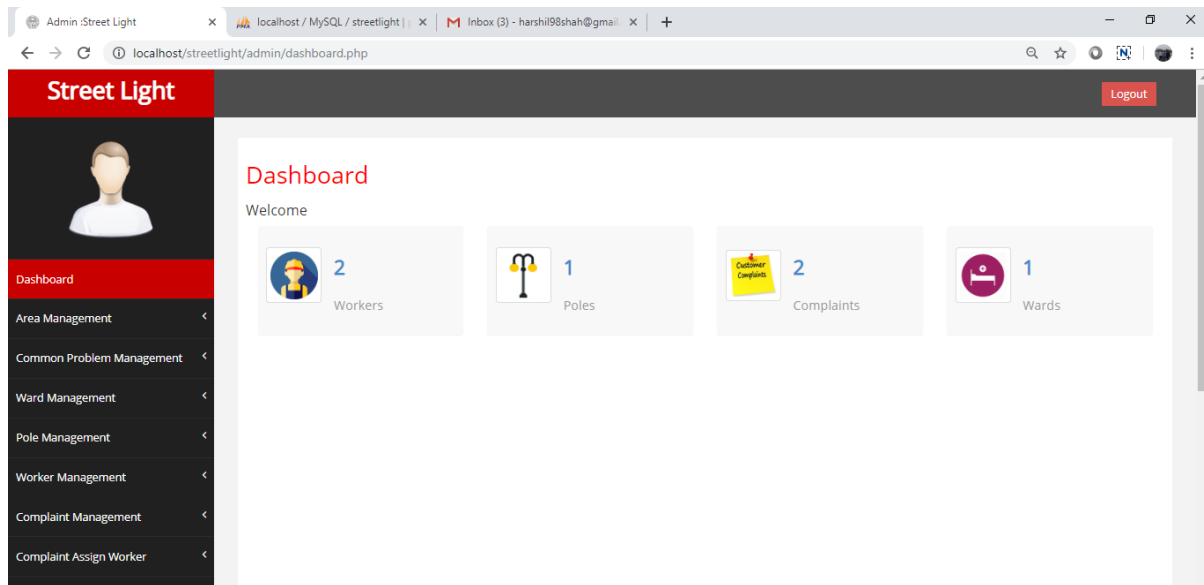


## Class Diagram



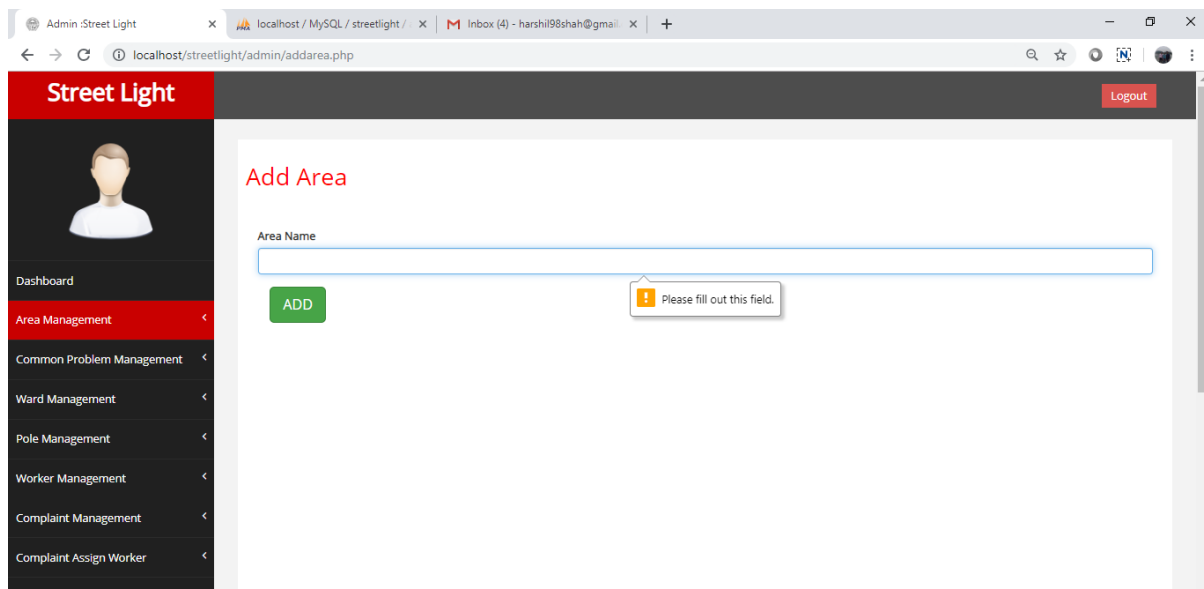
# Street Light Solution

## Dashboard page



Description: Admin panel dashboard page.

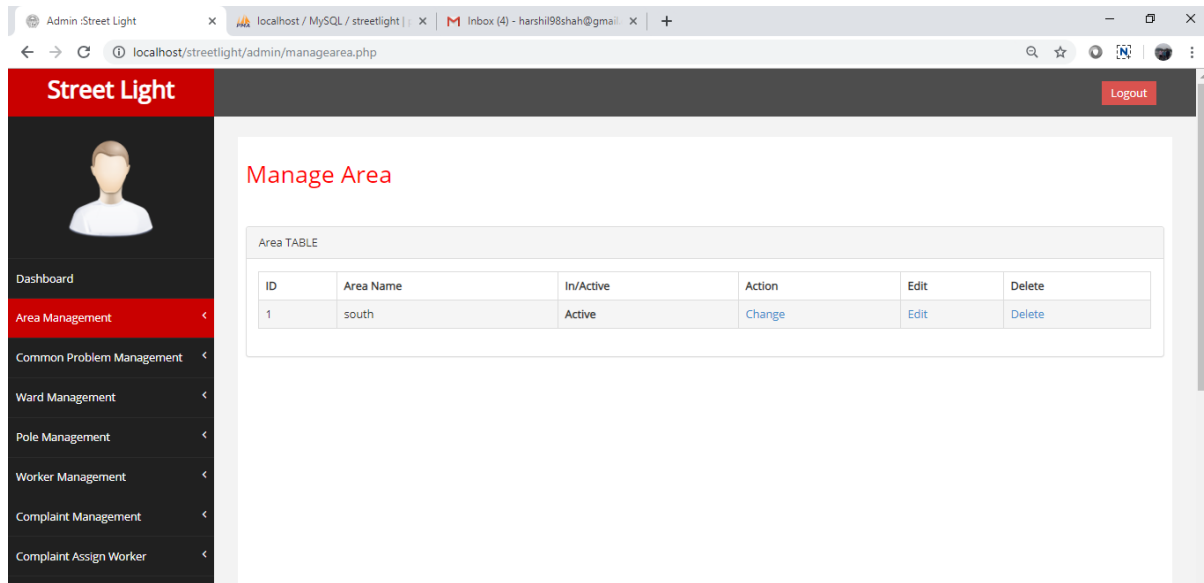
## Addarea page



Description: Admin will add area.

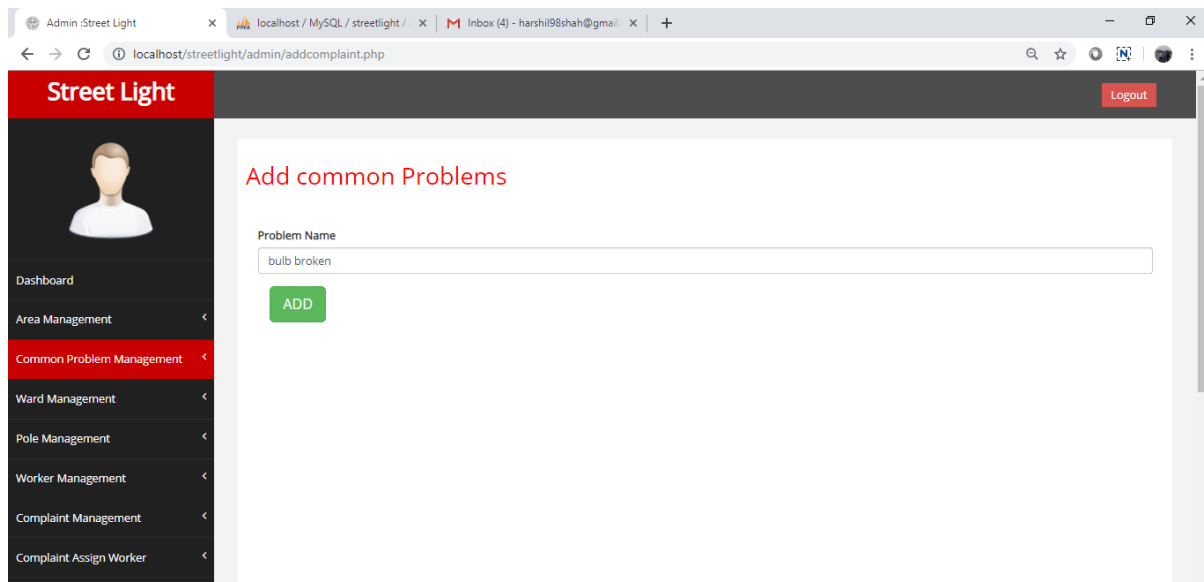
# Street Light Solution

## Manage area page



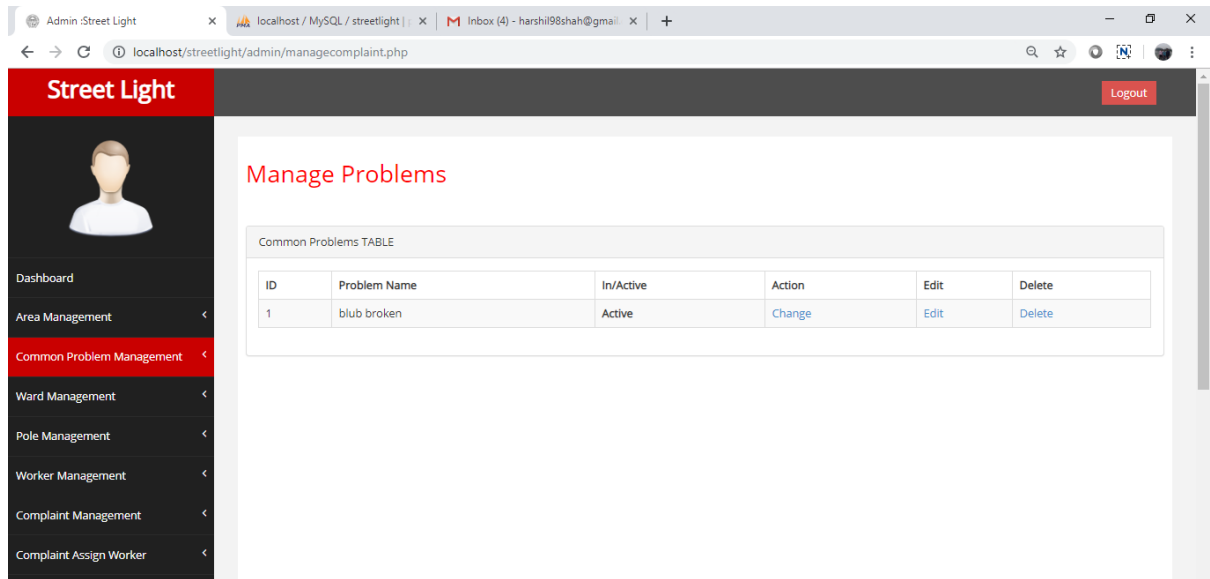
Description: Admin will manage area.

## Add common problems page



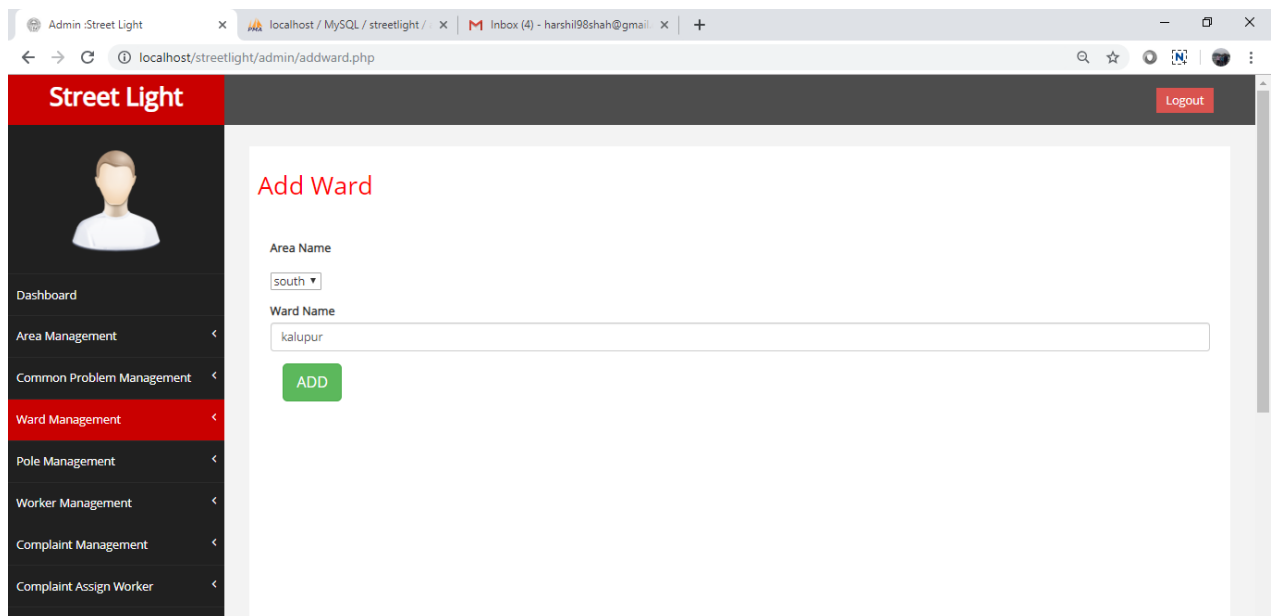
Description: Admin will add list of common problems

## Manage common problem page



Description: Admin will manage common problem list.

## Add ward page



Description: Admin will add ward

# Street Light Solution

## Manage ward page

The screenshot shows the 'Manage Ward' page in the Street Light Solution admin interface. The page has a dark sidebar on the left with a user profile icon and a list of menu items: Dashboard, Area Management, Common Problem Management, Ward Management (highlighted in red), Pole Management, Worker Management, Complaint Management, and Complaint Assign Worker. The main content area is titled 'Manage Ward' and contains a table labeled 'Ward TABLE'. The table has columns for ID, Ward Name, Area Name, In/Active, Action, Edit, and Delete. There is one row of data with ID 1, Ward Name 'kalupur', Area Name 'south', and In/Active status 'Active'. The Action column contains a 'Change' link, the Edit column contains an 'Edit' link, and the Delete column contains a 'Delete' link. A 'Logout' button is visible in the top right corner of the sidebar.

ID	Ward Name	Area Name	In/Active	Action	Edit	Delete
1	kalupur	south	Active	<a href="#">Change</a>	<a href="#">Edit</a>	<a href="#">Delete</a>

Description: Admin will manage ward details.

## Add pole page

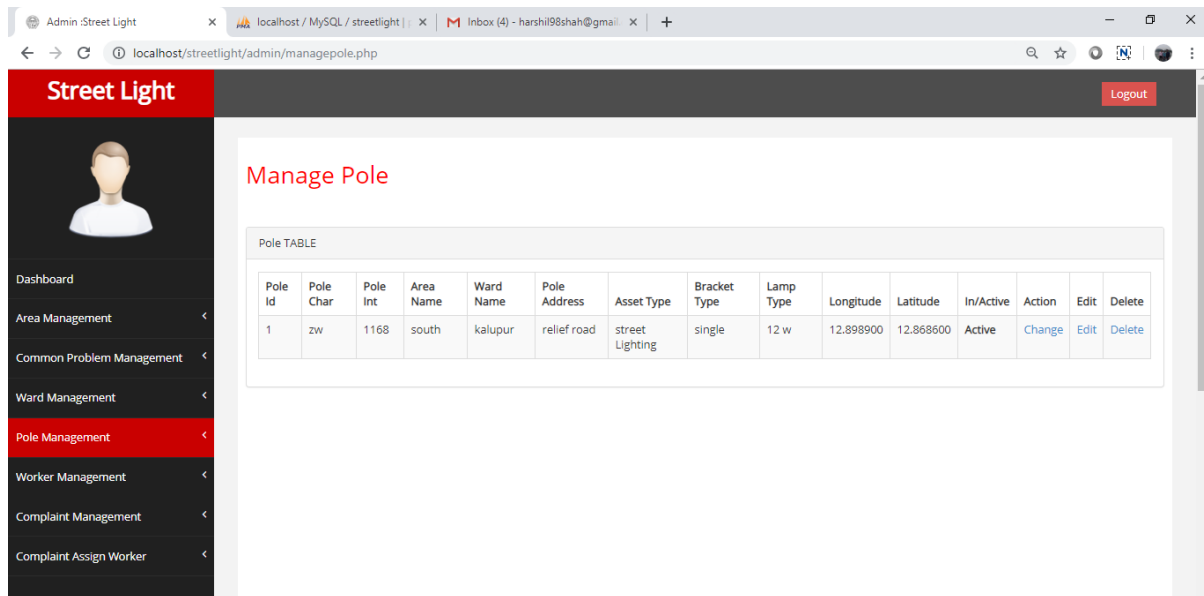
The screenshot shows the 'Add pole' page in the Street Light Solution admin interface. The page has a dark sidebar on the left with a user profile icon and a list of menu items: Dashboard, Area Management, Common Problem Management, Ward Management, Pole Management (highlighted in red), Worker Management, Complaint Management, and Complaint Assign Worker. The main content area is titled 'Add pole' and contains a form with the following fields: Pole Char (text input with value '1'), Pole Int (text input with value 'zw'), Area (dropdown menu with value 'south'), Ward (dropdown menu with value 'kalupur'), pole address (text input with value 'relief road'), Asset Type (radio button selected for 'Street Lighting'), Bracket Type (radio buttons for 'Single Arm', 'Double Arm', and 'Three Arm'), Lamp Type (radio buttons for '06 W', '12 W', and '18 W'), longitude (text input with value '12.899900'), and latitude (text input with value '12.868600'). A green 'ADD' button is at the bottom of the form. A 'Logout' button is visible in the top right corner of the sidebar.

Description: Admin will add pole details.



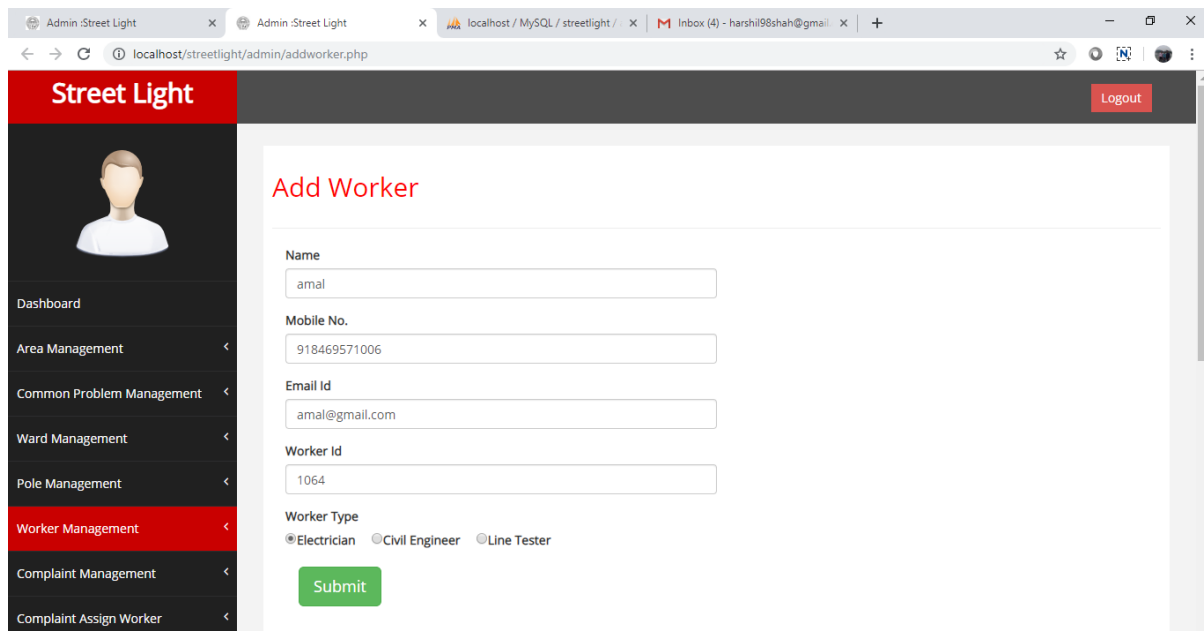
# Street Light Solution

## Manage pole page



Description: Admin will manage pole details

## Add worker page



Description: Admin will add AMC worker details

## Manage worker page

The screenshot shows the 'Manage Worker' page. The left sidebar contains a menu with 'Worker Management' highlighted. The main content area displays a table titled 'Worker TABLE' with the following data:

ID	Name	Mobile	Email_Id	Worker_Id	Type	In/Active	Action	Delete
1	amal	918469571006	amal@gmail.com	1064	Electrician	Active	<a href="#">Change</a>	<a href="#">Delete</a>
2	harshil	919586095789	harshil98shah@gmail.com	123	Civil	Blocked	<a href="#">Change</a>	<a href="#">Delete</a>
3	ravi	919978859141	ravi@gmail.com	25	Line Tester	Active	<a href="#">Change</a>	<a href="#">Delete</a>

Description: Admin will manage AMC worker details

## Assign complaint page

The screenshot shows the 'Complaints' page. The left sidebar contains a menu with 'Complaint Management' highlighted. The main content area displays a table titled 'Complaints TABLE' with the following data:

ID	User_Id	Pole Number	Problem Name	Description	Type	Assign Worker	status	Status_action	Is_Active	Action	Delete
1	1	1166	bulb broken	bulb broken	Electrician	<a href="#">Assign Worker</a>	pending	<a href="#">Change</a>	Active	<a href="#">Change</a>	<a href="#">Delete</a>
2	2	1144	dim light	dim light	Electrician	<a href="#">Assign Worker</a>	pending	<a href="#">Change</a>	Active	<a href="#">Change</a>	<a href="#">Delete</a>

Description: Admin will assign complaint to worker and change status of complaint

# Street Light Solution

## Assign workers page

The screenshot shows the 'Assign Worker' page in the Street Light Solution admin interface. The page has a dark sidebar with a user profile icon and a menu including Dashboard, Area Management, Common Problem Management, Ward Management, Pole Management, Worker Management, Complaint Management, and Complaint Assign Worker. The main content area is titled 'Assign Worker' and contains a table labeled 'Assign Worker TABLE'.

ID	Name	Mobile	Email_Id	Worker_Id	Type	In/Active	Action	Delete
1	amal	918469571006	amal@gmail.com	1064	Electrician	Available	<a href="#">Assign Work</a>	<a href="#">Delete</a>

Description: complaint will be assigned to the worker

## Complaint assign worker page

The screenshot shows the 'Complaint Assign Worker' page in the Street Light Solution admin interface. The page has a dark sidebar with a user profile icon and a menu including Dashboard, Area Management, Common Problem Management, Ward Management, Pole Management, Worker Management, Complaint Management, and Complaint Assign Worker. The main content area is titled 'Complaint Assign Worker' and contains a table labeled 'Complaint Assign Worker TABLE'.

Comp_Id	User_Name	Complaint_Name	Worker_Name	In/Active	Action	Delete
1	ravi	bulb broken	harshil	Active	<a href="#">Change</a>	<a href="#">Delete</a>

Description: Assigned complaint status details

### Core Code Snippets

```
<form action="usercomplaintassign.php">

    <td>

        <select name="type">

            <option value="Electrician">Electrician</option>

            <option value="Civil">Civil</option>

            <option value="Line Tester">Line Tester</option>

        </select>

    </td>

    <td>

        <input type="hidden" name="complaint_id" value="<?php echo
$row['complaint_id']; ?>">

        <input type="hidden" name="user_id" value="<?php echo
$row['user_id']; ?>">

        <?php
$is_active = $row['is_active'];
if($is_active=='0')
{
    echo '<input type="submit" name="submit" value="Assign Worker"
class="btn btn-primary" disabled />';
}
else
{
    echo '<input type="submit" name="submit" value="Assign Worker"
class="btn btn-primary">';
}

?>
```

## Street Light Solution

```

        </td>

    </form>

    <td><b><?php if($row['status']==25){ echo
"pending";}elseif($row['status']==50){
    echo "on View";}elseif($row['status']==75){
    echo "on process";} else { echo "Completed";} ?></b></td>

    <td><a href="actionstatus.php?id=<?php echo $row['complaint_id']; ?>&
        status=<?php echo $row['status']; ?>">Change</a></td>

    <th><?php if($row['is_active']==1){echo "Active";}else{echo "Blocked";}
?></th>

    <td><a href="actionusercomplaint.php?complaint_id=<?php echo
$row['complaint_id']; ?>&status=<?php echo $row['is_active']; ?>">Change</a></td>

    <!--<td><a href="editusercomplaint.php?complaint_id=<?php echo
$row['complaint_id']; ?>">Edit</a></td>!-->

```

### **Future Directions**

We decided to go with developing some hardware chipsets which can detect the problems happened in the pole.

The problem which is detected is shown to the respected government employee in a website.

Also, we are developing AI based application, which helps to provide direct solution.

## **Appendix, List of Abbreviations and References**

AI – Artificial Intelligence

Hardware chipset – One type of chip that identify direct updates on particular server.

### **Reference :-**

1:- [www.w3school.com](http://www.w3school.com)

2:- <https://ahmedabadcity.gov.in/portal/index.jsp>

3:- <https://www.stackoverflow.com>