

# RGUKT Campus Maintenance System

Under the Guidance of **B.Lingamurthy Sir**



## TEAM



**Tippiri Chandana**

R170570

Frontend Developer  
For User Interface



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R170981

Backend Developer  
For User Interface



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R170567

Frontend Development  
For Electric Interface



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Backend Development  
For Electric Interface



## Agenda

1. Aim
2. Introduction
3. Intended Audience
4. Technologies and Frameworks
5. Functions
6. Features
7. Qualities
8. Outcomes



## AIM

- To provide a responsive, secure, user friendly and browser Independent website to address maintenance issues (like Electrical, Plumbing, IT, or Civil works) of the Institution.



## INTRODUCTION

Generally, to address any issue related to maintenance like electrical, plumbing, IT or civil works every individual need to visit concern department. It is difficult for a student or Faculty to visit a certain Maintenance department every time to address their problem or to check their problem status. So, our idea is to bring a website to address their issues or complaints to the maintaining departments (like electrical, plumbing, IT, or civil works) or to the administration, because physical involvement is always difficult. Even Administration can easily know all complaints details and solve those issues accordingly.



## INTENDED AUDIENCE

- ▀ Students
- ▀ Faculty
- ▀ Authorized people from various Departments
- ▀ Administration



## Technologies and Frameworks

### Frontend

- HTML
- CSS
- JavaScript
- BootStrap



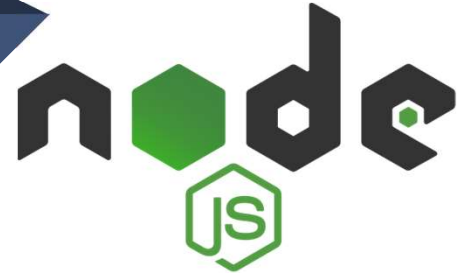
### Backend

- Node Js
- Express Js
- MySQL





## Node Js & Express Js



### ■ Node Js

Node.js (Node) is an open source development platform for executing JavaScript code server-side. Node.js is intended to run on a dedicated HTTP server and to employ a single thread with one process at a time. Node.js applications are event-based and run asynchronously.

### ■ Express Js

Express is a node Js web application framework that provides broad features for building web and mobile applications. It is used to build a single page, multipage, and hybrid web application. It's a layer built on the top of the Node Js that helps manage servers and routes.







## Functions

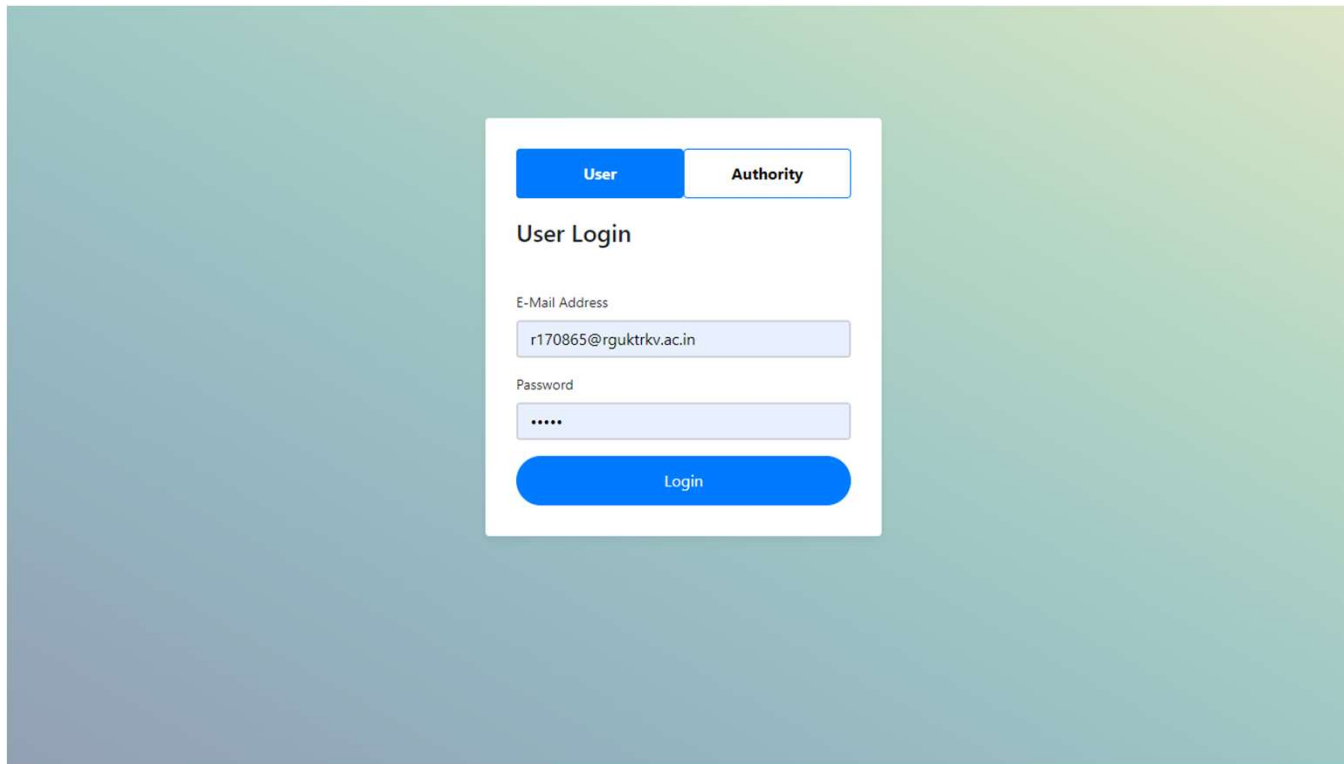
- User can register new complaints and can also check status of their complaints
- Authorized people from Electric Department can check the user raised complaints and can update the status of the complaint.
- Electric Department head can assign complaints to Electricians and they can also make Duty Assignments.
- A two way verification is done to ensure whether the complaint is resolved or not.



## Home Page

- Two types of logins are provided in home page.
- When user login with their credentials then they directed to the User Interface.
- When an authorized person from Electrical Department logged in then they will be directed to Electrical Department Interface.

## Home Page



The image shows a 'User Login' form centered on a green-to-blue gradient background. The form is a white rectangle containing a tabbed interface with 'User' and 'Authority' tabs. The 'User' tab is selected. Below the tabs, the title 'User Login' is displayed. There are two input fields: 'E-Mail Address' with the value 'r170865@rguktrkv.ac.in' and 'Password' with masked characters '\*\*\*\*\*'. A blue 'Login' button is at the bottom of the form.

User	Authority
<b>User Login</b>	
E-Mail Address	
r170865@rguktrkv.ac.in	
Password	
*****	
Login	



## User Features

- User can raise new complaints(Request).
- User can check his/her complaints status.
- User can go through the complaints history.
- User can close the complaint once it solved.
- User profile
- Reset Password

# User Interface

## User Home Page

The screenshot shows the 'User Home Page' of the 'Maintenance System'. The page has a sidebar with 'Home' and 'Services' (expanded). The main content area features two cards: 'View Profile' with a user icon and a 'Click Here' button, and 'View All Complaints' with a clock icon and a 'Click Here' button. The top navigation bar includes a 'Menu' button and a user profile dropdown for 'Veda Prakash'.

## Request for Service

The screenshot shows the 'Request for Service' form. It includes fields for 'Service' (a dropdown), 'Service Description' (a text area), 'Location' (a dropdown), and 'Location Description' (a text area with a note: 'In case the location is outside building, select nearest building and give exact location in this Description'). At the bottom are 'Reset' and 'Save' buttons. The sidebar and top navigation bar are consistent with the previous page.

## Service Status

The screenshot shows the 'Service Status' table, titled 'Electric Service Request Status'. It displays a list of complaints with columns for ID, Date, Complaint, Location, Status, Electrician, Completed, and Reopen. The table shows three entries, all in 'Inprogress' status. Below the table, there are two red messages: 'Request for Status Update will be Activated After 24 Hours from Time Of Apply.' and 'Completed button will be Activated after department Solves/ Completes the Request.'

#	Complaint ID	Date	Complaint	Location	Status	Electrician	Completed	Reopen
1	20	Tue Aug 16 2022 16:20:16 GMT+0530 (India Standard Time)	Bulb Bulb Problem	BH2 T-143	Inprogress	Veda	Completed (with satisfactory)	Request for Status Update
2	21	Thu Aug 18 2022 09:05:28 GMT+0530 (India Standard Time)	Bulb Bulb	BH4 T-145	Inprogress	Srikanth	Completed (with satisfactory)	Request for Status Update
3	22	Sun Aug 21 2022 23:00:29 GMT+0530 (India Standard Time)	Socket qaqawa	BH2 wowows	Inprogress	Veda	Completed (with satisfactory)	Request for Status Update

## All Complaints

The screenshot shows the 'All Complaints' table, titled 'Electric Service Request Status'. It displays a list of complaints with columns for #, Complaint ID, Date, Complaint, Location, Status, and Electrician. The table shows nine entries with various complaint types and statuses. The top navigation bar includes a 'Menu' button and a user profile dropdown for 'Veda Prakash'.

#	Complaint ID	Date	Complaint	Location	Status	Electrician
1	23	2022-09-18T04:35:02.000Z	Fan Fan Is Not Working	BH2 BH2 backside	completed	Veda
2	22	2022-08-21T17:30:29.000Z	Socket qaqawa	BH2 wowows	Inprogress	Veda
3	21	2022-08-18T03:35:28.000Z	Bulb Bulb	BH4 T-145	Inprogress	Srikanth
4	20	2022-08-16T10:50:16.000Z	Bulb Bulb Problem	BH2 T-143	Inprogress	Veda
5	19	2022-08-16T10:28:46.000Z	Socket Socket Problem	BH2 T-136	completed	Veda
6	16	2022-08-08T17:11:26.000Z	Other h dtd f	BH2 dtdsf	completed	Veda
7	15	2022-08-08T16:25:50.000Z	Fan ndakdia dlasda	BH2 sdard	completed	Veda
8	14	2022-08-04T15:20:46.000Z	Socket knosndasdkalsd dsadisa	BH4 dsds	completed	Srikanth
9	13	2022-08-04T15:20:46.000Z	Socket knosndasdkalsd dsadisa	BH4 dsds	completed	Srikanth



## Electric Department Features

- They can check complaints raised by users.
- Can assign Electrician for complaints(will be done based on Location-Electrician Mapping).
- Can add/Remove Electricians
- Can add/Remove Locations
- Can Assign duties for electricians for different locations.
- Can close a complaint after Resolving it.
- If both user and Electrical department close the complaint then only it is marked as Completed.
- Reset Password

# Electric Department Interface

## Electric Department Home Page

Maintenance System [Menu](#) Home [Electrical Department](#)

Home


Service Requests ▾


Electricians ▾


Locations ▾

Duty Assignment

Inventory ▾

  
**Latest Requests**  
[Click Here](#)

  
**Duty Assignment**  
[Click Here](#)

  
**Inventory**  
[Click Here](#)

## In-Progress Requests

Maintenance System [Menu](#) Home [Electrical Department](#)

Home

Service Requests ▾

Electricians ▾

Locations ▾

Duty Assignment

Inventory ▾

### In-Progress Service Requests

#	Complaint ID	User MailID	Complaint	Location	Electrician	Action
1	1	r170865@rguktrkv.ac.in	Socket Problem	AB1 Near AB1	Chandana	<a href="#">Move to Pending</a> <a href="#">Close</a>
2	2	r170865@rguktrkv.ac.in	Socket Socket is not working Properly	BH1 T-136	Pavan	<a href="#">Move to Pending</a> <a href="#">Close</a>
3	3	r170570@rguktrkv.ac.in	Bulb Bulb is Not Glowing	GH2 T-130	Veda	<a href="#">Move to Pending</a> <a href="#">Close</a>
4	4	r170570@rguktrkv.ac.in	Fan Fan is Not working	AB2 S-18 class Second Fan from last	Veda	<a href="#">Move to Pending</a> <a href="#">Close</a>
5	5	r170981@rguktrkv.ac.in	Other Power is not Supplying to Dorm	BH2 S-98	Reddemma	<a href="#">Move to Pending</a> <a href="#">Close</a>

[Close All](#)

## List of Locations

Maintenance System [Menu](#) Home [Electrical Department](#)

Home

Service Requests ▾

Electricians ▾

Locations ▾

Duty Assignment

Inventory ▾

### Locations List

#	Location Name	Description
1	AB1	Ab1
2	AB2	Ab2
3	BH1	BH1
4	BH2	BH2
5	GH1	GH1
6	GH2	GH2

## Closed Requests

Maintenance System [Menu](#) Home [Electrical Department](#)

Home

Service Requests ▾

Electricians ▾

Locations ▾

Duty Assignment

Inventory ▾

Show: 10 entries

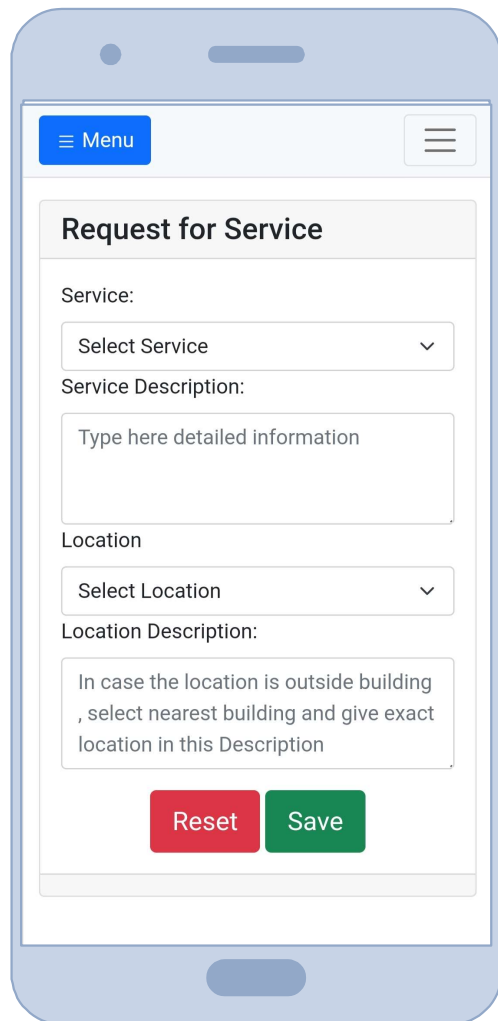
Search:

### Closed Service Requests

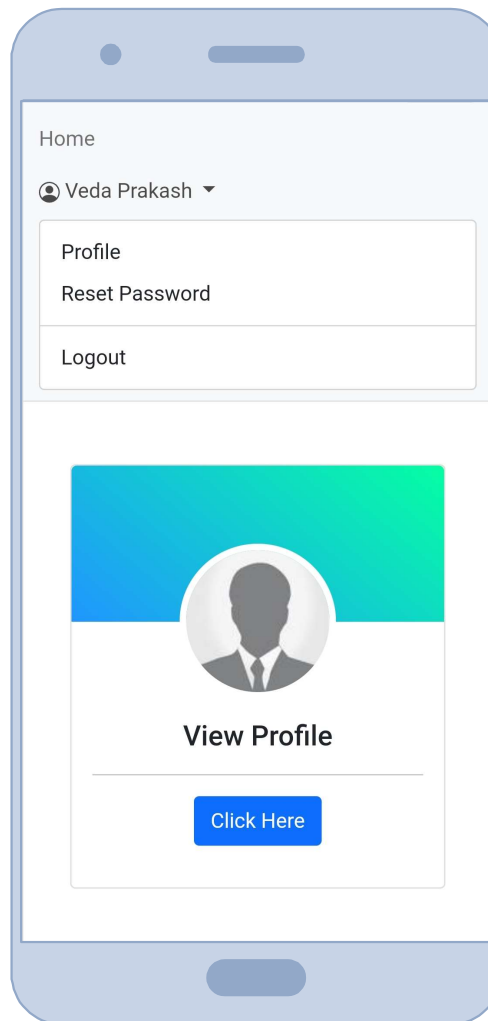
#	Complaint ID	Date	User MailID	Complaint	Location	Electrician
1	5	2022-09-19T15:04:08.000Z	r170981@rguktrkv.ac.in	Other Power is not Supplying to Dorm	BH2 S-98	Reddemma
2	4	2022-09-19T15:02:59.000Z	r170570@rguktrkv.ac.in	Fan Fan is Not working	AB2 S-18 class Second Fan from last	Veda
3	3	2022-09-19T15:02:17.000Z	r170570@rguktrkv.ac.in	Bulb Bulb is Not Glowing	GH2 T-130	Veda
4	2	2022-09-19T15:01:18.000Z	r170865@rguktrkv.ac.in	Socket Socket is not working Properly	BH1 T-136	Pavan
5	1	2022-09-19T07:10:52.000Z	r170865@rguktrkv.ac.in	Socket Problem	AB1 Near AB1	Chandana

Showing 1 to 5 of 5 entries

[Previous](#) [1](#) [Next](#)



Mobile app interface for 'Request for Service'. The screen features a top navigation bar with a 'Menu' button and a hamburger menu icon. The main content area is titled 'Request for Service' and contains several form fields: 'Service:' with a dropdown menu labeled 'Select Service', 'Service Description:' with a text input field labeled 'Type here detailed information', and 'Location' with a dropdown menu labeled 'Select Location'. Below these is a 'Location Description:' field with a text input field containing the instruction: 'In case the location is outside building , select nearest building and give exact location in this Description'. At the bottom, there are two buttons: 'Reset' (red) and 'Save' (green).



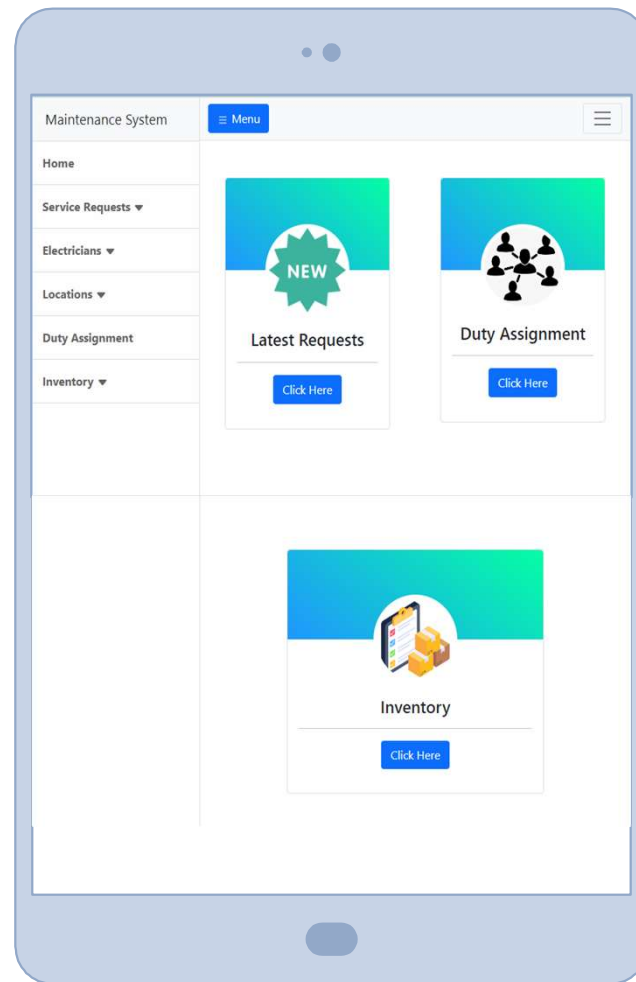
Mobile app interface for user profile. The screen shows a 'Home' header, a user profile section with a dropdown menu labeled 'Veda Prakash', and a list of options: 'Profile', 'Reset Password', and 'Logout'. Below this is a large profile picture placeholder with a blue and green gradient background. Underneath the profile picture is a 'View Profile' button. At the bottom, there is a 'Click Here' button.

## MOBILE VIEW

This Website is  
Compatable to all type of  
Mobile Devices.



## TABLET VIEW



## DESKTOP VIEW

Maintenance System

Menu

HomeElectrical Department

Home

Show 10 entries

Search:

Service Requests

Completed Service Requests

#	Complaint ID	Date	User MailID	Complaint	Location	Electrician
1	23	2022-09-18T04:35:02.000Z	r170865@rguktrkv.ac.in	Fan Fan is Not Working	BH2 BH2 backside	Veda
2	19	2022-08-16T10:28:46.000Z	r170865@rguktrkv.ac.in	Socket Socket Problem	BH2 T-136	Veda
3	17	2022-08-09T16:09:20.000Z	singamvedaprakash1234@gmail.com	Socket sd sdad asdasd	Bh4 dad sdad	Srikanth
4	16	2022-08-08T17:11:26.000Z	r170865@rguktrkv.ac.in	Other h dtd f	BH2 dtdsf	Veda
5	15	2022-08-08T16:25:50.000Z	r170865@rguktrkv.ac.in	Fan ndakdla dlaskda	BH2 sdasd	Veda
6	14	2022-08-04T15:20:46.000Z	r170865@rguktrkv.ac.in	Socket knosndasdkalsd dsadsa	Bh4 dsds	Srikanth
7	13	2022-08-04T15:20:46.000Z	r170865@rguktrkv.ac.in	Socket knosndasdkalsd dsadsa	Bh4 dsds	Srikanth
8	12	2022-08-03T15:00:41.000Z	r170865@rguktrkv.ac.in	Socket knosndasdkalsd dsadsa	BH2 dsds	Srikanth



## QUALITIES

### Availability

The portal will be at any time with the exceptions of maintenance.

### Scalability

The Website is scalable that means we can add more features in future .

### Security

The users of this website are authorized. Any changes in the database are from authorized users.

### Usability

This portal is user-friendly such that a layman can also be capable of using the portal with ease.

### Compatability

The portal is compatible with any browser , any device and from any environment.



## Future Expansion

- Inventory for Each Departments.
- Interfaces for remaining departments.
- Administration Page
- Admin page to create logins for varies interfaces.



## OUTCOMES

- User can easily address their complaints without visiting particular departments.
- Departments can easily maintain complaints logs.
- Electric Department heads can easily Assign Duties for electricians .



**THANK YOU**