Electricity Billing System:

INTRODUCTION

Electricity Billing System is a Desktop-based application.

- This project aims at serving the department of electricity by computerizing the billing system.
- It mainly focuses on the calculation of units consumed during the specified time and the money to be charged by the
 electricity offices.
- This computerized system will make the overall billing system easy, accessible, comfortable, and effective for consumers.

The main aim of our project is to satisfy customer by saving their time by payment process, maintaining records, and allowing the customer to view his/her records and permitting them to update their details

Objective Of The Project

- To keep the information of consuming unit energy of current month.
- To keep the information of Customer.
- To keep the information of consuming unit energy of previous month.
- To calculate the units consumed every month regularly.
- To generate the bills adding penalty and rent.
- To save the time by implementing payment process online.

Technology Stack

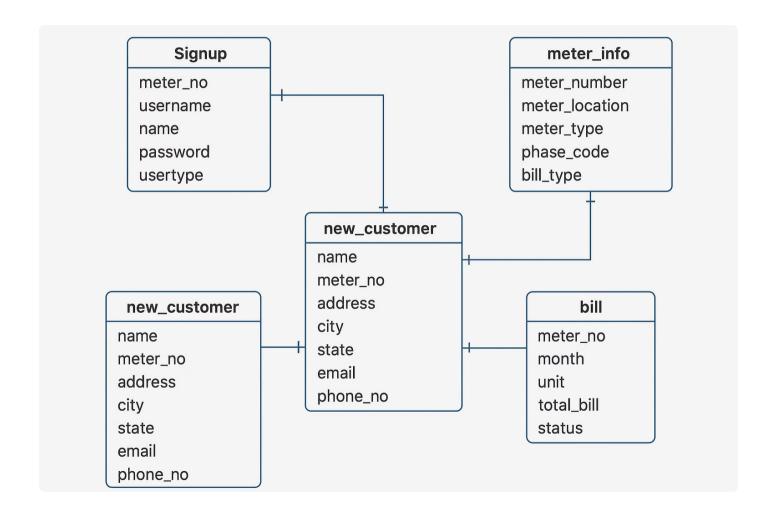
•• Frontend: Java Swing

• Backend: JDBC (Java Database Connectivity)

• Database: MySQL

•• IDE: IntelliJ / Eclipse

ER Diagram:



Sign Up



- Here New customers/Admin will signup to access their accounts.
- Customers User have to enter meter-no, username, name, password.
- Admin User have to enter username, name, password

Admin



Customer

Login



- Here Customer and Admin can login to their respective accounts.
- The dropdown menu allows to choose whether to login as an admin or as a customer.

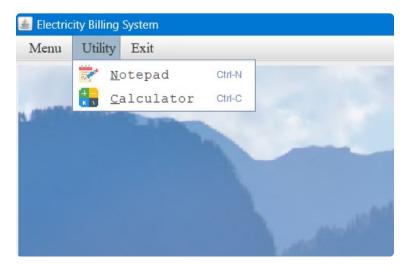


Admin's Home Screen:

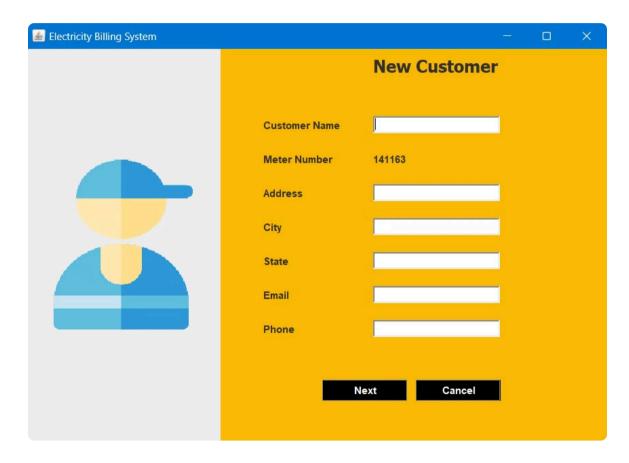
Admin



- Admin lands on this page after successful login
- This Screen Contains various fields like in menu section New Customer, Customer Details, Deposit Details, Calculate Bill.
- In Utility section we have Notepad, Calculator
- Exit is for Logout.



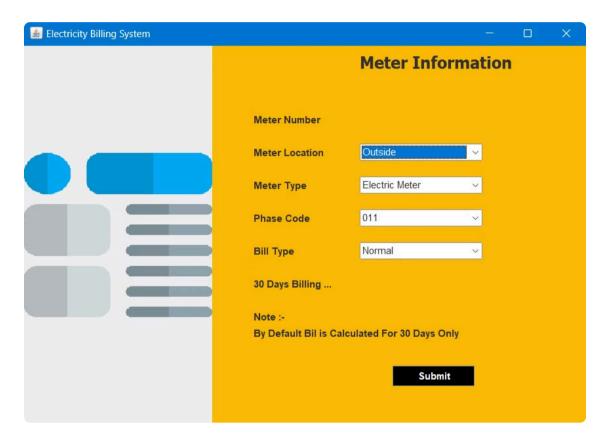
New Customer



- This program will allow the admin to enter the customer details and automatically generates unique meter number.
- If customer name, address, city, state, email and phone number is entered, insert the values into customer else print error



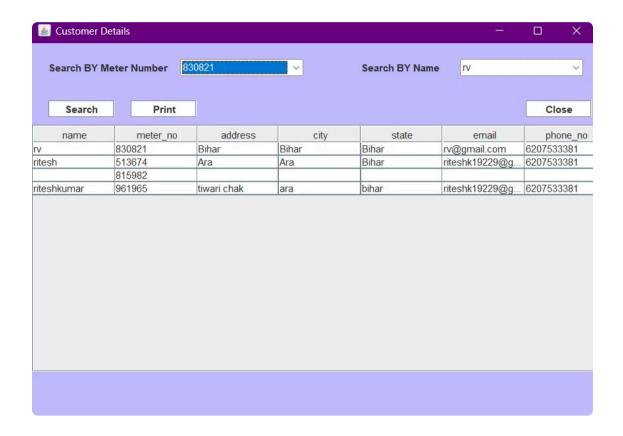
Meter Information



- Here Admin selects the location and type of meter installed at the customers end.
- Admin also selects the phase code and Bill type i.e. Residential or Commercial/Industrial



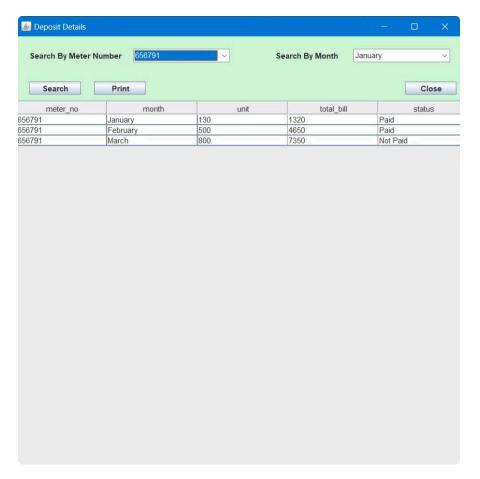
Customer Details



- This program will allow the admin to view customer details.
- If we need to print the details that has been viewed click onto print option



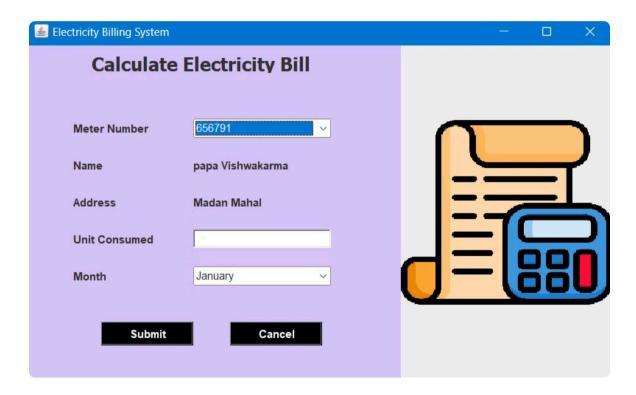
Deposit Details:-



- This program will allow the admin to view bill details. If we need to sort the details based on meter_no and month.
- If we need to search the particulars that has been viewed click onto search option.
- If we need to print the particulars that has been viewed click onto print option.



Calculate Bill



- This program will allow the admin to calculate total bill when units consumed are inserted where meter-no and month is selected.
- Submit the details of tax that has been entered by clicking onto submit button.
- If we need to cancel the details that has been entered click onto cancel option.



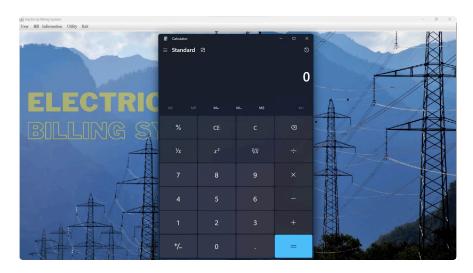
Notepad

When user clicks on notepad option under utilities section, its launches the notepad.



Calculator

When user clicks on calculator option under utilities section, its launches the calculator.



(This both feature is available to both Admins and Customers)

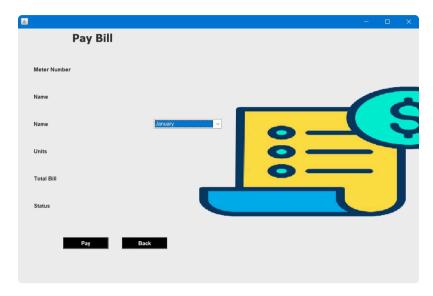
Customer



- Customer lands on this page after successful login
- This Screen Contains various fields like in user section Pay Bill, Bill Details
- In Bill section we have Generate Bill Slip.
- In Information section we have Update Information, View Information.
- In Utility section we have Notepad, Calculator
- Exit is for Logout.



Pay Bill

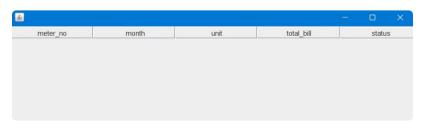


• Here customers pay their bills by selecting appropriate month.

Pay Bill

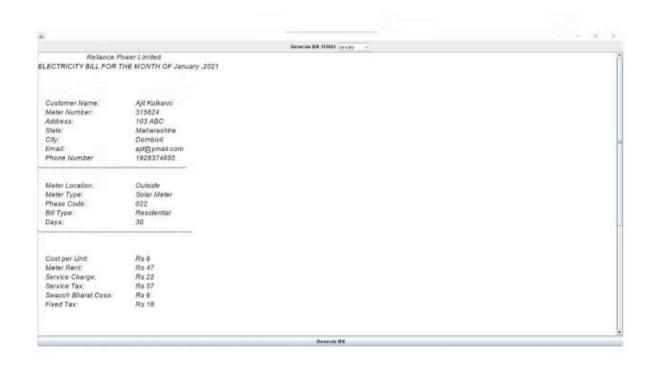
Bill Details

• Here every customer can check the status of their bills, whether they have paid the bills or not.



Bill Details

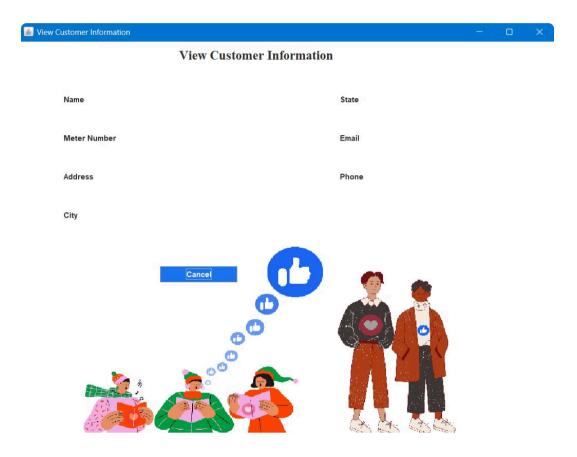
Generate Bill Slip.



Here customer can generate / see their bill in a proper breakdown of entire amount.



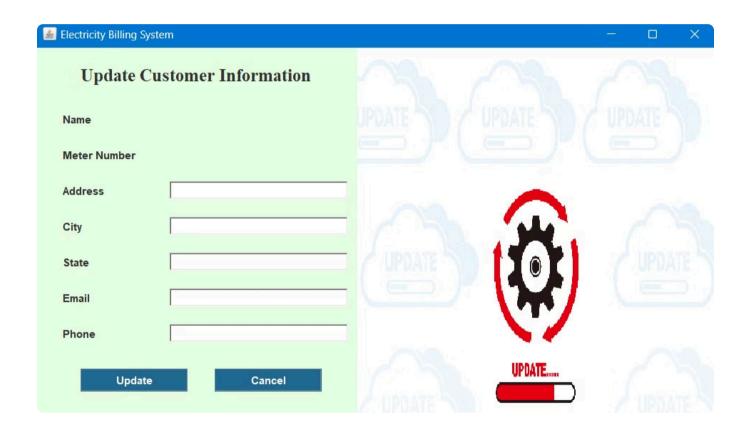
View Information



Here customer can see their entered information such as their name, meter number, address, city, state, email id and phone number.



Update Information



Here customer can update their entered information if any correction is needed such as their address, city, state, email id and phone number.



CONCLUSION

• It is a software which helps the user to work with the billing cycles,

paying bills, managing different DETAILS under which are working etc.

This software reduces the amount of manual data entry and gives

greater efficiency. The User Interface of it is very friendly and can be easily used by anyone.

It also decreases the amount of time taken to write details and other modules.