

# **JAVA PROJECT (CSE 310)**

## **ELECTRICITY BILLING SYSTEM**



**SUBMITTED BY:**  
JAKKAM PRAMOD KUMAR (12104992)  
POOJA CHOWDARY (12104630)  
V.M.S ADITYA AKHIL (12104657)

PROJECT DONE UNDER THE GUIDANCE OF  
DR. RANJITH KUMAR A CSE (310)  
Lovely professional university,  
Phagwara, Punjab.

## TABLE OF CONTENTS

<b>ABSTRACT .....</b>	<b>5</b>
<b>1.INTRODUCTION.....</b>	<b>5</b>
<b>2.OBJECTIVE.....</b>	<b>6-9</b>
<b>2.1. LOGIN PAGE</b>	
<b>2.2. MASTER FEATURE</b>	
<b>2.3. UTILITY FEATURE</b>	
<b>2.4. NEW/OLD CUSTOMER DETAILS</b>	
<b>2.5. CALCULATES THE BILL</b>	
<b>3.LIBRARIES USED.....</b>	<b>9</b>
<b>4.DIVISION OF THE PROJECT .....</b>	<b>10</b>
<b>5.FUTURE SCOPE.....</b>	<b>10</b>
<b>6.CONCLUSION .....</b>	<b>10</b>

## **ABSTRACT:**

This is a GUI made using Java Swing.

It lets User perform multiple operations like:-

1. User can Create his Personal login for security purposes.
2. User can Add customers and Calculate their Electricity Bill.
3. User can Pay Electricity Bills.
4. User can Generate Bill.

## **INTRODUCTION:**

The project is based on ELECTRICITY BILLING SYSTEM, it generates the bills of customers of a particular state within the range in india with their meter no, units consumed & details of that person.it can keep track of bills, readings, purchases and payments of the customer.

## **ABOUT THE PROJECT:**

This Java application was created using Intelli J. Additional library was added for the support of JDBC (Required to setup the connection between the Database and Java Application). It contains 9 different classes which works together to create a better user experience.

-> Splash Screen class

-> Login Screen class

-> Main System class

-> Add Customer class

->Pay Bill class

->Generate Bill class

->Show Details class

->Last Bill class

->Connection Setup class (JDBC - MySQL)

## **OBJECTIVE OF THE PROJECT:**

The primary objective of the Electricity Billing System is to keep track of invoices, customers, units, connections, and consumption. It keeps track of all bills, readings, purchases, and payments.

- We are in the process of completing this project in an innovative way.

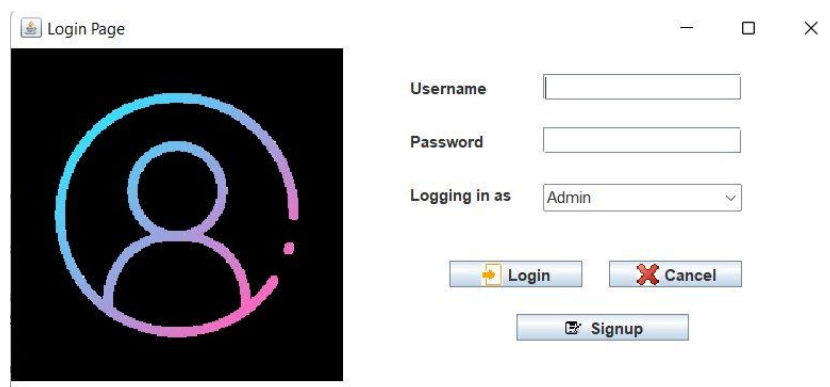
## **FEATURES/MODULES USED:**

We added few features to the system, which can give us unique identity, we added the following features such as

- Login/Signup module
- Master feature
- Utility feature
- New & old customer details
- Calculates the customer bill

### ➤ LOGIN/SIGN UP PAGE:

- Here is the login page of our electricity billing system, here customers can login into their accounts with their respective username and passwords, if any new user is try to login, he needs to signup with his details.
- If any user given wrong credentials he will not be able to use the system.
- There is an option of logging in as “Admin” or “Customer, it is for the Admins of the system, who can actually access all the functions in a system.



### ➤ MASTER FEATURE:

- In this Master Feature, Admin has the power to access multiple features such as “New Customer details, Old Customer details, Deposit details of the customer & Bill Generation details of the customer.



➤ **UTILITY FEATURE:**

- In this Utility Feature, there are few features which consists of Save/Add the data in Notepad, Scientific calculator feature which can calculate the customer billing.



➤ **NEW/OLD CUSTOMER DETAILS:**

- Here this is the interface for the New Customer to add him/her into the database. It contains the following information such as his name, city, address, email, phone number and the system will generate his/her meter no generally.

Customer Details						
Customer Name	Meter Number	Address	City	State	Email	Phone
pramod	248020	India	punjab	jalandhar	pramod@gmail.com	123456789
pramod	889446	India	punjab	jalandhar	pramod@gmail.com	123456789
pooja	447471	India	punjab	jalandhar	pooja@gmail.com	123456789
Akhil	446227	India	jalandhar	punjab	pramod@gmail.com	9272777334

➤ **CALCULATING THE BILL:**

- Here is the interface/portal to calculate the electricity bill of the customers. it is done by the admin itself for the customers. By providing the details of meter no, units consumed and for which month we want to calculate, thus Admin can calculate the Electricity bill for the customers.



Calculate Electricity Bill

Meter No

Name

Address

Units Cosumed

Month

➤ **LIBRARIES USED:**

- This Java application was created using IntelliJ J. Additional library was added for the support of JDBC (Required to setup the connection between the Database and Java Application). It contains 9 different classes which works together to create a better user experience.

➤ Splash Screen class

➤ ->Login Screen class

➤ ->Main System class

➤ ->Add Customer class

➤ ->Pay Bill class

➤ ->Generate Bill class

## **DIVISION OF THE PROJECT:**

<b><u>S.No</u></b>	<b><u>Name of the Student</u></b>	<b><u>Work Contribution in Project</u></b>
1.	JAKKAM PRAMOD	Responsible for billing page
2.	POOJA CHOWDARY	Responsible for Login and Register Page
3.	ADITYA AKHIL	Responsible for Home page

### ➤ **FUTURE SCOPE:**

- The Electroicity billing system is built to help customers to calculate and display bills and serve the customer in a faster and efficient manner

### ➤ **CONCLUSION:**

- We have successfully completed the project, and designed Electricity billing system. It is crucial for the efficient operation of modern households, Electricity Billing System is to keep track of invoices, customers, units, connections, and consumption.