19CSE204 OBJECT ORIENTED PROGRAMMING

CASE STUDY REPORT

TITLE:

ELECTRIC BILL MANAGEMENT SYSTEM

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# Problem Statement

This project is related to bill payment system. The system provides details of electricity consumed by the customers. The admin of the electricity board generated bill every month based on the electricity consumed by customers in terms of number of UNITS. The bill is generated by calculating the units of electricity as the difference from current total number of units to the previous month’s total units. The resultant units are multiplied by the cost of each unit that is fixed by the board. The admin of the electricity board has details of customers in its operating range (like customer number, address, previous reading, current reading, charge per unit, etc.). The customer can login to the board’s site with his number and be able to view all the past transaction details, current amount to be paid, number of units utilized, arrears, last date to pay the bill, etc. The admin can verify the bill status of customers. If the bill is not paid over a specified period an alert will be sent to customer beyond which the connection will be discontinued. The status of customer’s bill can be verified by the admin and be updated.

# Actor

* USER
* ADMIN

# TASK LIST

* User
* Admin
* Register
* Login
* Readings
* Current tariff
* Announcement
* Bill
* Payment
* Customer care
* Feedback

# From Conceptual Class:

## 1.Abstract class:

Nil

## 2.Interface:

Payment method

## 3.Inheritance Relationship:

Register Login

Bill Payment

## 4.Static Variable:

Bill

+Billno : int

## 5.Aggregation:

Bill Reading

## 6.Composition:

User Customer Care

Bill Payment

Bill Current Tariff

## 7.Dependancies:

User Admin