DESIGN SMART ELECTRICITY PRICE DETECTOR USING DATA MINING

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Abstract: The Electricity Billing System is a software-based application developed in PHP programming language. This automation system will make the overall billing system easy, accessible, comfortable and effective for consumers. Electricity is the prime factor that one requires to carry out the day to day activities of the offices or houses. It will help the officials at the electricity bill payment offices to manage in a well-organized manner. Sometimes the people will not be having time to go to pay the electricity bills. With the increase in the technology the way of paying the electricity bills can be improved or changed completely. This system can take all the data that is necessary to prepare the electricity bill and produce it. This system helps in maintaining the bills and the payments. Admin and customers all have a different interface and different privileges according to their need.

Keywords: Electricity Billing System, privileges, bill payment, consumers, prime factor

I. INTRODUCTION:
This system developed to computerize the billing system of KSEB where all dealing was done manually earlier. At the present a day’s automation is scattering with great speed. Many organizations are being automation and are surely enjoying the benefits of computerization. Earlier one person was gone to collect the meter reading, then another one check the unit charge and another person compute the total charge. These details are all stored in special account. Though all the most consequence, tedious a care needed job is the bill result. Any one of mistakes may cause severe consequence. Automation helps to overcome all these problems, by integrate the system that is the above said jobs can be done by a single person. That is one computer user helps to create accurate bills, with great speed. This includes the consumer details report generation. This software package can be operational in menu driven way which will be helpful to the end user.

This system is made to keep the records about the bills of the customers. The admin can manage all the accounts and the registered users like employees and customers can only manage their own accounts. This system helps in maintaining the bills and the payments.

II. METHODOLOGY
EXISTING SYSTEM
The conventional system of electricity billing is not so successful; one staff has to visit each customer’s domicile to note the meter readings and collect the data. Then, another staff has to compute the consumed units and calculate the money to be paid. Again, the bills prepared are to be delivered to customers. Finally, human being customer has to go to electricity office to pay their dues. Hence, the conventional electricity billing system is uneconomical, requires many staffs to do simple jobs and is a lengthy process overall. In order to solve this lengthy process of billing, a web based computerized system is essential. Existing system is completely manual. There may be a lot of chance of clerical and procedural errors. Existing system has several disadvantages such as,

1. Redundancy in stored data
2. Lack of security
3. Data is inconsistent
4. More time required
5. Waste storage space
6. Manpower required
7. Errors may occur
8. Regular watching and supervision is necessary

PROPOSED SYSTEM
With the new system, there is reduction in the number of staffs to be employed by the company. The working speed and performance of the software is faster with high performance which saves time. Furthermore, there is very little chance of miscalculation and being corrupted by the staffs. It is software which helps the user to work with the billing cycles, paying bills, managing different departments under which employees are working etc.
III. DATA FLOW DIAGRAM

IV. MODULE DESCRIPTION

Admin
This module can only have one account and this account has all the privileges which a user account might not have. First of all, admin account is created and then if the admin verifies a registering user then his account will be created otherwise not.

Admin Dashboard
This module shows the following items
- Number of Bills | Generated
- Number of Bills | Unprocessed
- Number of Complaints | Unprocessed

Users
This module list out all the users’ details.

Bills
This module contain two tabs, Generated History list out all the generated bill details for all the users and another one is Generate New will prepare a new bill for the users by entering the consumed units.

User
The user can be anyone either a customer or an employee. If the user is an employee then he can make changes to the data like adding units in the bill, used by a customer. If the user is a customer then he can only see the details of his account, not of any other account. The customer can see the monthly usage of electricity and can pay the bill but cannot make any changes to the data.
V. OUTPUT SCREEN

Screen shot: 1 - Login

Admin Dashboard
Bill Due

Transactions
CONCLUSION
The objective of this project was to build a program for generate and maintain the electricity bill for all the available customers. The system developed is able to meet all the basic requirements. It will provide the facility to the user so that they can keep tracks of all the bills, payments, complaints. This system will be also benefited by the proposed system, as it will automate the whole electricity management, which will reduce the workload. Also the integration of the system with Electricity Management project has been kept in mind throughout the development phase.

Books Reference

Paper Reference
Inventory Management System - Neeraj Kumar - Information Technology, Dronacharya College of Engineering, Gurgaon, Haryana.

Website Reference
https://www.w3schools.com/php
https://www.phppoint.com/php-tutorial
https://www.tutorialspoint.com/php