



# **Software Design Proposal**

## **Project: Electricity Management System**

### **Creators:**

**Hassan Ali (21L-5329) DB Lab (4-E1)**

**Abdur Rehman Amin (21L-5235) DB Lab (4-E1)**

**Subayyal Saeed (21L-7719) DB Lab (4-E1)**

### **Executive Summary**

Our project name encompasses “**Electricity Management System**” which will be designed for Web Usage. The project focuses on solving the *Electricity Record* and *Billing Problem* as demand for electricity has increased along with corruption instances by Line Men and Electricity subscribers. Therefore, our project focuses on solving the corruption problem by *Retrieving* Bill Readings and further *Cross-Checking* them from previous records for suspicion.

We would also allow consumers to *Apply* for Electricity Meters and *Request the* installation of electricity online without involving bribes. The system will also focus on assigning requests to Line Man and prompt users to pertain feedback regarding the installation of services by such employees to avoid bribes. Moreover, an online transaction system will work based on each user's profile for bill payment which would make the billing process tremendously easier and effective.

## ***Design Information***

It will be a Graphical User Interface that will be accessed through the website and store information about Users and Admin Records. The app will also entail information such as the accuracy of bills and impose good employee standards by matching feedback. However, it will also include bill payments and OTP processing.

*Tools: For Front-End: HTML and CSS (maybe Bootstrap)*  
*Back-End: MYSQL, PHP.*

## ***Features of the Electricity Management System***

*There are 5 sides: User, Transaction and Administrator, Complaints, and Bill*

### ***Main Use Cases***

#### ***User Features***

- Register Account
- Request Meter Installation
- Retrieve Bill
- Provide Feedback

#### ***Admin Features***

- Cross-Check History for Bill's Authenticity Automatically
- Register Accounts
- Add/ Remove Employee Information (Depends on Heirarchy)
- Suspend User Connections or Accounts
- Send Bill Upload Request
- See Account Information

#### ***Transaction***

- Bill Payment
- O-T-P verification by Email
- Update Accounts Records



## For Reference

