

MINI PROJECT USER REQUIREMENT SPECIFICATION

ELECTRICITY COMPANY MANAGEMENT SYSTEM

Submitted by:

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1.Introduction

Purpose of the project-

The purpose of the Electricity Bill Management System is to provide a user-friendly platform for managing and tracking electricity consumption, billing, and payment processes efficiently. This system aims to streamline the billing process enhance user experience by providing seamless access to the users to their monthly consumption.

Scope of the project-

The scope of the project encompasses the development of a software application that allows users to view their electricity consumption history, receive monthly bills, make payments, and access analytical reports. The system will also have an administrative interface for managing user accounts, tariff rates, and generating reports.

2.Project Description

Project overview –

The Electricity Bill Management System is designed to simplify the interaction between utility providers and consumers. It offers a user-friendly interface for consumers to manage their electricity accounts, view consumption trends, and make payments. The system will also provide

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administrators with tools to monitor and manage user accounts, tariff rates, and generate reports for analysis.

Major project functionalities-

- **View Consumption History:** Users can view their historical electricity consumption data, presented in an easy-to-understand format (e.g., graphs, tables).
- **Receive Monthly Bills:** Users will receive monthly bills with detailed information about their consumption, charges, and due dates.
- **Make Payments:** Users can settle their monthly dues.
- **Send notifications:** Send notifications to the users about upcoming due dates, successful payment, etc.
- **Admin Dashboard:** An administrative interface will be provided to manage user accounts, tariff rates, and generate reports.

3. System Features and Function Requirements

System Feature 1: View Consumption History

Functional Requirement:

- Entities: Customer, Account, Bills
- Input Requirements:
 - Account id
 - Meter number

3.2 System Feature 2: Receive Monthly Bills

Functional Requirement:

- Entities: Customer, Account, Bills
- Input Requirements:

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- Account id
- Meter number

3.3 System Feature 4: Settle bills

Functional Requirement:

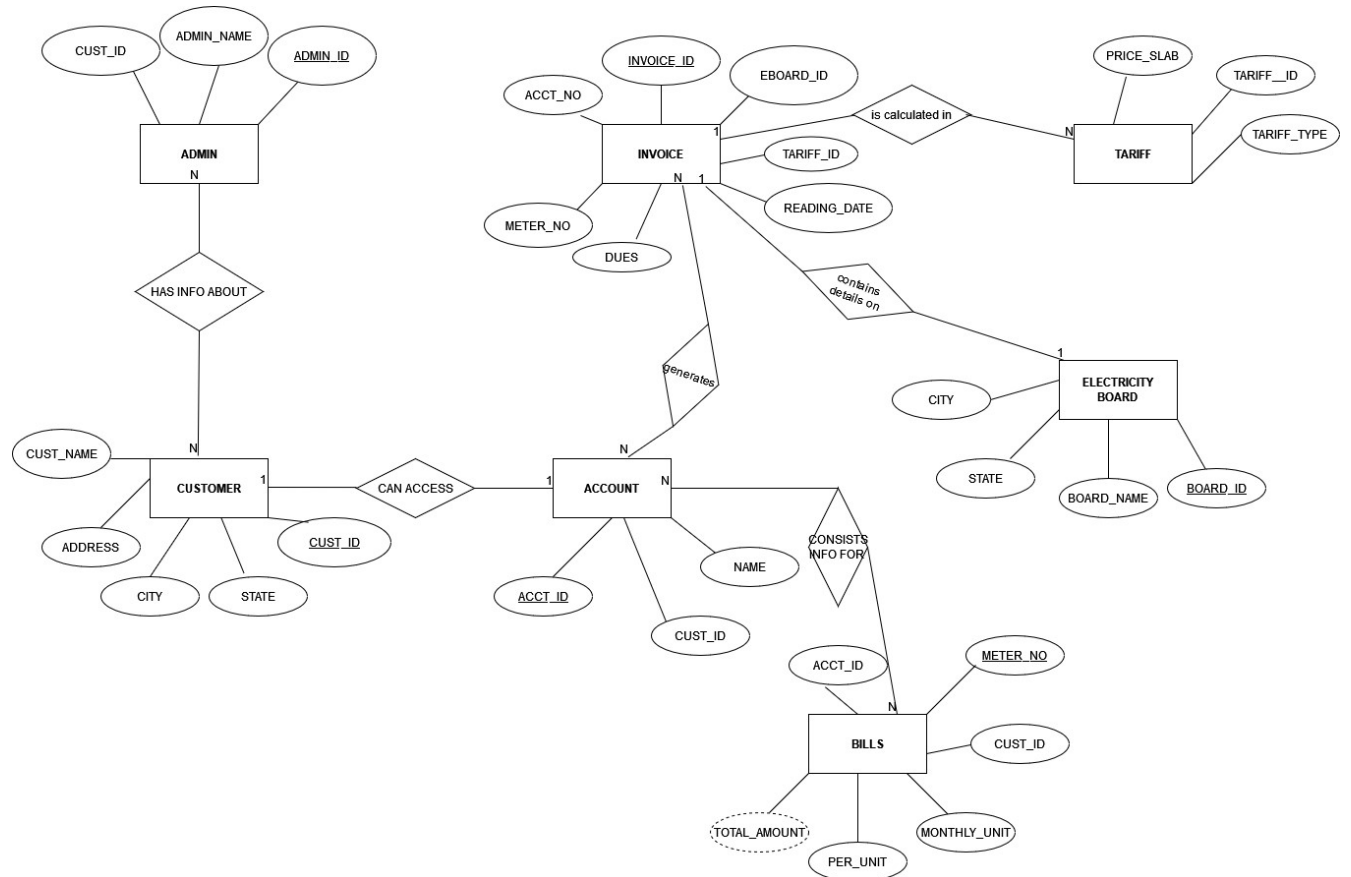
- Entities: Account, Invoice
- Input Requirements:
 - Account id
 - Invoice id

3.4 System Feature 4: Admin Dashboard

Functional Requirement:

- Entities: Admin, Invoice, Tariff
- Input Requirements:
 - Admin id

ER Diagram



Relational Schema

