

# Database Project Synopsis

**Batch No: C1**

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**Project Title :**

**"Centralized Electronics Store Management System:  
Multi-Admin Billing and Audit Platform"**

## **Abstract**

The Electronics Store Management System is a centralized, multi-admin platform designed to optimize billing, debt management, and auditing processes for electronics stores operating under a single head office. Developed using Flask for backend functionality, Jinja2 templating, HTML, CSS, Bootstrap for frontend design, and MySQL for database management, the system provides advanced tools for managing customer transactions, stock levels, and employee details. Admins act as superusers with privileges to handle cash and debt-based transactions, modify product prices, manage stock quantities, and monitor business statistics. The platform ensures operational efficiency while maintaining transparency through a comprehensive audit trail of all transactions.

A key feature of the system is its robust debt clearance mechanism. Debt transactions are subject to interest calculations (36% per annum), and admins can oversee the clearance process with detailed confirmations. Additionally, the system incorporates automated debt clearance alerts for customers based on predefined time intervals. These alerts—sent via email—serve as proactive reminders for upcoming or overdue payments, reducing defaults and improving repayment rates. By leveraging automation, the platform enhances customer experience while ensuring consistent communication about financial obligations.

The application also offers daywise, monthwise, and yearwise business analytics for admins to track performance metrics such as total cash collected, debt given, and clearance amounts. Furthermore, stock management features prevent overselling by restricting transactions when inventory levels reach zero. With its comprehensive functionalities and centralized control, the Electronics Store Management System empowers businesses to streamline operations while fostering accountability and customer satisfaction.

## **Software requirements :**

**Operating System** : Windows XP or higher

**Programming Language** : Python (Flask framework)

**Drivers** : MySQL Connector for Python

**Tools** : MySQL Database, Jinja2 templating engine, HTML, CSS, Bootstrap

## **Hardware Requirements :**

**Processor** : Intel Core i3 or higher

**Memory** : Minimum 4 GB RAM

**Any other devices** : a stable Internet connection

## **Guided by :**

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**Designation** : Professor, COE

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**Designation** : Assistant Professor