APPLICATION: STORE MANAGER

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INTRODUCTION

The development of this project will be based on the store management application which allows store owner managers and employees to manage their businesses more efficiently. This app provides essential tools for inventory management, order processing, and sales and customer tracking. The success of the application depends on the design and modeling of databases, which is why a focus will be placed on its design.

GOAL

Designing a solid database, we seek to facilitate inventory management, order processing, sales tracking and data analysis. Our goal is to provide a comprehensive solution for owners, managers and employees, improving operational efficiency and informed decision making in a store context.

METHODOLOGY

1. **Identification of Interested Parties:**
Identify key stakeholders in the Store Management Application project.
1. **User Lists and Project Scope:**
Identify what functionalities and features must be present in the application to meet the needs of users.
1. **Emphasis on Database Design:**
Attributes and relationships are defined
The creation of the entity-relationship diagram (DER) is carried out, which allows us to visualize the structure of the database
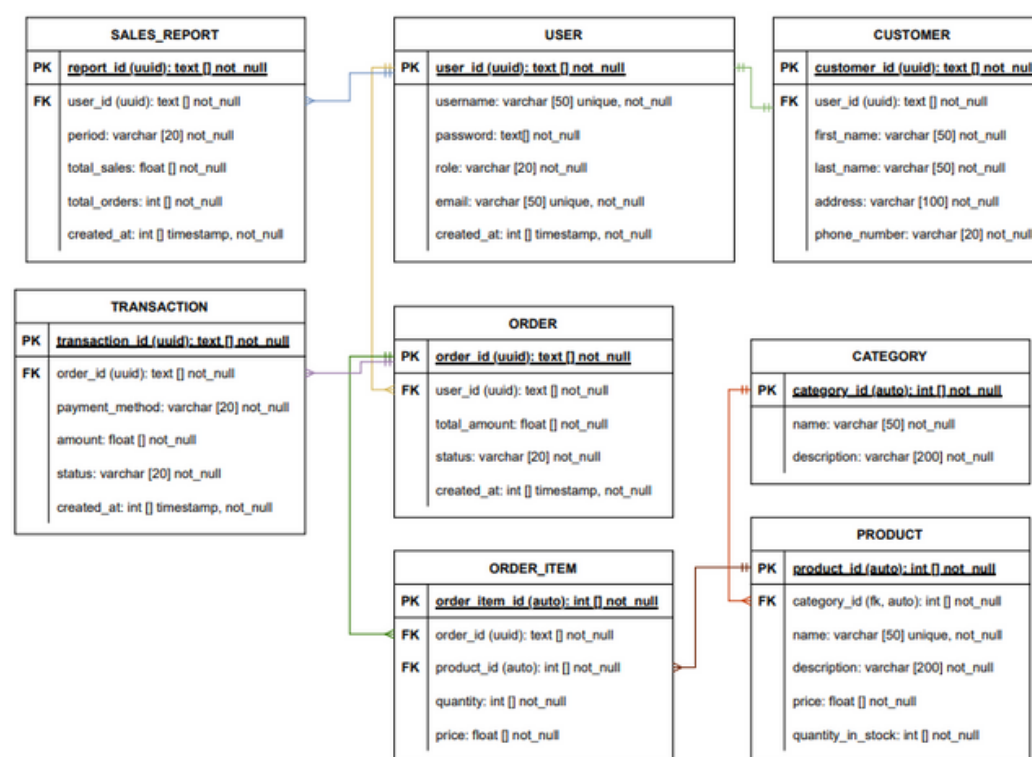
ROLES

- store owner
- Store manager
- Employee
- Customer (Although they are not direct users, their information and purchasing behavior are recorded for analysis and monitoring)

PROJECT SCOPE

- Inventory management
- Sales tracking
- Report generation
- Orders management
- Transaction history by customer

E-R DIAGRAM

From the definition of the entities, the following Entity-Relationship Diagram (ERD) was developed: users can place several orders, each order contains multiple items, products belong to categories, each customer is associated with a user, the Sales reports are generated by users and transactions are linked to orders. This diagram visualizes the structure of the database and how the entities relate to each other

CONCLUSION

The database design provides a solid foundation for efficient management of a store, allowing owners, managers and employees to make informed decisions and deliver a seamless experience to customers.