Subscription Box Service Database Project Report

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1. Project Selection

The selected mini world for this project is a Subscription Box Service. This system manages customers, subscriptions, boxes, and payments. The goal is to design a database that tracks customer subscriptions, subscription plans, monthly boxes, and payment transactions.

2. System Design Requirements and Process Documentation

System requirements were gathered through research on real-world subscription services such as HelloFresh and Birchbox. The system must store customer information, subscription plans, box details, and payment records. Entities and relationships were identified based on these requirements.

3. Entity-Relationship Diagrams

A Chen-style ER diagram was drawn to represent entities, attributes, and relationships. A UML-style ER diagram was generated using MySQL Workbench to visually represent the database schema.

4. Database Creation and SQL Scripts

The database was implemented in MySQL Workbench using the UML diagram. Tables were created for Customer, Subscription, Box, and Payment with primary and foreign keys. SQL scripts were generated to create and manage the database schema.

5. GitHub Repository and Submission

All project files including ER diagrams, SQL scripts, MySQL Workbench model, and this report were uploaded to a public GitHub repository. The repository is organized into folders for diagrams, SQL scripts, Workbench files, and the report.

6. Conclusion

This project demonstrates the design and implementation of a relational database system for a Subscription Box Service. The database meets the system requirements and provides a structured way to manage subscriptions and payments.