Intermediate Report: Mall Management System

Introduction:

Our group, consisting of Kifayat Khan, Murtaza Khalid, and Maham Batool, has been working on a Mall Management System project. The purpose of this project is to provide a comprehensive software solution for mall management, covering a wide range of functionalities including accounts, maintenance, inventory, and employee management. We have completed a significant portion of the project and would like to present our current progress in this intermediate report.

Menu and Functionalities:

Our system has a menu with over 2200 lines of code, which includes the following functionalities:

Accounts management: This class provides features for managing mall finances, such as tracking sales, expenses, and generating reports.

Detail management: This class manages the details of all the shops and their products within the mall.

Maintenance system: This class helps to keep track of the maintenance tasks required for various mall assets, such as cleaning, repairs, and upgrades.

Employee management: This class manages the details of all the employees working within the mall, including their personal information, employment history, and salary management.

Implementation:

We have implemented various OOP concepts in our project, including polymorphism, inheritance, composition, and file handling. Here are some examples:

Polymorphism: We have implemented polymorphism in the employee class by creating different types of employees, such as full-time, part-time, and contract employees, each with their own specific attributes and methods.

Inheritance: We have implemented inheritance in the maintenance system class by creating different types of maintenance tasks, such as cleaning, repairs, and upgrades, each inheriting common attributes and methods from a base maintenance task class.

Composition: We have implemented composition in the accounts class by creating a transaction class, which is composed of attributes such as date, type, and amount, and is used to represent all financial transactions in the mall.

Users:

Our mall management system is designed for use by mall managers and administrators. It provides a user-friendly interface with easy-to-use features and functionalities, allowing them to manage various aspects of the mall effectively.

Conclusion:

In summary, we have made significant progress in our Mall Management System project, with a menu of over 2200 lines of code and the implementation of various OOP concepts. Our system is designed to provide a comprehensive solution for mall management, covering a wide range of functionalities, and is suitable for use by mall managers and administrators. We look forward to completing this project and presenting the final product.