Movie Store Inventory System Design Document

Assignment 4 – CSS 343

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Overview

This system is designed for a movie rental store where inventory and movies are kept track of. In the main of this system, I use a parser to evaluate the 3 files passed in as arguments. There are 4 main categories of classes in this system. The first category is the movies. There are three types of movies that are extended from the parent movie class. The second category is the shop category. The shop is the main class that has a list of the customers and an inventory. The third category is the Hash classes. This includes a node class to be used for open hashing and data storage, along with a Hash Table class for a general hash table implementation. The final category is a parser class that will parse the input passed into the main.

Movie Class Diagram

Diagram

Description automatically generated

Shop Diagram

Diagram

Description automatically generated

Hash Diagram

A picture containing table

Description automatically generated

Parser Diagram

A picture containing graphical user interface

Description automatically generated

Class Descriptions

**Movie:**

**Text

Description automatically generated**

**Classic:**

**Text

Description automatically generated**

**Comedy:**

**Text

Description automatically generated**

**Drama:**

**Text

Description automatically generated**

**Inventory:**

**Text

Description automatically generated**

**Customer:**

**Text

Description automatically generated**

**Shop:**

**Text

Description automatically generated**

**Parser:**

**Text

Description automatically generated**

**Node:**

**Text

Description automatically generated**

**Hash Table:**

**Text

Description automatically generated**