Assignment4 19

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# Overview

We have 4 main classes, RentalStore being the main class which contains a Vector of class customers. Customers contains variables for id and name. RentalStore also contains a list of Movies, movies has 3 classes that inherit from it; Comedy, Classical, and Drama.

# Problem Description

Creating a record system for a movie rental store, including a database of customers, each with their own history. And a database of movies, divided by movie type; classic, comedy, and drama being the current selection. The system must be designed in a way to be extensible for any future types of movie genres that the business may use may be easily created. The system must also be able to handle a sorting system that is unique to each type of movie genre the system handles.

# Assumptions and Design Considerations

We may assume that all data will be formatted in the text files, so reading in files will not have to cover special cases of missing commas or spaces. We have also designed the system to be extensible when it comes to types of movies, each genre of movie being a derived class of movies.

# High Level Algorithms