Design document

In my implementation of the DVD Library, I followed the design pattern of the Class Roster.

Graphical user interface, text, application

Description automatically generatedFiles are organized based on the MVC pattern:

App has the main function, responsible for running the Application.

The Controller is the conductor of the Application, it has a main run() method, which is used in App.

The Modell part of my Application is the DAO and DTO.

The DAO has an abstract class the DVDLibraryDao.java, which is extended by DVDLibraryDaoFileImpl.java.

Table

Description automatically generated with medium confidenceI have a costume Exception called DVDLibraryException, which is responsible for maintaining encapsulation even when something goes wrong. However, I did not focus on caching exceptions, which might occur if User does not cooperate.

The DTO consists of the DVD Class.

I also have a View consisting of the DVDLibraryView.java, which holds all methods responsible for the Console UI. Also, it has a helper class UserIOConsoleImpl.java, which implements the UserIO.java Interface. This class has methods, which make it easy to print to the Console, and get information from User.

This is the Main Menu:

Text

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