Assessment: DVD Library

Re-submit Assignment

Due May 14, 2018 by 9am **Points** 100 **Submitting** a website url
Available after May 10, 2018 at 5pm

Overview

The purpose of this assessment is to demonstrate your proficiency in basic Java syntax involving console input and output, basic file input and output, basic string/text manipulation, flow of control statements, expressions, and basic data structures such as arrays, Lists, and Maps. Additionally, you will demonstrate your proficiency in implementing the MVC design pattern and dependency injection.

Requirements

In this assessment, you will create a program that stores information about a DVD collection. The program must do the following:

1. Allow the user to add a DVD to the collection
2. Allow the user to remove a DVD from the collection
3. Allow the user to edit the information for an existing DVD in the collection
4. Allow the user to list the DVDs in the collection

5. Allow the user to display the information for a particular DVD
6. Allow the user to search for a DVD by title
7. Load the DVD library from a file
8. Save the DVD library back to the file when the program completes
9. Allow the user to add, edit, or delete many DVDs in one session

Additionally, the program must follow the MVC design pattern and use dependency injection as shown in the course material.

You should follow the process outlined in the **Agile Approach Checklist for Console Applications** document.

Your DVD data transfer object should have the following fields:

1. Title
2. Release date
3. MPAA rating
4. Director's name
5. Studio
6. User rating or note (allows the user to enter additional information, e.g., "Good family movie")

Submitting Your Assessment

Your instructor will provide instructions on how to submit your work to a GitHub classroom.

After submitting your work, schedule a time with a staff member to review your code. If you are attending the Guild in person, your code will be reviewed during the weekly code review.

Be prepared to answer questions about your code and thought processes when you complete the code review.

DVD Library Rubric v2.4

Criteria	Ratings			Pts
Specifications Apprentice applies the specifications to the application, including the use of custom classes, using multiple objects effectively, and dependency injection.	**15.0 pts** **Meets Expectations**	**8.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	15.0 pts
MVC The application uses the MVC pattern appropriately.	**10.0 pts** **Meets Expectations**	**5.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	10.0 pts
I/O Operations The application can perform I/O operations to a file to store and retrieve data.	**10.0 pts** **Meets Expectations**	**5.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	10.0 pts
List/Map The application uses a List or Map to hold data in memory.	**10.0 pts** **Meets Expectations**	**5.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	10.0 pts

Criteria	Ratings			Pts
Java Syntax The application uses proper Java syntax and constructs.	**10.0 pts** **Meets Expectations**	**5.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	10.0 pts
Dependency Injection Apprentice can explain the relationship between dependency injection and loosely-coupled code.	**5.0 pts** **Meets Expectations**	**3.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	5.0 pts
OOP Concepts Apprentice can explain object-oriented programming, including classes and objects.	**5.0 pts** **Meets Expectations**	**3.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	5.0 pts
Interfaces Apprentice can explain what an interface is using examples from the code.	**5.0 pts** **Meets Expectations**	**3.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	5.0 pts
Inheritance Apprentice can explain inheritance using examples from the code.	**5.0 pts** **Meets Expectations**	**3.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	5.0 pts

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Composition Apprentice can describe the use of composition, using examples from the code.	**5.0 pts** **Meets Expectations**	**3.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	5.0 pts
Agile Apprentice can explain the use of Agile as an approach to software development.	**5.0 pts** **Meets Expectations**	**3.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	5.0 pts
Data Marshaling Apprentice can explain data marshaling and unmarshaling.	**5.0 pts** **Meets Expectations**	**3.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	5.0 pts
Code Style Code is written with appropriate indents, naming conventions, and comments so that other developers can read the code easily.	**10.0 pts** **Meets Expectations**	**6.0 pts** **Needs Improvement**	**0.0 pts** **Not Submitted**	10.0 pts
				Total Points: 100.0