Netflix catalogue system

Console application with the following items:

View

Prints out the various Genres and their Titles

Genre

Contains list of Titles

Implement custom iterator to iterate over those Titles

Overload plus (+) operator to take in two Genres and return the aggregated Genre

Overload plus (+) operator to take in a Genre and a Title to return the aggregated Genre

Title

Name field

Rating field

Offer two overloaded constructors: one that takes in all the fields and sets them, another that takes in no fields and sets the internal fields to null.

TV Show (Inherits from Title)

Contains list of Episodes

Overrides parent's Rating to return an average rating of Episode ratings

Overrides ToString() method to return a string of the name of the show and number of episodes

Episode

Rating field

Movie (Inherits from Title)

Duration field

Overrides ToString() method to return a string of the name and duration of the movie

Create the genres: All, Romance, Action, Comedy. They need to share some titles (such as Romantic Comedies) by reference, not by duplicating the title itself.

Utilize the null operators we covered in class.

Utilize appropriate access modifiers.

When you are finished, write a UML diagram for your application.