

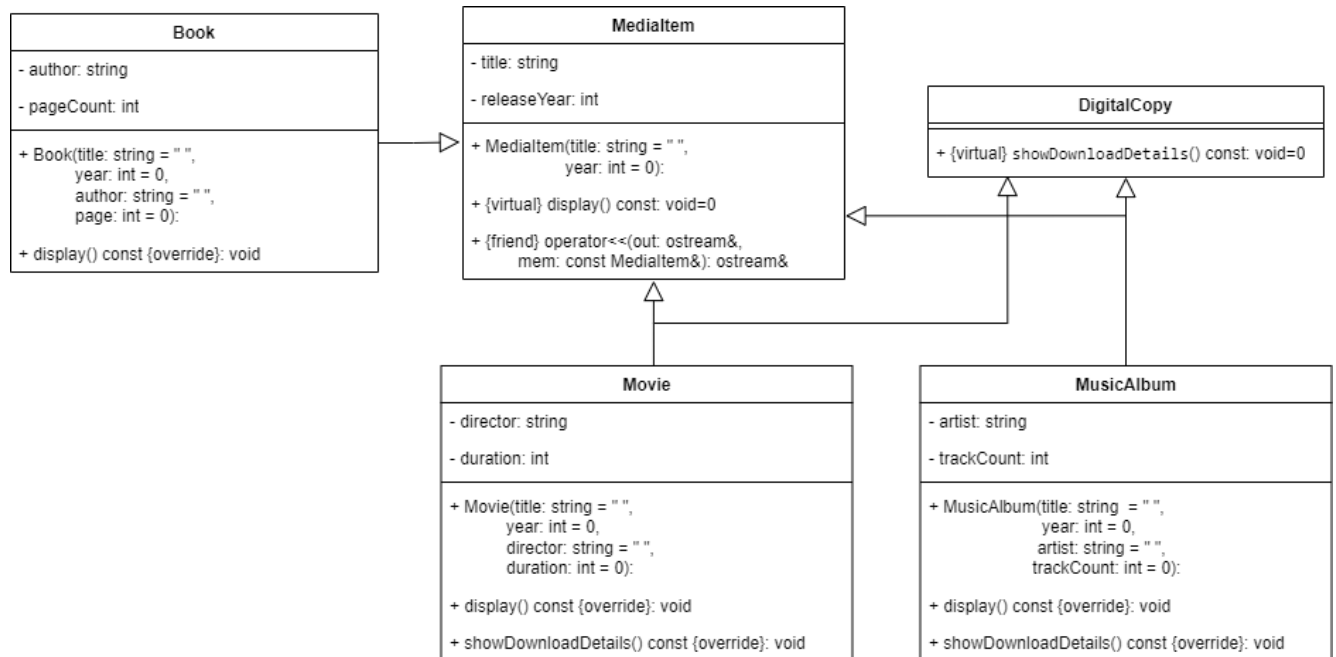
# Week 5- Assignment (2 marks)

**Note: All programs must use the appropriate C++ features.**

**Objective:** The goal of this assignment is to apply object-oriented design to develop a simple simulation of a media library system. C++ features include class inheritance, multiple inheritance, polymorphism, virtual member functions, and abstract base class.

## Description:

In this assignment, you will implement five C++ classes, as defined by the UML class diagram.



The input and output should be like below:

## Input:

Must use the given `week5.cpp` to test your implementation; **don't change anything in the main function.**

## Output:

Task 1: Book: title: 1984releaseYear: 1949, Pages: 328  
Task 2: Movie: title: InceptionreleaseYear: 2010, Duration: 148 min  
Task 3: Download available at [URL]  
Task 4: Music Album: title: ThrillerreleaseYear: 1982, Tracks: 9  
Task 5: Music album download details: [URL]

**Submit:**

1, **all C++ source code:** \*.cpp and \*.hpp if your code is organized into separate files.

Organizing the source code into separate files is not mandatory.

You can consolidate all code into a single cpp file.

2, **week5.txt:** a txt file contains all the source code.

3, **output.jpg**, or output.png, or output.bmp: a screenshot of the output by your program

**Please refer to the submission page for the Marking Rubric.**