

## Unit 6 Lab Day 11: Abby Lee Miller Recital Manager

Abby Lee, of “Dance Moms” fame, has commissioned the HW AP CS A class to create a program that she can sell to dance studio owners.

This software will simulate a dance recital performance. The dance studio owners need to be able to create *Recital Component* objects of various types. After interviewing Abby, we have learned that each *Recital Component* fits into one of two major categories and a few minor categories

- Dance
- *NonDance*
  - Monologue
  - Musical Interlude

Each Dance has the attributes:

- Length of performance
- Name
- Choreographer
- Dancers

Each Monologue has the attributes::

- Length of performance
- Speaker
- Topic

Each Musical Interlude has the attributes::

- Length of piece
- Genre
- Title

Create the classes that the client Recital Manager will use to simulate the performance of a recital. The client will need to:

- Declare a collection of *Recital Components*.
- Instantiate the individual components: Dance, Monologue and Musical Interlude
- Traverse this list and ‘perform’ each piece.

Create the UML diagram and create the classes, including the client in BlueJ. You need no code today, but the UML diagram should include the fields and method signatures as illustrated below:

