**Milestones**

**By:** Hunter Black

\*Note: The first set of Milestones and information following it are in reference to the revisions done to the project 4 milestones that I have completed in project 5 in order to gain back as much credit missed as possible

**Project 4 (revised):**

1. Create appropriate classes, complete with data fields and methods, to handle application data on movies, series, and their makers (15pts)
   1. Completed
2. Add a class, complete with data fields and methods, to the model to allow the model to correctly interact with the controller and the views (10pts)
   1. Completed
3. Create appropriate classes, complete with data fields and methods, for the views described below (25pts)
   1. Completed, with variations on EditView and AddView
4. Create an appropriate class, complete with data fields and methods, for the controller (25pts)
   1. Completed

* Develop and use a proper design (15pts)
* Use proper documentation and formatting (10pts)

*Handling whether or not buttons can be pushed:*

Rather than having some of the buttons which should not be able to be pushed until a certain criteria is met, I allow most buttons to be pushed at any point after data is uploaded to the model, but I put some handling statements inside the listeners that use those buttons to check for criteria that is very similar to those described for the button itself.

An example of this is found for the Display menu buttons, which should not be able to be pushed unless a MediaMaker is selected. Instead of that, I allow the button to be pushed, but if the criteria isn’t met (such as a MediaMaker not being selected) a JOptionPane will pop up to warn the user about problem and suggest trying again.

*Pie Chart fixed and working:*

In my original Project 4, our Pie Chart was not working at all. I revised the code, implementing an external library from JFreeCharts to make the Pie Chart work as requested in Project 4.

*Edit View*

In my original Project 4, our EditView was not fully functional, not changing certain fields. I revised the code and now the EditView works as requested in Project 4. For MediaMakers, instead of being able to edit associated media with that MediaMaker in the MediaMaker EditView, the user has the option to delete selected media from that MediaMaker. To edit media inside a MediaMaker, you must edit the media object itself.

Instead of the user being able to open multiple Edit Views as requested, I only allow one to be open at a time, warning the user through a JOptionPane if more than one object is selected at once to edit.

Additionally, there is currently an interesting error in which if you choose to edit a single Actor object, it will edit all Actor objects at once. This only occurs for Actor objects, but I am unsure why because the code for editing Actors/Directors/Producers is almost identical in everything but variable names and data types. If you could find why this is happening, I would be very interested in knowing.

*Add View*

The AddView now works as required, with the exception of not being able to add Movie/Episode objects from a MediaMaker AddView.

**Project 5:**

1. Create appropriate classes, variables, and/or methods to deal with the concept of degrees of separation (15pts)
   1. I was somewhat able to complete this milestone (\*see below\*)
2. Create appropriate classes, variables, and/or methods to recursively search media makers for other media makers (25pts)
   1. I was somewhat able to complete this milestone (\*see below\*)
3. Create appropriate classes, complete with variables and methods, for the new views (5pts)
   1. Completed
4. Revise as necessary the classes, including variables and methods, of the existing model, controller, and views to allow them to correctly interact with the new methods and views (15pts)
   1. Completed
5. Improve the robustness of your code by adding exception handling (15pts)
   1. Completed

* Develop and use a proper design (15pts)
* Use proper documentation and formatting (10pts)

*Note on Degrees of Separation:*

I was unable to fully complete milestones 1 and 2. I set up a proper view to show the data that would have been found through a proper degreesOfSeparation recursive method, but was unable to complete the method itself. Additionally, I created proper variables to store the found values, but again was unable to fully implement them. I did account for exceptions when clicking the “degrees of separation” button.