**Final Project: C212 Spring 2019**

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**Movie Theater Java Application**

Things to know: This is an Eclipse project. So all of the java source code can be found in the folder named src.

* This Movie Theater Application has three main perspectives, Customer View, Payment View, and Manager View. Each of which are explained thoroughly in description.pdf.
  + Briefly, the application serves as a way to view upcoming movies, purchase tickets, and in "Manager Mode", edit any movie details.
* Note: Separate drivers are not necessary to run this program.  There is one driver, and this will run the whole program.

**System Features**

The features listed are required of us and have been or will be implemented.

**public class MainWindow {}** //Creates all movie object; and serves as the main function to entire application that holds universal methods.

**public class CustomerView {}** //Entry point to the program. Movie selection is displayed on buttons. User can sort movies based on genre and rating (via Movie class). Option to purchase tickets (via ShoppingCart).

**public class Payment {}** //Takes the type of payment (cash or credit), billing infomation, updates the Theater class. Holds special deals (methods).

**public class Ticket {}** //Sets ticket price; and sets the new ticket price based upon the deal.

**public class ShoppingCart {}** //Stores user's tickets; prints receipt.

**public class Manager {}** //This portion of the project is password protected, but once in this mode, the user can add, and edit movie details.

**public class Movie {}** //Updates movies (edit and add), and updates movie database as well. Sorts movies by genre and rating.  Holds panels for dropdowns for number of tickets (connected to ShoppingCart), dropdowns for showtimes, and buttons for each movie (movie selection, add, edit).

**Files/Database**

.txt files can be found in the repository.  movies.txt holds the data for all movies available for purchase.  Fields include: title, genre, year, and rating. Additionally there is another .txt file holding editable movie data. Fields include: title, genre, ticket price, runtime, rating, and showtimes.