CSE 211 Data Structures Term Project

Movie Quiz

Due: May 14th 2018

The aim of this project is to write a quiz application about movies using linked lists. The game is simple. The application generates quizzes for users with 10 questions. The result of the quiz is displayed at the end.

Your initial data can be read from a file at the beginning of the application run. You are free to choose any format for the file. However you should have enough number of movies in the file so that the quiz can be fun.

Here is a quiz question:

Which year was the movie "La La Land" released?

a. 2017 b.2018 c.2014 d. 2016

Another question:

Which year the following movies was released in 2017?

a. Rocky b. Jurassic Park c. Titanic d. La La Land

The application should have a robust randomization so that users will enjoy different varieties of questions every time they take a quiz.

The answer from the user will be checked by the application. After each question the current score of the user will be displayed. After the 10th question the game ends and asks for another game.

Your application should allow users to modify your data base. That means any user can add, remove or modify movie data. You should build an interface where the users can select and perform these operations.

Note that during modification and deletion the user will enter a Movie Name first. The application should search and find the movie if it is in the list. Then its release year can be changed.

The application should have a listing option that prints all the movies for a given year.

The data structure you have selected should be dynamic so that we can add as many movies as we want, and also we can use this application any time (even 10 000 years from now!!!).

General Requirements for Coding

Note that your grade will be given according to correctness, readability, efficiency and overall performance of your coding. The following requirements will also influence the grade you will get:

1. The application should perform an **<u>error check</u>** for each input operation. Error check should verify that the input is being entered or read in a correct form.
2. As a good programmer, follow an indent style. Check http://www.wiki-zero.com/index.php?q=aHR0cHM6Ly9lbi53aWtpcGVkaWEub3JnL3dpa2kvSW5kZW50YXRpb25fc3R5bGU to find a style that suits for you. Follow you style in every part of the source code.

Submission

The source code of the project should be submitted on COADSYS.
There will be a project demo of the project. In the demo, you are required to run the application and perform the required operations. The time of the demo will be announced later.

Good Luck!