CSCI 2421 Final project report

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Functions:

void readmov(vector<Movie> &movies);

read in movies to vector

void addmov(vector<Movie>&movies);

add new movie object to vector

void searchname(vector<Movie>&movies);

search movie by name

void sort(vector<Movie>&movies);

sort movie by designated field

void display(vector<Movie>&movies);

show movie list after modification

void complete(vector<Movie>&movies);

complete search in each field

void partial(vector<Movie>&movies);

partial search in each field if field value contains keyword

void output(vector<Movie>&movies);

output modified movie list to new file

void readname(vector<Player> &players);

read in actor/actress names

void addname(vector<Player>&plyaers);

add a new actor/actress

void searchname(vector<Player>&players);

search an actor/actress by name

void sort(vector<Player>&players);

sort actor/actress by designated field

void display(vector<Player>&players);

show actor/actress list after modification

void complete(vector<Player>&players);

complete search in each field

void partial(vector<Player>&players);

partial search in each field if field value contains keyword

void output(vector<Player>&players);

output modified actor/actress list to new file

overall program structures

Program contains to databases, user can choose which to access in top menu. We have two sub menus for each data base, they are quire similar, both of them can perform add, search and sort functions to modify the list. Menus will continue until user choose to quit.

Using movies database as example

For read function, we use a class to define a movie object, create a loop, then read csv file to a temporary movie object, and push into vector, the end of the first turn of loop.

For add function, we create a temporary object, ask user for its information then push it into vector.

For all search functions, we ask user for keyword then traverse vector to find matching object for keyword.

For output function, we put whole vector to ofstream to create a new file to store them.

Status of the program

It performs perfect in read, add, search and output functions. We also have modular menus and unified UI for this project. It compile and runs perfect both in Clion and Csegrid environment.