Project 2: Media For You

Program Description:

For this project your group will be creating a system to allow a user to search through a collection of movies, tv shows, and books and find information regarding media they may wish to obtain. This system will both perform an analysis of the specified data, generate statistics, and provide a graphical user interface for the user to interact with the system.

Program Requirements

- This is a team-based project, as such, only one member of your group should create a private repository on GitHub to store the code and add the other group members to it
 - Each group member should make at least 3 substantial commits to the group repository during development
 - Consider making a commit to the repository after completing one of the superclasses or subclasses or after completing a major function
- The book files data will be in tab delimited format with the first line of the file containing the data headers, all other lines will contain data conforming to the headers, and the headers will always be in the order presented
 - o The number of entries in a file will vary from file to file
- The shows files data will be in tab delimited format with the first line of the file containing the data headers, all other lines will contain data conforming to the headers, and the headers will always be in the order presented
 - The number of entries in a file will vary from file to file
 - This file contains data on both movies and tv shows, as indicated by the second column of data in the file
 - Note there may not be data for every column of data for each entry
- All member variables should be protected or private depending on if they are in an inheritance relationship or not
- Your program must have a Media class, stored in a Media.py file, that must contain at least the following:
 - Member variables to store an ID, a title, and an average rating
 - An appropriate constructor that takes in an ID, a title, and an average rating as parameters and assigns those values to the appropriate member variables
 - Appropriate accessor/mutator functions
- Your program must have a Book class, that is a subclass of Media, stored in a Book.py file, that must contain at least the following:
 - Member variables to store authors, an isbn number, an isbn13 number, a language code, the number of pages in the book, the number of ratings given to the book, the publication date, and the publisher

- An appropriate constructor that takes in an (D, a title, an average rating, authors, an isbn number, an isbn13 number, a language code, the number of pages in the book, the number of ratings given to the book, the publication date, and the publisher as parameters and assigns those values to the appropriate member variables
- Appropriate accessor/mutator functions
- Your program must have a Show class, that is a subclass of Media, stored in a Show.py file, that must contain at least the following:
 - Member variables to store the type of show, directors, actors, a country code, the date the show was added, the year the show was released, the rating, the duration, genres, and a description
 - An appropriate constructor that takes in an (D, a title, an average rating, the type of show), directors, actors, a country code, the date the show was added, the year the show was released, the rating, the duration, genres, and a description as parameters and assigns those values to the appropriate member variables
 - Appropriate accessor/mutator functions
- Your program must have a Recommender class, stored in a Recommender.py file, that must contain
 at least the following:
 - An appropriate constructor that instantiates three dictionaries
 - one to store Book objects, where the book's id is the key and the value is the object
 - one to store Show objects, where the show's id is the key and the value is the object
 - one to store dictionaries keeping track of associations, where a show or book id is the key and the value is a dictionary
 - For the inner dictionary, the key should be a show or book id and the value is the number of times the outer id and inner id are associated
 - A function named loadBooks (), that takes in no additional parameters, returns nothing, loads all of the data from a book file, and which should at least:
 - Prompts the user for the name of the file using an appropriate filedialog, and if the
 user does not choose an existing file, it should repeatedly prompt the user for a file in
 the same way
 - Opens and reads the file one entry at a time
 - Stores the entry for each book in a Book object
 - Stores each Book object in the appropriate dictionary using the book's ID as the key and the Book object as the value
 - Close the file once all of the data has been read in
 - A function named loadShows (), that takes in no additional parameters, returns nothing, loads all of the data from a show file, and which should at least:
 - Prompts the user for the name of the file using an appropriate filedialog, and if the
 user does not choose an existing file, it should repeatedly prompt the user for a file in
 the same way
 - Opens and reads the file one entry at a time
 - Stores the entry for each show in a Show object

- Stores each Show object in the appropriate dictionary using the show's ID as the key and the Show object as the value
- Close the file once all of the data has been read in
- A function named loadAssociations(), that takes in no additional parameters, returns
 nothing, loads all of the data from an association file, and which should at least::
 - Prompts the user for the name of the file using an appropriate filedialog, and if the
 user does not choose an existing file, it should repeatedly prompt the user for a file in
 the same way
 - Opens and reads the file one entry at a time
 - Using the first id as a key, determine if there is a dictionary associated with it
 - It not, create a new dictionary and then add the second id to the new dictionary so that the second id is associated with the value 1
 - Otherwise, determine if the second id is a key in the second dictionary
 - o If it is, increment the count associated with it by 1
 - Otherwise, set the count associated with it to 1
 - Perform the same steps again, but this time use the second id for the outer dictionary and the first id for the inner dictionary
 - Close the file once all of the data has been read in
- A function named getMovieList(), that takes in no additional parameters, and returns the Title and Runtime for all of the stored movies, such that
 - The data has the header Title and Movie
 - All of the data is in neat, even columns, whose width is determined based on the length of the entries in the data
- A function named getTVList(), that takes in no additional parameters, and returns the Title and Number of Seasons for all of the stored tv shows, such that:
 - The data has the header Title and Seasions
 - All of the data is in neat, even columns, whose width is determined based on the length of the entries in the data
- A function named getBookList(), that takes in no additional parameters, and returns the
 Title and Author(s) for all of the stored movies, such that:
 - The data has the header Title and Author(s)
 - All of the data is in neat, even columns, whose width is determined based on the length of the entries in the data
- A function named getMovieStats(), that takes in no additional parameters, and returns
 the statistics regarding movies, such as:
 - Rating for movies (G, PG, R, etc...) and the number of times a particular rating appears as
 a percentage of all of the ratings for movies, with two decimals of precision
 - Average movie duration in minutes, with two decimals of precision
 - The director who has directed the most movies
 - The actor who has acted in the most movies
 - The most frequent movie genre

- A function named getTVStats(), that takes in no additional parameters, and returns the statistics regarding tv shows, such as;
 - Rating for tv shows (G, PG, R, etc...) and the number of times a particular rating appears
 as a percentage of all of the ratings for tv shows, with two decimals of precision
 - Average number of seasons for tv shows, with two decimals of precision
 The actor who has acted in the most tv shows
 - The most frequent tv show genre
- A function named getBookStats(), that takes in no additional parameters, and returns the statistics regarding books, such as:
 - The average page count, with two decimals of precision
 - The author who has written the most books
 - The publisher who has published the most books
- A function named searchTVMovies(), that takes in strings representing a movie or tv show, a title, a director, an actor, and a genre, and returns information regarding Movies or TV Shows such that:
 - If the string representing the movie or tv show is neither Movie nor TV Show, spawn a showerror messagebox and inform the user the need to select Movie or TV Show from Type first, and return the string No Results
 - If the strings representing title, director, actor, and genre are all empty, spawn a showerror messagebox and inform the user the need to enter information for the Title, Directory, Actor and/or Genre first, and return the string No Results
 - Otherwise, search through the dictionary of shows and select all objects that adhere to the user's data
 - Return a string containing the Title, Director, Actors, and Genre (with those titles at the top) in neat, even columns, whose width is determined based on the length of the entries in the data
- A function named searchBooks (), that takes in strings representing a title, an author, and a
 publisher, and returns information regarding books such that:
 - If the strings representing title, author, and publisher are all empty, spawn a showerror messagebox and inform the user the need to enter information for the Title, Author, and/or Publisher first, and return the string No Results
 - Otherwise, search through the dictionary of books and select all objects that adhere to the user's data
 - Return a string containing the Title, Author, and Publisher (with those titles at the top)
 in neat, even columns, whose width is determined based on the length of the entries in the data
- A function named getRecommendations (), that takes in strings representing a type and a title, and returns a string containing recommendations regarding Movies, TV Shows, or Books such that:
 - If the type is Movie or TV Show, search through the shows dictionary and determine the id associated with that title

- If the title is not in the dictionary, spawn a showwarning messagebox informing the user that there are no recommendations for that title, and return No results
- Otherwise, using that movie or tv show id, determine all of the books associated with that id in the association dictionary, and return a string containing all of the information for each book with appropriate titles for each piece of information
- If the type is Book, search through the books dictionary and determine the id associated with that title
 - If the title is not in the dictionary, spawn a showwarning messagebox informing the user that there are no recommendations for that title, and return No results
 - Otherwise, using that book id, determine all of the movies and tv shows associated with that id in the association dictionary, and return a string containing all of the information for each movie or tv show with appropriate titles for each piece of information
- Your program must have a RecommenderGUI class, stored in a RecommenderGUI.py file, that must contain at least the following:
 - A constructor function that takes in no parameters and:
 - Creates an instance of a Recommender object and stores it in a variable
 - Creates a Toplevel main window, with an appropriate title, and dimensions of 1200 pixels wide by 800 pixels tall
 - Contains a notebook tab to display all of the movie titles and runtimes, as well as the movie statistics
 - This tab should be populated using the appropriate functions from the Recommender object
 - The user should be able to scroll through the title and runtimes
 - If no data has been loaded yet, both text areas should display default text informing the user that no data has been loaded yet
 - The user should not be able to alter the data in the text areas
 - Contains a notebook tab to display all of the tv show titles and seasons, as well as the tv show statistics
 - This tab should be populated using the appropriate functions from the Recommender object
 - The user should be able to scroll through the title and seasons
 - If no data has been loaded yet, both text areas should display default text informing the user that no data has been loaded yet
 - The user should not be able to alter the data in the text areas

Contains a notebook tab to display all of the book titles and authors, as well as the book statistics

- This tab should be populated using the appropriate functions from the Recommender object
- The user should be able to scroll through the title and authors
- If no data has been loaded yet, both text areas should display default text informing the user that no data has been loaded yet
- The user should not be able to alter the data in the text areas
- Contains a notebook tab to allow the user to search through the movies and tv shows and should contain
 - o A Combobox with the options Movie and TV Show
 - Appropriate Label and Entry widgets to collection information regarding the title, director, actor, and/or genre
 - o A Button to trigger the search, which calls the appropriate function from the Recommender object and stores the results in the text area
 - If no searches have been performed yet, the text areas should display some default text to inform the user they need to enter data to perform a search
 - The user should be able to scroll through the results
 - The user should not be able to alter the data in the text area
- Contains a notebook tab to allow the user to search through the books and should contain
 - o Appropriate Label and Entry widgets to collection information regarding the title, author, and/or publisher
 - o A Button to trigger the search, which calls the appropriate function from the Recommender object and stores the results in the text area
 - If no searches have been performed yet, the text areas should display some default text to inform the user they need to enter data to perform a search
 - The user should be able to scroll through the results
 - The user should not be able to alter the data in the text area
- Contains a notebook tab to allow the user to obtain media recommendations and should contain
 - o A Combobox with the options Movie, TV Show, Book
 - Appropriate Label and Entry widgets to collection information regarding the title
 - A Button to trigger the recommendation search, which calls the appropriate function from the Recommender object and stores the results in the text area
 - o If no searches have been performed yet, the text areas should display some default text to inform the user they need to enter a title to receive a recommendation
 - o The user should be able to scroll through the results
 - The user should not be able to alter the data in the text area
- Buttons below the notebook that will have appropriate names and will;
 - o Load the show data using the loadShows () function
 - Load the book data using the loadBooks () function

- o Load the association data using the loadAssociations()
- Spawn a dialog containing the information regarding your team using the creditInfoBox()
- Quit the program
- A loadShows () function that takes in no parameters, returns nothing, and:
 - Calls the appropriate function from the Recommender object to read in all of the data for the shows
 - Calls the appropriate function from the Recommender object to obtain the string representing the list of movies and the string representing the movie statistics and displays them in the appropriate text area
 - Calls the appropriate function from the Recommender object to obtain the string representing the list of tv shows and the string representing the tv show statistics and displays them in the appropriate text area
- o A loadBooks () function that takes in no parameters, returns nothing, and:
 - Calls the appropriate function from the Recommender object to read in all of the data for the books
 - Calls the appropriate function from the Recommender object to obtain the string representing the list of books and the string representing the book statistics and displays them in the appropriate text area
- o A loadAssociations () function that takes in no parameters, returns nothing, and:
 - Calls the appropriate function from the Recommender object to read in all of the data for the associations
- o A creditInfoBox () function that takes in no parameters, returns nothing, and:
 - Spawns a showinfo messagebox containing the names of each of your group members and what day the project was completed on
- A searchShows () function that takes in no parameters, returns nothing, and:
 - Extracts all of the data from the appropriate Combobox and Entry widgets to search for a movie or tv show
 - Calls the appropriate function from the Recommender object to search for a movie or tv show, passing in the information from the Combobox and Entry widgets, and then displaying the returned string in the appropriate text area
- o A searchShows () function that takes in no parameters, returns nothing, and:
 - Extracts all of the data from the appropriate Entry widgets to search for a book
 - Calls the appropriate function from the Recommender object to search for a book, passing in the information from the Entry widgets, and then displaying the returned string in the appropriate text area
- A getRecommendations () function that takes in no parameters, returns nothing, and:
 - Extracts all of the data from the appropriate Combobox and Entry widgets,
 - Calls the appropriate function from the Recommender object to obtain recommendations, passing in the information from the Combobox and Entry widgets, and then displaying the returned string in the appropriate text area

- Outside of the class, the RecommenderGUI.py should also contain a main function that instantiates an instance of a RecommenderGUI and then calls the tkinter mainloop () function
- No global scoped variables, other than those specified are allowed for this project
- Your code should be well documented in terms of comments. For example, good comments in general
 consist of a header (with your name, date, and brief description), documentation comments for
 function, comments for each variable, and commented blocks of code

Submission

- Your program will be graded largely upon whether it works correctly
- Your program will also be graded based upon your program style. This means that you should use comments (as directed) and meaningful variable names
- You must submit the Media.py, Book.py, Show.py, Recommender.py, and RecommenderGUI.py files
- You must submit the URL link to your repository and set the repository from private to public on May
 6th
- You must work in teams of 2 or 3 students for this project. You are not allowed to work with individuals outside of your team, other than the instructor and TA. Any discovered instances of this will be considered cheating and appropriate actions will the taken according to the course syllabus
- Additionally, you are not allowed to download code off of the internet or use generative AI for this
 project. Any discovered instances of this will be considered cheating and appropriate actions will the
 taken according to the course syllabus
- Be sure that you have tested the version of the program you wish to submit to make sure it works correctly. You will not be allowed to resubmit work after the deadline
- All students are expected to contribute relatively equally with respect to the coding for this project. If it
 is determined that one or more members of the team provided little to no substantive effort with
 respect to the coding, those member's project grades will be significantly penalized. If you are having
 issues with a teammate, please contact your instructor as soon as possible

Rubric

The entire assignment is worth 100 points and partial credit is possible. No credit will be given for portions of the program that cannot be tested due to the program crashing or the code being unreachable due to logic errors.

Program Executes Successfully

 If your program crashes due to syntax errors, you will lose 10 points, but we will attempt to fix minor issues (incorrect indentations, stray character, missing import) so that we can execute and test the program. We will not fix major issues that would require functionality to be further implemented, or a reorganization of logic in your code.

Data Storage (10 points)

 Each of the data storage classes Media, Book, and Show are setup as specified and use inheritance as appropriate

Movies Tab (10 points)

- The correct movie data is loaded into the appropriate text area, using the appropriate functions, when the Load Shows button is clicked (5 points)
- The correct movie statistics data is calculated and loaded into the appropriate text area, using the appropriate functions, when the Load Shows button is clicked (5 points)

TV Shows Tab (10 points)

- The correct tv show data is loaded into the appropriate text area, using the appropriate functions, when the Load Shows button is clicked (5 points)
- The correct tv show statistics data is calculated and loaded into the appropriate text area, using the appropriate functions, when the Load Shows button is clicked (5 points)

Books Tab (10 points)

- The correct book data is loaded into the appropriate text area, using the appropriate functions, when the Load Books button is clicked (5 points)
- The correct book statistics data is calculated and loaded into the appropriate text area, using the appropriate functions, when the Load Books button is clicked (5 points)

Search Movies/TV Tab (10 points)

- Appropriate widgets are displayed and used to collect user information (5 points)
- The correct movie or tv show data is loaded into the appropriate text area, using the appropriate functions, when the Search button is clicked (5 points)

Search Books Tab (10 points)

- Appropriate widgets are displayed and used to collect user information (5 points)
- The correct book data is loaded into the appropriate text area, using the appropriate functions, when the Search button is clicked (5 points)

Recommendations Tab (15 points)

- Appropriate widgets are displayed and used to collect user information (5 points)
- The correct movie and tv recommendations are loaded into the appropriate text area, using the appropriate functions, when the Get Recommendation button is clicked (5 points)
- The correct book recommendations are loaded into the appropriate text area, using the appropriate functions, when the Get Recommendation button is clicked (5 points)

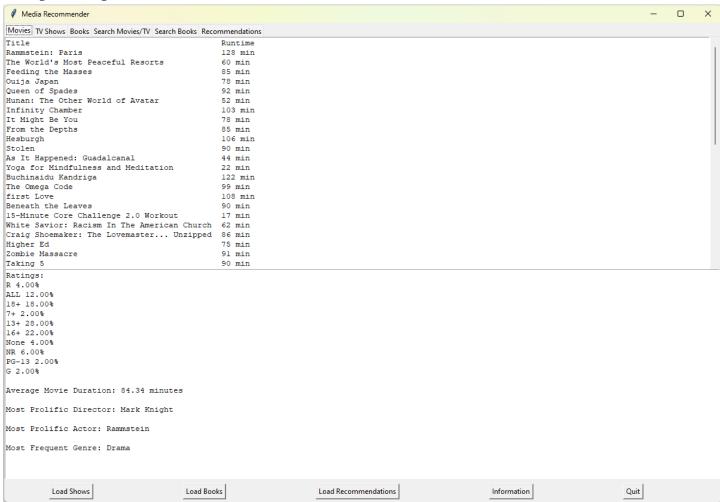
Buttons (10 points)

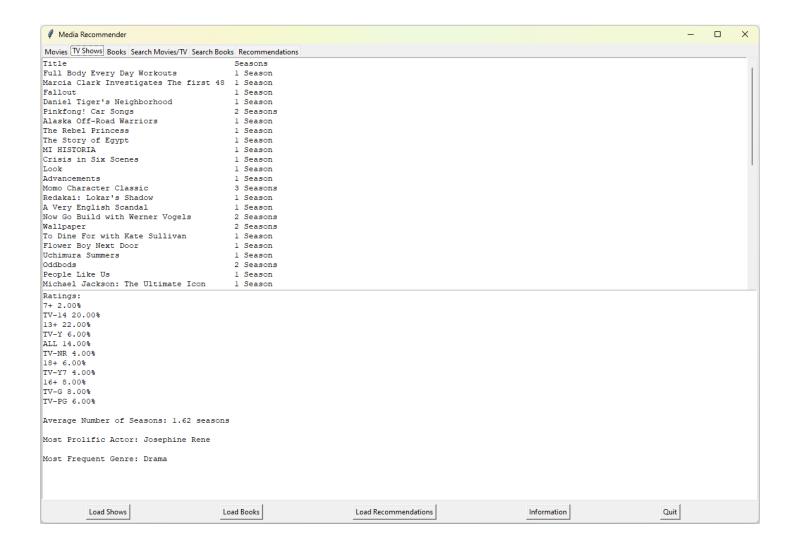
- Load Shows, Load Books, Load Recommendations, Information and Quit, buttons call the appropriate functions (10 points)
- Each group member made at least three substantial commits to GitHub (5 points)
- Program contains sufficient comments (5 points)
- Group completed and submitted the Project Expectations Document (5 points)

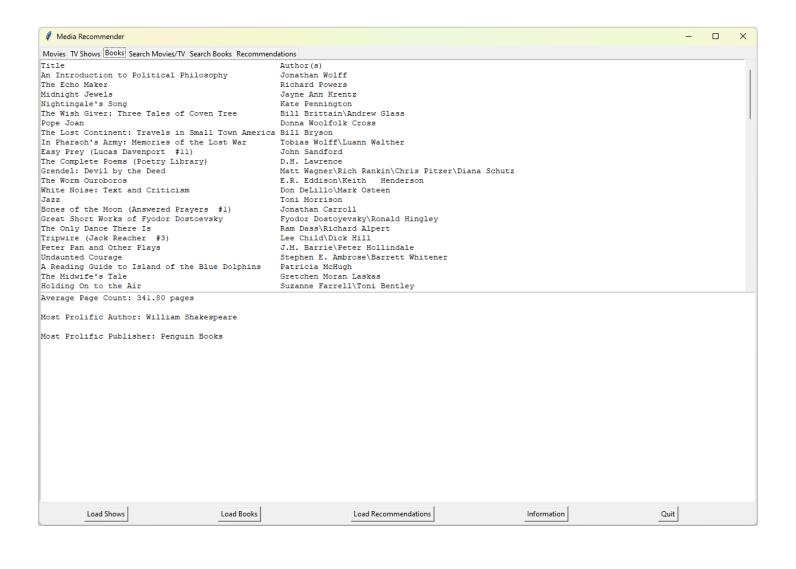
Bonus

For 10 bonus points, create a new Notebook tab called Ratings that will store two matplotlib pie charts. One pie chart will show each percentage of ratings (G, PG, R, etc...) for movies, and the other pie charts will show the percentage of ratings for tv shows. Be sure to include the label (G, PG, R, etc.) and percentage value (with two decimals of precision) for each slice of the pie chart. Note you will need to use a tkinter Canvas widget to display the pie charts.

Sample Output







Taking 5 Andrew Waller Alona Tal\Daniella Monet\Christy Carlson Romano Comedy Gunde Pranayam Jangeti Sravani Rajesh OS. Sangeeth\Indu\Baburao\Meesala Vijay\Bhanu Action\Comedy\Drama Standby Rob Burke\Ronan Burke Jessica ParÃ@\Brian Gleeson Comedy Yakov Smirnoff: What A Country! Yakov Smirnoff Yakov Smirnoff Arts\Entertainment\and Culture\Comedy\Special Interest It's a Wonderful Afterlife Gurinder Chadha Sanjeev Bhaskar\Steve Morphew\Kate Magowan Comedy\Drama				-	×
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David Crowe: Crooked finger Steve Wilson David Crowe Arts\Entertainment\and Culture\Comedy\Special Interest	Yakov Smirnoff: What A Country! Culture\Comedy\Special Interest	Yakov Smirnoff	Yakov Smirnoff	Arts\Entertainment\and	
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Movies TV Shows Books Search Movies/TV Search Books Recor	mmendations			
Type: TV Show				
Title:				
Director:				
Actor:				
Genre: Drama				
Search				
Title Direc	tor Actor	Genre		
Marcia Clark Investigates The first 48	Marcia Clark	Drama		
Alaska Off-Road Warriors		Documentary\Drama\Unscripted		
The Rebel Princess	Zhang Ziyi\Zhou Yiwei	Drama\Romance		
Look	Colton Haynes\Ali Corbin	Drama		
A Very English Scandal	Hugh Grant\Ben Whishaw\Alex Jennings	Drama		
Flower Boy Next Door	Park Shin-hye\Yoon Shi-yoon\Kim Ji-hoon	Comedy\Drama\Romance		
Atlanta Plastic	Sidney Starr\Mike Forbs	Documentary\Drama\Unscripted		
The Bold and the Beautiful	John McCook\Katherine Kelly Lang	Drama		
Junichi	Jun Shison\Mina Fujii\Mieko Harada	Drama\Romance		
Mysteries of the Superstition Mountains	Larry Hedrick\Hank Sheffer	Documentary\Drama\Suspense		
American Playboy	Hugh Hefner\Matt Whelan	Documentary\Drama\Special Interest		
SpongeBob DocuPants		Drama\Kids		
The Twin Flower Legend	Yu Xiao Tong\Guan Zhi Bin\Mao Xiao Hui\Kai Xuan	Drama\Romance		
Load Shows Load Book	Load Recommendations	Information Quit		

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Movies TV Shows Books Search Movies/TV Search Books Recommendations			
Title:			
Author: William Shakespeare			
Publisher:			
Search			
Title Author Twelfth Night William Shakespeare\Barbara A. Mowat\Paul Werstine Julius Caesar William Shakespeare\Marvin Spevack\Marga Munkelt			•
Load Shows Load Books	Load Recommendations Information	Quit	

