Assignment 4

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1. As a user I would like to keep track of my membership expiration date so I know when my membership will expire.

Description: Create a date class that keeps track of a member’s expiration date.

Tasks and Tests: Validate the date (check if it is a leap year, validate days in month, validate months in year ,etc.)

Assignee: Nick

Points: 4

Done: Once the date can be set and validated and printed.

1. As a user I would like to be able to see all the information related to my membership account.

Description: Create a class that represents a member with these attributes: name, number, type, expiration date, total spent, and membership cost.

Tasks and Tests: Write constructors for the class.

Write methods for the class.

Add virtual function for paying membership costs.

Assignee: Josh

Points: 7

Done: Once a member has been successfully created.

1. As a user with an executive account I would like to be able to see all the information related to my membership account.

Description: Create a class that represents an executive member. This will be derived from the member class.

Tasks and Test: Write the constructors for the class.

Write the methods for the class.

Assignee: Dallas

Points: 3

Done: Once an executive member has been successfully created.

1. As a user I would like to be able to use the program through a graphical user interface.

Description: Use Qt Creator to make a GUI for the program.

Tasks and Tests: Learn how to effectively use Qt.

Create buttons and a text window to show the attributes the user wants to see

Assignee: Dustin/Chris

Points: 10

Done: Once the user can utilize all parts of the program through the GUI successfully.

1. As a user I would like to be able to keep track of all of the members of the store.

Description: Create a class called store that will keep track of the members and purchases

Tasks and Tests: Create lists (linked list or vector) to hold each list of specific information.

Prints all purchases related to a membership number.

Assignee: Nick

Points: 9

Done: Once the user can properly add and remove members from the list and print the total purchases through the UI

1. As a user I would like to keep track of all of the purchases made in the store.

Description: Add to the store class a list of all of the purchases.

Tasks and Tests: Create another list for the purchases.

Print all purchases from a specific day or a specific person.

Assignee: Chris

Points: 4

Done: Once the user can view all of the purchases from a specific day or person.

1. As a user I would like to be able to see if it is worth it to upgrade to an executive account.

Description: Calculate whether or not a regular member would save money with an executive account.

Test and Tasks: Write an algorithm to find out how money they would save with an executive account.

Assignee: Dustin

Points: 5

Done: Once the user can see whether or not they should upgrade to an executive account.

1. As a user I would like to be able to see whether I should downgrade to a normal account.

Description: Calculate whether or not an executive member should downgrade to an executive account.

Test and Tasks: Write an algorithm to find out how much money they would save with a normal account.

Assignee: Dallas

Points: 5

Done: Once the user can see whether or not they should downgrade to a normal account.

1. As a user I would like to be able to add or delete items on the list of items I have bought.

Description: Allow the user to change the list of items that they have purchased.

Test and Tasks: Allow the user to see a list of everything they have purchased.

Allow the user to change the list.

Assignee: Josh

Points: 6

Done: Once the user can view, add, and delete items from the list of items purchased.

1. As a user I would like to be able to enter the name of an item and view all of the statistics about that item.

Description: Allow the user to search for an item name and view the quantity sold, price, and total revenue.

Test and Tasks: Allow the user to search for an item.

Print the quantity sold, price, and total revenue related to the item searched.

Assignee: Chris

Points: 5

Done: Once the user can search for an item and view all of the information related to that item.