

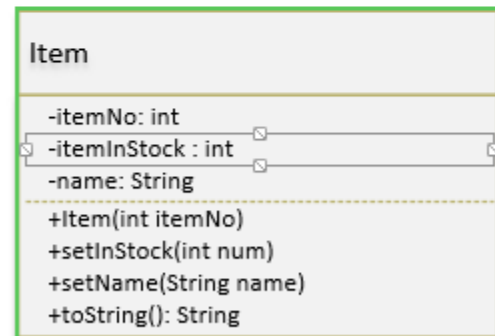
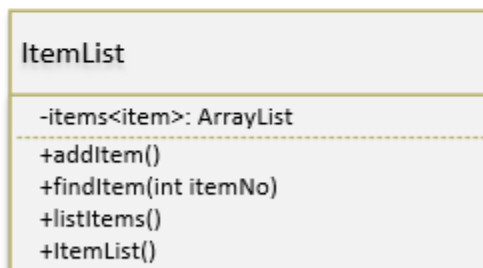
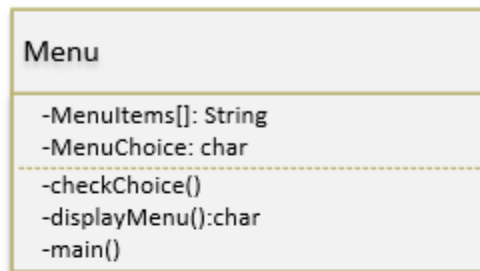
CIS170 Final Hands On Requirements

Our Item Inventory

1. Create an Item
2. Search for an item
3. Update an item
4. List all items
5. Exit

This is an example of the menu that your application should display.

Here is UML of the expected application.



The following is a list of the steps necessary to create the application. You will probably want to start by creating the Item class, then the ItemList, and finally the Menu.

Create a Menu class.

1. Load the MenuItems array with the menu choices
2. Create the displayMenu() method to display the menu and return the user choice
3. Create the checkChoice(char userChoice) method.
 - a. Call the appropriate itemsList method, based on the choice.
4. Create the main() method.
 - a. Instantiate the itemsList class so that there is an existing list
 - b. Allocate a userChoice variable and set it to 0
 - c. Begin a loop while the userChoice is not 5
 - d. Call the displayMenu() method within the loop
 - e. Call the checkChoice(char userChoice) method, passing the choice returned from the displayMenu method

Create an ItemList class.

1. Class field of arraylist of Item class instances
2. Constructor creates the new arraylist
3. addItem method prompts the user for the item id, name and in stock amounts
 - creates an instance of an Item
 - adds the item to the arraylist of Item instances
 - uses the Item's toString to display the Item's information
4. findItem method prompts the user for item id
 - searches the arraylist for an instance of item
 - calls the toString method to print out Item info if Item is found
 - prints a not found message if not found
5. listItems method processes each Item in the arraylist to print out it's toString info

Create an Item class.

1. Create the required class fields and methods as described in the UML
2. Create a toString() method to output the Item information as follows:

Item No: 999 Name: The item's name In Stock: the in stock number

The application will be tested to ensure that the menu properly displays, items can be added, searched for, and all items can be listed.