

Controller Class

WholesaleMain

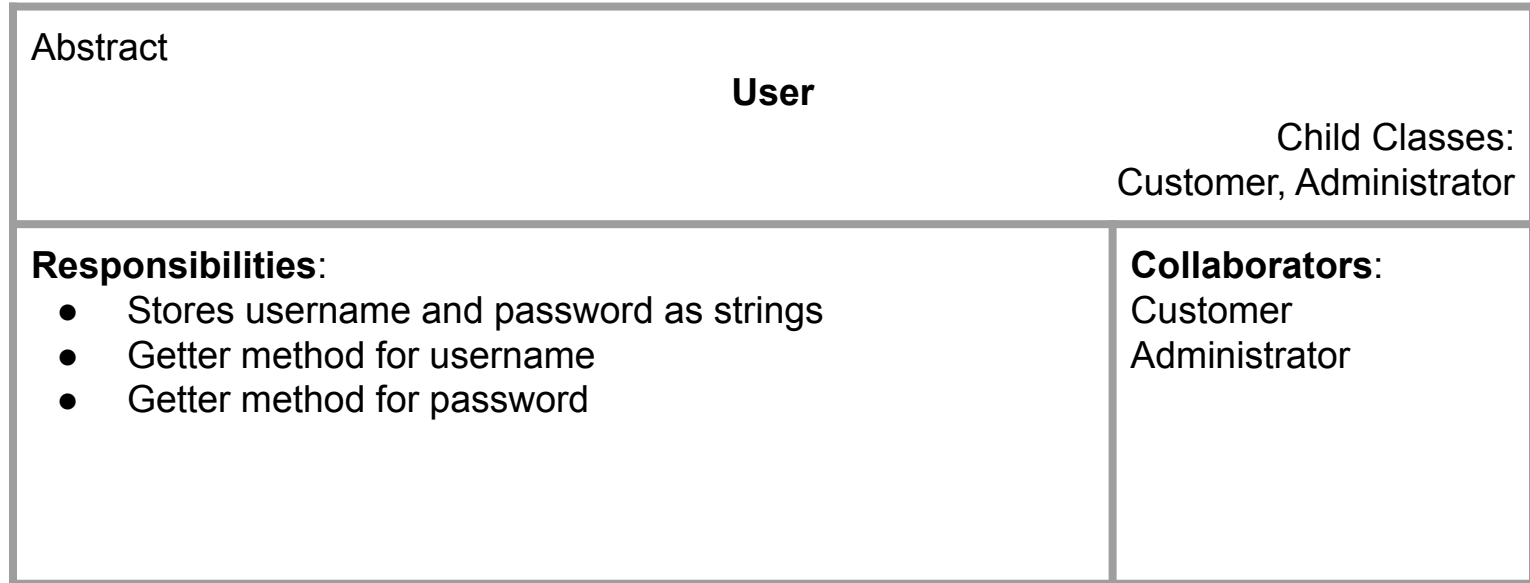
Responsibilities:

- Contains the program's main method
- Creates instance of TransactionSystem
- Creates instance of SystemInputOutput
- Calls TransactionSystem's initialize method using the instance of SystemInputOutput as parameter

Collaborators:

TransactionSystem
SystemInputOutput

Entity Class



Entity Class

Product	
Responsibilities: <ul style="list-style-type: none">• Stores the name, price, and stock quantity of each product• getName, getPrice, getStock methods• setStock method for updating stock quantity• setPrice method for updating price	Collaborators: Customer Administrator InventorySystem

Entity Class

Customer Parent Class: User	
Responsibilities: <ul style="list-style-type: none">• Inherits username and password from User's constructor• Each instance of customer has a shopping cart; a hashmap<Product, int>• add method which adds an integer quantity of a product to a customer's shopping cart• cartTotal method which returns the total cost of all the products in a customer's shopping cart	Collaborators: InventorySystem Product

Entity Class

Administrator Parent Class: User	
Responsibilities: <ul style="list-style-type: none">• Inherits username and password from User's constructor• Administrators are able to add products to inventory, modify product prices and stock quantities.	Collaborators: InventorySystem Product

Use Case Class

InventorySystem

Responsibilities:

- Store every product available in an inventory list
- Setter and getter methods for inventory
- createCustomer, createAdministrator, and createProduct methods
- productList method which returns a list of names of products
- availability method which checks if a product name is among the list of product names in the inventory
- findProduct method which returns the product associated with a provided product name
- addToCart method which adds a product of a specified quantity to a customer's cart if that product is available and the quantity specified is less than or equal to the product's stock quantity
- customerTotal method which returns a customer's total cost
- addToInventory method where an administrator adds a specified quantity of a product to the inventory if the inventory does not contain the product; otherwise updates the stock quantity of the product.

Collaborators:

Product
Customer
Administrator
TransactionSystem

Use Case Class

Membership	
Responsibilities: <ul style="list-style-type: none">• Membership number, valid date, expire date, mobile number, payment methods and shipping address.• discount method which gives a discount to a customer if the customer has a membership and their shopping cart is nonempty	Collaborators: TransactionSystem

Controller Class

TransactionSystem

Responsibilities:

- Initialize method which takes InputOutput as parameter
- Decides if a user is a customer or an administrator
- Instantiates a PromptIterator
- Instantiates an InventorySystem
- Takes user inputs and makes InventorySystem create a customer or administrator
- Takes user inputs and makes InventorySystem add products to shopping cart if user is a customer, and adds products to inventory if user is an administrator

Collaborators:

InputOutput
PromptIterator
InventorySystem

Gateway Class

Promptlterator

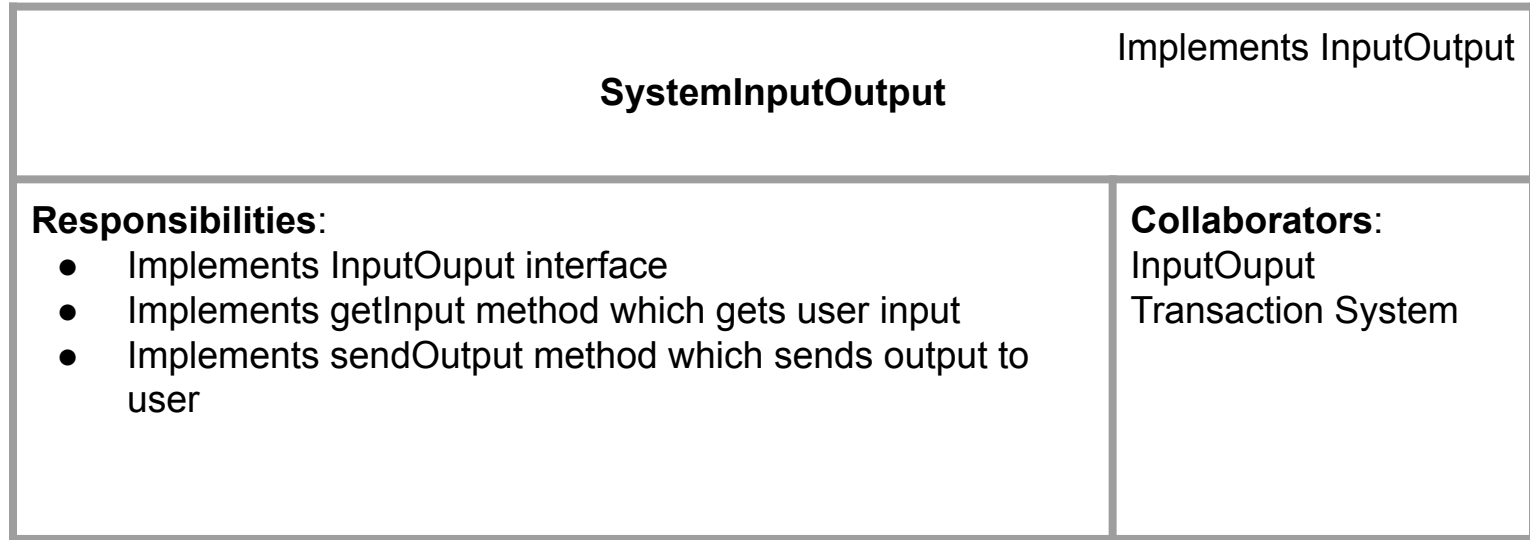
Responsibilities:

- Constructor takes a file as parameter
- Reads prompts from the file and adds prompts to a list of strings
- hasNext and next methods to iterate through list of prompts

Collaborators:

TransactionSystem

User Interface (Frameworks and Drivers)



User Interface (Frameworks and Drivers)

