

Our project is a program designed to provide an easy way for Admin to track the products information, customers' information, as well as purchases and sales information. There are two basic types of users: administrator and customer. To create an account, both types of users need to provide a personal email address, enter their username, password, and secret code in the corresponding text field. If the secret code entered by the user matches the default secret code that we created, then the user is verified as an Admin; otherwise, the user is verified as a customer. Then, information including username, password, email address, and user's type gathered from UI will be stored in a CSV document through the gateway class in the User package.

After logging in, in the customer case, they can click the "new order" bottom to access all the available items in the system. Then, users can type in what they want (item name and quantity) and click the "submit order" button to place orders. After that, the purchase information including order ID, requested items' name and quantity, the date can be forwarded to the inventory package as a newly generated order object for further processing. In Inventory class, stock in and stockout functionality can be accomplished by reading and writing the CSV file which stores item information by Inventory Controller based on previous information. Finally, customers can view their simplified order history containing order ID, order date, and the total item number by clicking the "Order history" bottom. Furthermore, by selecting specific order history, customers can view details in each order history, such as item names with corresponding items' numbers. The only difference between admins and customers in terms of viewing order history is that Admins can view all the order histories despite username, whereas customers can only view their own order histories.

In our program, administrators and customers can communicate with each other through email by clicking the "Message" bottom. By having the communication function available in our program, customers can reach out to administrators for asking questions and raising other requirements about adding new items in inventory, etc.