Our project is a program designed to provide an easy way to track the products, customers, as well as purchases and sales information. There are two basic types of users: administrator and customer. To create an account, users need to provide a personal email address, create their username and password, and choose the corresponding user’s type. All personal information will be stored in a csv document as database and linked with an auto-generated id. For instance, the first user of our program will be assigned an id of “001”; then, the second user will have “002” as his/her id. After logging in, the welcome message will show up for users. In the customer case, they can click the “new order” bottom to access all the available items in the system. Then, the users will type in what they want and click the place order button. After that, the purchase information including order ID, requested items’ name and quantity, date will be forwarded to the inventory in a newly-generated order object for further processing. Inventory can have stock in and stockout by Inventory Controller based on previous information. Finally, an auto-generated receipt containing purchase information will be delivered to customers in a pop-up window. An auto-generated text which shows that the order is placed successfully will pop-up and be displayed in the GUI.

In our program, administrators can view the purchase information that is gathered during customers place a new order. Moreover, 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.