**CCS 103 Final Project Documentation**

**Part I: Project Overview**

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| **Name of Application:** | **Liquor Ordering System** |
| **Group Members:** | Subrio, Charryl Lomarda, Ismael Marlon Maestrado, Jazfer |
| **Application Description:** | This Liquor Ordering System application allows users to create an account, log in, browse a list of liquors, and place orders. Logged-in users can place an order by specifying the name of the liquor and quantity of order. The system checks stock availability and deducts the ordered amount if successful. It then displays an order confirmation with the total price and saves the order details to a text file. The application can load and save data of the user's credentials and list of liquors from and to text files. |
| **String Functions used:** | **strlen** – used to get the length of username and password for validation purposes.  **strcmp** - used to compare usernames and passwords for login.  **strcpy** - used to copy the contents of the name array into the name field of a struct called liquor.  **strcspn** - used to remove the trailing newline character from the input string liquor name, making it easier to process and compare with other strings. |
| **Array used:** | **valid\_choice[3]**: Array of integers, used to store valid main menu choices.  **users[MAX\_USERS]**: Array of struct User, used to store user information such as usernames and passwords.  **liquors[MAX\_LIQUOR]**: Array of struct Liquor, used to store liquor information such as names, prices, milliliters, and stock quantities. |

**Part II: Functions used**

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| **Function** | **Description** | **Member assigned** |
| **load\_data** | Loads user and liquor data from external files (users.txt and liquors.txt) into the program's memory. | Charryl Subrio |
| **getMenuChoice** | Displays the main menu and retrieves the user's choice, ensuring it is a valid option. | Ismael Marlon Lomarda |
| **create\_account** | Allows a user to create a new account by entering a valid username and password. | Jazfer Maestrado |
| **is\_username\_valid** | Checks if a username is valid based on certain criteria, such as length and characters allowed. | Charryl Subrio |
| **is\_password\_valid** | Checks if a password meets the minimum length requirement. | Ismael Marlon Lomarda |
| **login** | Handles the user login process, including username and password validation. | Jazfer Maestrado |
| **find\_user\_index** | Handles the user login process, including username and password validation. | Charryl Subrio |
| **display\_liquors** | Displays a list of available liquors with their details (name, ml, price, stock). | Ismael Marlon Lomarda |
| **order\_liquor** | Handles the process of ordering a liquor, including quantity validation, stock check, and updating stock levels. | Jazfer Maestrado |
| **find\_liquor\_index** | Finds the index of a liquor in the liquors array based on the provided liquor name. | Charryl Subrio |
| **strcmp\_nocase** | Compares two strings case-insensitively. | Ismael Marlon Lomarda |
| **export\_receipt** | Generates a receipt for a liquor order, including details such as username, date, liquor name, quantity, and total amount. | Jazfer Maestrado |
| **save\_data** | Saves user and liquor data from the program's memory back to external files (users.txt and liquors.txt). | Charryl Subrio |