**Processes**

**Label:**

PRC 1- Verify Inventory

**Description:**

This process verifies the inventory information.

**Decomposition:**

RECEIVE Inventory Request from User

RECEIVE Inventory Response from Inventory

SEND Inventory Request to Inventory

SEND Inventory Response to User

**Label:**

PRC 2- Generate Report

**Description:**

This process generates a report on the inventory

**Decomposition:**

RECEIVES Report Request from Verify Information

SEND Report Response to Verify Information

**Label:**

PRC 3- Accept Username & Password

**Description:**

This process accepts the username and password.

**Decomposition:**

RECEIVES Login Credentials from User

RECEIVES Login Response from Verify Username & Password

SEND Login Credentials to Verify Username & Password

SEND Login Response to User

**Label:**

PRC 4- Verify Username & Password

**Description:**

This process verifies that the username and password were entered correctly per the guidelines.

**Decomposition:**

RECEIVES Login Credentials from Accept Username & Password

RECEIVES Login Response from Username & Password

SEND Login Credentials to Username & Password

SEND Login Response to Accept Username & Password

**Label:**

PRC 5- Updated Inventory Added

**Description:**

This process updates the current inventory being added.

**Decomposition:**

RECEIVES Liquor Purchased from User

SEND Liquor Purchased to Inventory

**Label:**

PRC 6- Updated Inventory Used

**Description:**

This process updates the liquor on hand based on liquor count.

**Decomposition:**

RECEIVES Liquor Count from Stock on Hand

SEND Liquor Count to Inventory

**External Entities**

**Label:**

EXT 1- User

**Description:**

This is an external entity; this is the person who is using the system.

**Label:**

EXT 2- Stock on Hand

**Description:**

This is an external entity; keeps track of current stock on hand.

**Data Stores**

**Label:**

DS 1- Username & Password

**Description:**

Data store confirms that entered username and password are valid.

**Label:**

DS 2- Inventory

**Description:**

Data store that stores all the inventory information.

**Data Flows**

**Label:**

Login Credentials

**Description:**

This data flow will carry the user username and password to enter the system.

**Decomposition:**

Username

Password

**Label:**

Login Response

**Description:**

This data flow carries the login response.

**Decomposition:**

Username

Password

**Label:**

Inventory Request

**Description:**

This data flow request information about current inventory

**Decomposition:**

Current levels of stock

Brands

**Label:**

Inventory Response

**Description:**

This data flow carries the inventory response.

**Decomposition:**

Current levels of stock

Brands

**Label:**

Report Response

**Description:**

This data flow sends the generated report back.

**Decomposition:**

Current Level of stock

Brands

**Label:**

Report Request

**Description:**

This data flow sends the request to generate report.

**Decomposition:**

Current level of stock

Brands

**Label:**

Liquor Purchased

**Description:**

This data flow sends the liquor purchased information.

**Decomposition:**

Brands

Number of bottles purchased

**Label:**

Liquor Count

**Description:**

This data flow that carries the current count of all liquor

**Decomposition:**

Current level of stock

Brands