**The Bar System**

**Use Cases & Test Cases**

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**Use Case for the Login System**

* **Name** : Login System.
* **Description**: Authenticates an employee to the system.
* **Actor** : Employees.
* **Pre-condition:** The employee is present at work.
* **Post-condition:** The system grants access privileges to the system.

**Main Course:**

**1.)** The employee is prompted to authenticate to the system.

**2.)** The employee enters his/her credentials.

**Exception:**

**2a.)** If the employee fails to authenticate for the first try. Repeat Step 2.

**2b.)** If the employee clicks “Cancel” button, then use case exits.

**3.)** The Employee will then be successfully logged (authenticated) to the system.

**4.)** Each user will have specific privileges for each feature.

**Test Case for Login System (Manager)**

**Given:**

Manager “Frederico” wants to log in to the system with username “frederico” and password “1234”.

**When:**

Frederico inputs his username “frederico” and password “1234” to the textbox, and clicks the “Submit” button.

**Then:**

Frederico successfully authenticates to the system with the features: “Add Item”, “Add Supplier”, “Add Cashier Sale”, “Update Inventory: Items & Suppliers”, “Generate Inventory List: Items, Suppliers & Sales” are enabled.

**Test Case for Login System (Supervisor)**

**Given:**

Supervisor “Jenefer” wants to log in to the system with username “jenefer” and password “4321”.

**When:**

Jenefer inputs her username “jenefer” and password “4321” to the textbox, and clicks the “Submit” button.

**Then:**

Jenefer successfully authenticates to the system with the features: “Add Item”, “Add Supplier”, “Add Cashier Sale”, “Update Inventory: Items & Suppliers”, “Generate Inventory List: Items, Suppliers & Sales” are enabled.

**Test Case for Login System (Cashier)**

**Given:**

Cashier “Robert” wants to log in to the system with username “robert” and password “1234”.

**When:**

Robert inputs his username “robert” and password “1234” to the textbox, and clicks the “Submit” button.

**Then:**

Franky successfully authenticates to the system with the features: “Add Cashier Sale”, “Generate Inventory List: Items, Suppliers & Sales” enabled. And the features: “Add Item”, “Add Supplier”, “Update Inventory: Items & Suppliers” disabled.

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**Test Case for Login System (Attendant)**

**Given:**

Attendant “Franky” wants to log in to the system with username “franky03” and password “frankylovesyou”.

**When:**

Franky inputs his username “franky03” and password “frankylovesyou” to the textbox, and clicks the “Submit” button.

**Then:**

Franky successfully authenticates to the system with the features: “Generate Inventory List: Items, Suppliers & Sales” enabled. And the features: “Add Item”, “Add Supplier”, “Add Cashier Sale”, “Update Inventory: Items & Suppliers” disabled.

**Use Case for Adding a Supplier**

* **Name** : Add Suppliers
* **Description**: To add a supplier and its information to the database.
* **Actor :** Supervisor/Manager
* **Pre-condition:** The Supervisor/Manager must be authenticated to the system.
* **Post-condition:** A supplier and its information is added to the database.

**Main Course:**

1. The user wants to add a new supplier and its information.
2. The user clicks the “File” item in the menu.
3. The user then clicks the “Add supplier” item in the submenu.
4. The user fills up the necessary information in the form.
5. The user clicks the “Submit” button.

**Alternative:**

**5a.)** If there is a power interruption, the new items are logged via logbook manually for the moment.

**6.)** The information of the supplier is added to the database.

**Test Case for Adding a Supplier**

**Given:**

**S**upervisor “Jenefer” wants to add a supplier with information containing: “Universal Brewery” as the “Company Name”, “Pala-o, Iligan City” as “Address”, “2238546” as the “Contact Number”, and “univ.brew@gmail.com” as “Email” information to the database.

**When:**

“Jenefer” clicks the “File” item in the menu, then the “Add supplier” item in the submenu. “Jenefer” fills up the information as “Universal Brewery” as the “Company Name”, “Pala-o, Iligan City” as “Address”, “2238546” as the “Contact Number”, and “univ.brew@gmail.com” as “Email” information, then clicks the “Submit” button.

**Then:**

The system will add a new row in the list of suppliers and the information which contains, “Universal Brewery” as the “Company Name”, “Pala-o, Iligan City” as “Address”, “2238546” as the “Contact Number”, and “univ.brew@gmail.com” as “Email” information, will be added to the database.

**Use Case for Generating a List of Suppliers**

* **Name** : Generate list of suppliers
* **Description**: To generate a list of suppliers
* **Actor :** Employees
* **Pre-condition:** The employees must be authenticated to the system. The suppliers’ database must not be empty.
* **Post-condition:** A list of suppliers and their data will be shown to the user.

**Main Course:**

**1.)** The user clicks the “View” item in the list of menus.

**2.)** The user clicks the “Generate Inventory List” item in the dropdown menu.

**3.)** The user then clicks the “Suppliers” item.  
**4.)** A list of suppliers and their respective data is printed to the screen.

**Test Case for Generating a List of Suppliers**

**Given:**

Manager “Frederico” wants to check the list of current suppliers.

**When:**

“Frederico” clicks the “View” item in the list of menus, then the “Generate Inventory List”, then the “Suppliers” item menu.

**Then:**

The system prints a list of suppliers and their information to the screen.

**Use Case for Updating Supplier Information**

* **Name** – Updating Supplier Information.
* **Description** – Updates the supplier’s information.
* **Actor** – Supervisor/Manager.
* **Pre – conditions** –The Supervisor/Manager successfully authenticates to the system.
* **Post – conditions** – The system updates the item and its information in the inventory.

**Main Course:**

1. The user wants to update a specific supplier’s information in the inventory.
2. The user clicks the “Edit” item in the list of menus.
3. The user clicks “Update Inventory” in the submenu.
4. The user then clicks the “Supplier Information” item menu.
5. The user inputs a search key to the textbox field.
6. The user clicks the “Search” button.
7. The system generates a matching data based on the search key.

**Exception:**

**6a.)** If the search key does not match for any of the list of supplier names in the inventory. Repeat step 5 or Use case exits.

**Alternative:**

**6b.)** If the supplier has multiple descriptions, user may change the supplier description using the drop down text provided for each description of that supplier.

1. The user can update the information of the supplier.
2. The user clicks the “Update” button
3. The user is prompted a confirmation dialog before updating.
4. The user clicks “Ok” button.

**Alternative:**

**11a.)** If the user clicks “Cancel” button. Repeat Step 8.

1. The updated information updates the database.

**Test Case for Updating Suppliers**

**Given**:

Supervisor “Jenefer” wants to update the supplier information of “Universal Brewery” by using a search key “univ” and updating the contact number of “2238456” and change it to “09586314646”.

**When:**

Jenefer clicks “Edit” item in the list of menus, then clicks “Update Inventory”, then clicks “Supplier Information”, then inputs the search key “univ” in the textbox then clicks the “Search” button and changes the value of the contact number to “09586314646” then clicks the “Update” button and clicks the “Ok” button.

**Then:**

The system updates the supplier information with Supplier Name: “Universal Brewery” with contact number from “2238456” to “09586314646” in the inventory database.

**Use Case for Adding Inventory Items**

* **Name** : Adding Inventory Items
* **Description**: Adding new items to the inventory
* **Actor :** Supervisor/Manager
* **Pre-condition:** The supervisor/manager must be authenticated to the system. There must be an existing supplier in the database for the said item.
* **Post-condition:** The said item and its relevant information is added to the inventory database.

**Main Course:**

**1.)** The user wants to add a new item to the database.

**Alternatives:**

**1b.)** If there is a power interruption, the new items are logged via logbook manually for the moment.

**2.)** The user clicks the “File” item in the list of menus.

**3.)** The user then clicks the “Add item” under the “File” menu.

**4.)** The user fills up the information of the item.

**Exception:**

**4a.)** If the item already exists, the user inputs a different description for that item.

**5.)** The system adds the said item with its relevant information to the database.

**Test Case for Adding Inventory Items**

**Given:**

Supervisor “Jenefer” wants to add a new item with Item name: “The Bar Citrus Tequila”, an Item Description: “1 Liter”, an Item Price: “350.00Php”, an initial Item Quantity of “30”, and the Supplier: “Universal Brewery” to the database.

**When:**

“Jenefer” fills up a form item with Item name: “The Bar Citrus Tequila”, an Item Description: “1 Liter”, an Item Price: “350.00Php”, an initial Item Quantity of “30”, the Supplier: “Universal Brewery” and clicks the button “Submit”.

**Then:**

The system adds the item with Item name: “The Bar Citrus Tequila”, an Item Description: “1 Liter”, an Item Price: “350.00Php”, an initial Item Quantity of “30”, the Supplier: “Universal Brewery” to the inventory database.

**Use Case for Generating a List of Items**

* **Name** : Generate list of items
* **Description**: To generate a list of items in the inventory
* **Actor :** Supervisor/Manager/Attendant
* **Pre-condition:** The employees must be authenticated to the system. The items’ database must not be empty.
* **Post-condition:** A list of items and their data will be shown to the user.

**Main Course:**

**1.)** The user clicks the “View” item in the list of menus.

**2.)** The user clicks the “Generate Inventory List” item in the dropdown menu.

**3.)** The user then clicks the “Items” item.  
**4.)** A list of items and their respective data is printed to the screen.

**Test Case for Generating a List of Items**

**Given:**

Manager “Frederico” wants to check the list of current items.

**When:**

“Frederico” clicks the “View” item in the list of menus, then the “Generate Inventory List”, then the “Items” item menu.

**Then:**

The system prints a list of items and their information to the screen.

**Use Case for Updating Item Information**

* **Name** – Updating Item Information.
* **Description** – Updates the item’s information.
* **Actor** – Supervisor/Manager.
* **Pre – conditions** – The Supervisor/Manager successfully authenticates to the system.
* **Post – conditions** – The system updates the item and its information in the inventory.

1. The user wants to update a specific item in the inventory.
2. The user clicks the “Edit” item in the list of menus.
3. The user clicks “Update Inventory” in the submenu.
4. The user then clicks the “Item Information” item.
5. The user inputs a search key to the textbox field.
6. The user clicks the “Search” button
7. The system provides a matching data based on the search key.

**Exception:**

**7a.)** If the keyword does not match for any of the list of items in the inventory. Repeat step 5 or Use case exits.

**Alternative:**

**6b.)** If the item has multiple descriptions, the user may change the item description using the drop down text provided for each description of that said item.

1. The user can update the information of the item.
2. The user clicks the “Update” button.
3. The user is prompted a confirmation dialog before updating.
4. The user clicks “Ok” button.

**Alternative:**

**11a.)** If the user clicks “Cancel” button. Repeat Step 8.

1. The updated information updates the database.

**Test Case for Updating Inventory Items**

**Given**:

Supervisor “Jenefer” wants to update the item information of Item Name: “Red Horse Beer” using the search key “red horse” and updating its quantity of “60” to “120”.

**When:**

Jenefer clicks “Edit” item in the list of menus, then clicks “Update Inventory”, then clicks “Item Information”, then inputs the search key “red horse”, clicks the “Search” button then changes the value of the quantity to “120” then clicks the “Update” button and finally clicks the “Ok” button in the confirmation dialog.

**Then:**

The system updates the item with Item Name: “Red Horse Beer” with quantity from “60” to “120” in the inventory database.

**Use Case for Searching Inventory**

* **Name** : Inventory Searching
* **Description**: To check if the item in the inventory is available.
* **Actor :** Employees
* **Pre-condition:** The employee must be logged in to the system. The inventory database must not be empty.
* **Post-condition:** The said item and its relevant information is displayed on the screen.

**Main Course:**

1. The user wants to search for an item using a keyword.
2. The user clicks the “View” item in the list of menus.
3. The user then clicks the “Generate Inventory List” item in the submenu.
4. The user clicks the “Items” item under the “Generate Inventory List”.
5. The user inputs the keyword for the “Item Name” in the textbox field.
6. The user clicks the “Search Items” button.
7. The searched item and its information is displayed on the screen.

**Exception:**

**7a.)** If the user searches for a different type of query aside from a keyword of the said item from its “Item Name”, then the information of the desired item will not be displayed.

**7b.)** The item is not found in the inventory. There will be no display of information of that item.

**Test Case for Searching Inventory**

**Given:**

Manager “Frederico” wants to check the information of a specific item with keyword “Red Horse”.

**When:**

Frederico clicks the “View” item in the menu, “Generate Inventory List” item in the submenu, then “Items” item. “Frederico” inputs keyword “Red Horse” in the textbox field and clicks “Search items”.

**Then:**

The system displays the relevant information of the “Red horse” keyword.

**Use Case for Cashier Add Sales**

* **Name** – Cashier Add Sales
* **Description** – Allows the cashier to add sales.
* **Actor** – Manager/Supervisor/Cashier
* **Pre – conditions** – The cashier successfully authenticated into the system.
* **Post – conditions** – The cashier logs the sales.

**Main Course:**

**1.)** The user wants to search for the item in the inventory with the description.

**Alternatives:**

**1a.)** If the system is down or there is power interruption, the sales are logged via a log book manually.

**2.)** The user clicks the “File” item in the menu bar.

**3.)** The user clicks the “Add Cashier Sale” item under the “File” menu.

**4.)** The user inputs the item description for the purchased item.

**5.)** The system gives auto suggestions for the item descriptions; the user then may select the appropriate item description.

**6.)** The user inputs the quantity of item equal to the quantity of the purchased item.

**Exception:**

**6a.)** If the purchased quantity is greater than the current stock of the item in the inventory, The system prompts an error. Repeat Step 6.

**6b.)** If the user inputs a non-number, an error message is prompted to the user. Repeat Step 6.

**7.)** The user clicks the “Submit” button.

**8.)** The system updates the quantity of the item in the inventory and logs the sales.

**Test Case for Cashier Add Sales**

**Given**:

A customer buys “Tequila 750ml” with quantity of “3” and price of “300Php”at “9:00PM 12/21/2012” and the current quantity of that item in the inventory is “10”.

**When:**

Cashier with username “robert” clicks the “File” item in the menu bar, then clicks the “Add Cashier Sale” item in the submenu. The cashier inputs the keyword for the item description and selects the auto suggested item description of “Tequila 750ml” to the dropdown text field and inputs quantity of “3”, then clicks the “Submit” button.

**Then:**

The system updates the quantity of the item with Item Description: “Tequila 750ml” from “10” to “7”, and adds a new row in the list of sales containing the Item: “Tequila”, Item Description: “Tequila 750ml”, Item Price: “300”, Quantity: “3”, Total Price: “900”, the logged employee with username: “robert”, and the date and time of purchase: “12/21/2012 9:00PM”.

**Use Case for Generating a List of Sales**

* **Name** : Generate list of items
* **Description**: To generate a list of sales
* **Actor :** Supervisor/Manager/Cashier
* **Pre-condition:** The employees must be authenticated to the system. The sales database must not be empty.
* **Post-condition:** A list of sales will be shown to the user.

**Main Course:**

**1.)** The user clicks the “View” item in the list of menus.

**2.)** The user clicks the “Generate Inventory List” item in the dropdown menu.

**3.)** The user then clicks the “Sales” item.

**4.)** A list of sales and their information is printed to the screen.

**Test Case for Generating a List of Sales**

**Given:**

Cashier “Robert” wants to check the list of current sales.

**When:**

Robert clicks the “File” item in the list of menus, then the “Generate Inventory List”, then clicks the “Sales” item.

**Then:**

The system prints a list of sales and their information to the screen.

**Use Case for Exit**

* **Name** : Exit
* **Description**: The application exits
* **Actor :** Employee
* **Pre-condition:** The employees must be authenticated to the system.
* **Post-condition:** Closes the application software.

**Main Course:**

1. The user clicks “File” in the menu.
2. The user clicks Exit.

**Alternative:**

**2a.)** The user can press “Alt” + “Q” at the same time to exit.

1. The user is prompted a confirmation to exit.
2. The user clicks “Ok” button.

**Exception:**

**4a.)** If the user clicks the “Cancel” button, use case exits.

1. The application software exits.

**Test Case for Exit**

**Given:**

Manager “Frederico” wants to close the application.

**When:**

Frederico clicks “File”, then “Exit”, and clicks “Ok” button.

**Then:**

The application exits.