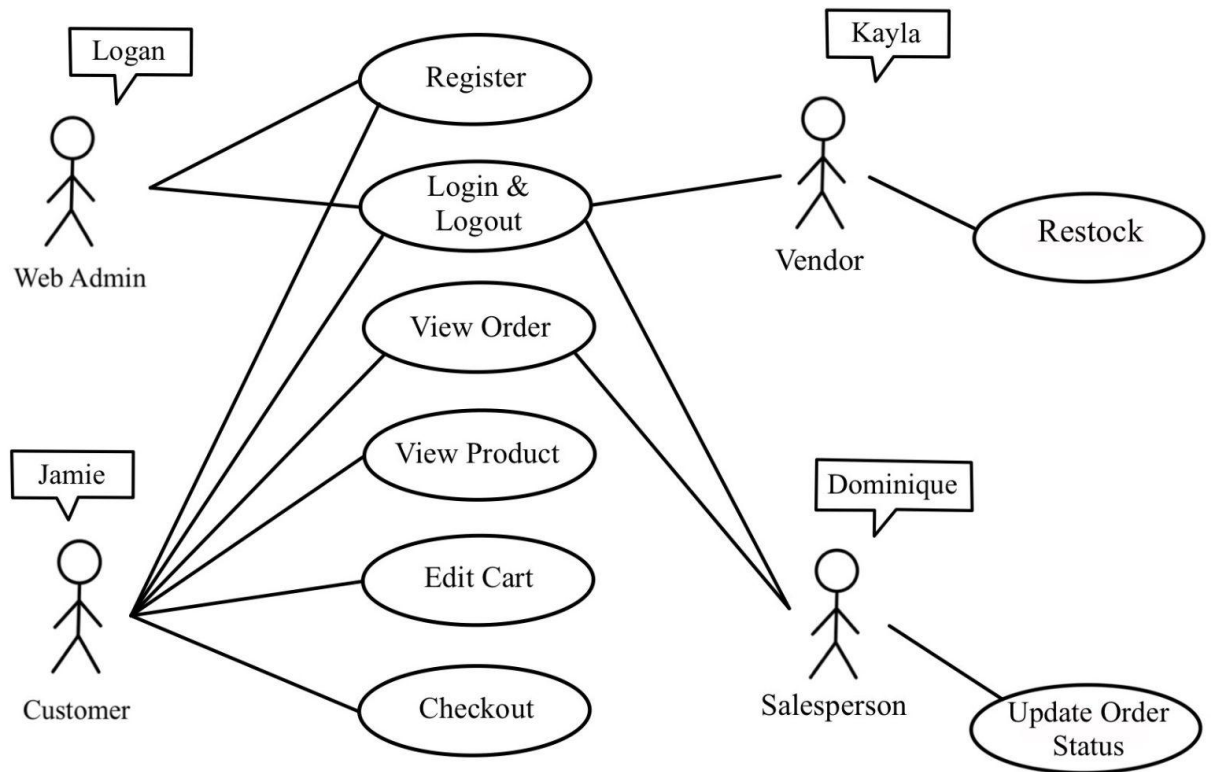# Yankee Candle

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Introduction:

        The purpose of this project is to build a website that sells scented candles. The name of the company will be "Yankee Candles", with the website name being "yankeecandles.com". To create this, we will use the following programming languages, Java, HTML/CSS, and MySQL. Java will be utilized for the backend of the website in hand with MySql. MySql will primarily be used to handle user login information, such as emails and passwords, the different types of candles, pricing, and user payment info and shipping address. HTML and CSS will be used for the frontend of the project, i.e the User Interface.

Use Case Diagram:

Brief Description of Uses cases:
1. Customer (Jamie)
   a. *Register*
      The initial page of the website will allow the user to either register or login.
      Customers who do not already have an account can register themselves by filling
      out a form.

   b. *Login & Logout*
      The customer will be able to login to the system by providing credentials. The
      registration and login page allows users with authentication to enter the system.
      The customer will also be able to log out of the system once they have completed
      their transactions.

   c. *View Product*
      The customer will have full access to view products of different types and sizes
      including images and listings.

   d. *Edit Cart*
      The customer will have access to the shopping cart which will contain all items
      added to the cart. Within the shopping cart, the customer will have the ability to
      change the quantity of products by adding or removing items.

   e. *Checkout*
      The customer will have the ability to finalize the purchase by entering payment
      credentials and shipping information.

   f. *View Order*
      The customer should have access to viewing their summarized order after the
      checkout process has been completed.

2. Web Admin (Logan)
   a. *Register*
      The web admin will have access to registration information provided by the
      customer which will allow the admin full permission to create a user profile for
      the customer.

   b. *Login & Logout*
      The web admin will be able to authenticate the customers login credentials and
      authorize entry to the system as well as log the customer out.

3. Vendor (Kayla)
   a. *Login & Logout*
      The vendor will have access to login to the system given their credentials. The vendor will be able to exit the system once they have completed their tasks by logging out.

   b. *Restock*
      The vendor will have the ability to restock their products on the site.

4. Salesperson (Dominique)
   a. *Login & Logout*
      The salesperson should be able to login to the system by providing their credentials and will be able to exit the system by logging out.

   b. *View Order*
      The salesperson will have full permission to view the customer's order to see the products purchased and shipping address as well as the ability to print the invoice for the order.

   c. *Update Order Status*
      The salesperson will be able to update the status of the order to processing, shipped, or completed.

Scenarios:

1. **Customer**
   a. **Register**
      i. **Initial assumption:** Users are interested in saving payment information, shipping / billing information, as well looking back on previous order history
      ii. **Normal:** Users will create a unique username and password, as well as entering their first and last name, email address, phone number, birth date.
      iii. **What can go wrong?** Users could enter wrong information when creating their account.
      iv. **Other activities:** Users will be able to access this account by logging in.
      v. **System state on completion:** The user will have the ability to create an account, and that account will be saved in the database.
   b. **Login**
      i. **Initial assumption:** The customer has a registered account.
      ii. **Normal:** User will enter username and password to log into their account.
      iii. **What can go wrong?:** Username could forget their username or password.
      iv. **Other activities:** Users will be able to reset their accounts username and password. Users can also change / delete their payment information and shipping / billing information.
      v. **System state on completion:** The user will have the ability to use their account information to login. If they forget their password or username, they can reset it. Once logged in they will be able to buy products.
   c. **View product**
      i. **Initial assumption:** The user wanted to get detailed information on a certain product.
      ii. **Normal:** The user will be able to view the name, size, price and scent of the selected candle.
      iii. **What can go wrong?** Description of product could not be accurate or meet users' expectations.
      iv. **Other activities:** Ability to add the item to the cart.
      v. **System state on completion:** User will see a page with the name of the candles and have the ability to click on the product to get details on the scent of the candle, the ability to see the different sizes available in that candle.
   d. **Edit Product**
      i. **Initial assumption:** The user wants to add more or remove the candle(s) within their cart.

      ii. **Normal:** The user can edit the quantity of a particular item or remove it completely.

      iii. **What can go wrong?** There could be a misclick and there are more or fewer items within their cart than desired.

      iv. **Other activities:** They have the ability to click to go back to the product page to view information on the item.

      v. **System state on completion:** Users will be able to edit a quantity of items with their cart.

    e. **View Cart**

      i. **Initial assumption:** User has items within their cart.

      ii. **Normal:** User will be able to see what types of items were added to cart, the quantity of each item, and the total price.

      iii. **What can go wrong?** Too many of a particular item.

      iv. **Other activities:** Edit the quantity of a particular candle as well as remove specific candles.

      v. **System state on completion:** Have the ability to look at what type of candle they have added to their cart and make adjustments depending on their want(s) / need(s).

1. **Web Admin**

    a. **Register**

      i. **Initial assumption:** There's a new Web Admin being hired and they need a specialized account so they can maintain the web site.

      ii. **Normal:** Will use their personal credentials to create their admin account, as well as create an unique username and password.

      iii. **What can go wrong?:** The wrong credentials could be used when registering the person, also the username and password for the account could be forgotten.

      iv. **Other activities:** Login with this account.

      v. **System state on completion:** Their administrator account will be within the database, and will be able to login to perform website maintenance and / or updates.

    b. **Login**

      i. **Initial assumption:** Admin wants to login for maintaining purposes.

      ii. **Normal:** Will use username and password to login into their account.

      iii. **What can go wrong?** May forget login credentials.

      iv. **Other activities:** Ability to log out, and ability reset password.

      v. **System state on completion:** Ability to log in and log out.

2. **Vendor**

    a. **Login**

      i.   **Initial assumption:** There's an account already registered.

      ii.   **Normal:** Will use username and password to login into their account.

      iii. **What can go wrong?** May have forgotten account credentials.

      iv. **Other activities:** Logout of the account.

      v.   **System state on completion:** Will have the ability to log into their account, as well as log out.

b. Restock

      i.   **Initial assumption:** That particular item is an item page.

      ii.   **Normal:** Will log in from their end and update the quantity numbers of a particular item.

      iii. **What can go wrong?** The item may not be sold anymore.

      iv. **Other activities:** Ability to discontinue and remove a product.

      v.   **System state on completion:** Have control of what products are being displayed, as well as update their quantity numbers within the database.

3. Sales Person

a. Login

      i.   **Initial assumption:** There's an account already registered.

      ii.   **Normal:** Will use username and password to login into their account.

      iii. **What can go wrong?** May have forgotten account credentials.

      iv. **Other activities:** Logout of the account.

      v.   **System state on completion:** Will have the ability to log into their account, as well as log out.

b. View Order

      i.   **Initial assumption:** The customer has placed an order.

      ii.   **Normal:**

      iii. **What can go wrong?** Customer wants to cancel the order.

      iv. **Other activities:** The ability to print invoice

      v.   **System state on completion:** Sales member will be able to look into current and previous orders placed by customers

c. Update Order Status

      i.   **Initial assumption:** Customer has placed order.

      ii.   **Normal:** Will be able to see the order and push updates to customers directly in regards to that order.

      iii. **What can go wrong?** Maybe it will be delayed.

      iv. **Other activities:** The ability to print invoice

      v.   **System state on completion:** The sales member will be able to keep the customer updated on the current location of order, as well as if any issues arise.

User and System Requirements:

User Requirements

1. The Yankee Candles website allows all users to login/register, they can also log out.
2. All users can view candle products of different sizes (Small, Medium, Large).
3. Customers can buy candle products.
4. Customers will have a cart holding candles wanting to be purchased.
5. Customers can also checkout.
6. WebAdmins can add or remove accounts, and verify them.
7. Vendors will be able to restock their products.
8. Each user will have user interfaces to interact with.
9. Salespersons will be able to issue refunds and process orders.

System Requirements

1.1 The login and signup page will utilize a database (MySql), consisting of emails and passwords.
1.2 If users i.e WebAdmins, Customers, Vendors, or Salespersons, do not have an account with the website they will have the opportunity to sign up and make an account with the website.
1.3 Users, WebAdmins, and Vendors will be able to logout from the website.

2.1 All users signed in or guests can view candle products on the website
2.2 There will be different size candles, that will factor in the price of the candle, when buying.

3.1 In order to buy candles, a user must be logged in and signed up as a customer.
3.2 A database will be used to hold data on candle size, price, and type.

4.1 Customers will be able to view their cart and add more candles to it.

5.1 When done with their order, customers can checkout and begin putting in their payment info and shipping address.
5.2 Payment information will be saved, along with shipping address in the database.

6.1 WebAdmins can add or remove users.
6.2 WebAdmins will also be able to verify accounts.

7.1 Vendors cannot buy other vendors products or products in general, they will only be able to login, logout, and restock their products.

8.1 Customers, vendors, salespersons, and WebAdmins will have different UI's depending on their role. Giving the ability to carry out their roles as stated above.

9.1 Salespersons will have the opportunity to print orders, along with track shipments. They'll also be able to update the status of the orders. They will not be able to restock or buy products.

Non-functional Requirements

Product requirement:
The candles will be sold on the webpage. In addition, the webpage will allow users to purchase products. The website will be available 7 days a week, 24/7 , except for scheduled maintenance windows.

Organizational requirements:
The candles will be sorted by type, size, and price. Users must be logged in to buy candles. Guests (not signed in) can view candles.

External Requirements:
The website will allow users to create an account and log in to purchase candles.