# NebulaNiche

NebulaNiche is a website where vendors can post products to be sold to customers.

### Purpose:

The purpose of this SRS (Software Requirement Specification) document is to outline the functionality of this Ecommerce website. It will specify the details of each functionality.

### Functionality:

1. Registration:
   * Users can register by providing their name, email address, username, and password.
   * There will be no duplicate email addresses or usernames in the database, meaning a user cannot create an account using an email address or username that has already been used to create one.
   * During registration, users can specify whether they are a user (customer) or a vendor.
   * Admin accounts will be hard-coded so that no one can simply create an admin account.
   * Passwords will be hashed in the database upon registration.
2. Login:
   * Users can login using their email address or username and password to an account that exists in the database.
3. Product Management:
   * Adding Products:
     + Vendors can add new products. Products will have a title, description, inventory count, and price. If applicable, they can add images and warranties. Warranties include coverage days (limited and unlimited) and coverage information.
     + Admins can also add new products for any vendor.
   * Editing and Deleting Products:
     + Vendors can edit and delete products they own. Admins can edit and delete products of any vendor.
     + Upon editing, vendors and admins can edit the product title, description, inventory count, price, images, warranties, view active discounts, and add upcoming discounts.
     + Upon editing, images, warranties, and upcoming discounts can be deleted.
     + Images must contain image links. Warranties must have coverage info. Not specifying the coverage days means the warranty is a life-time coverage.
     + Upcoming discounts must start at least one hour from the time the product will be updated and must end at least one hour from the start time. The discount value must be between 0.01 (1%) and 1 (100%).
     + Once a product is edited, the information will be updated in all carts.
     + If a product is deleted, it will be removed from all carts.
4. Products Page:
   * Vendor and admins have a button to create products.
   * Each product section features the title, vendor’s username, original price, discount value, and the discounted price.
   * Clicking on a product brings the user to a product info page.
   * Customers can view all products. Each product section features a button to allow them to easily add the product to their cart.
   * Customers and admins can search for products based on a product title or description.
   * If there is no available inventory of a product, customers cannot add the product to their cart.
   * Vendors can view all products they own. Admins can view all products.
   * Each product section features an edit button and a delete button.
5. Product Info Page:
   * Users can view the product images if available, title, vendor’s username, original price, discount, its end time, and the discounted price if available, inventory count, description, warranty information if available.
   * If there are multiple discounts active, the highest discount value will be applied.
   * Vendors and admins can view expired, active, and upcoming discounts which includes the discount amount, the start date and time, and the end date and time. A blank end date and time means the discount does not end.
   * For customers, an “Add to Cart” button is included for convenience.
   * If there is no available inventory of a product, customers cannot add the product to their cart.
   * For vendors and admins, “Edit” and “Delete” buttons are included for convenience.
   * Review Section:
     + Users can write a review. Reviews feature a rating and a description.
     + Review rating must be between 1 and 5.
     + Users can include images.
     + Users can view reviews written by other users.
     + When viewing reviews, users can see the review ID, the user ID of the writer, the rating, the date and time of when it was written, and the description.
6. Cart Page:
   * If a customer does not have a cart, the page will display “Empty cart”.
   * Cart items will be stored so they will remain in the cart when logging in another time.
   * Cart items include the first image of the product if available, the title, vendor’s username, original price, and the discount amount and discounted price if available.
   * Customers can delete items from the cart and update the quantity of each item they wish to purchase.
   * Customers cannot purchase more than the inventory count of each product.
   * Prior to checking out, customers must input their address to which the order is to be shipped and their payment method.
7. Orders Page:
   * If there are no orders, the page will display “No orders”.
   * Customers can view all orders they placed.
   * Vendors and admins can view all orders placed by customers.
   * Each order features the order ID, the date and time it was placed, the order total, and the status.
   * Status can be pending, confirmed, canceled, shipped, and delivered.
   * Clicking on an order will bring the user to the order details page.
8. Order Details Page:
   * Users can view the order date and time, total price, user ID of who placed the order, the username, first and last name, and email address of the user.
   * Users can view the delivery address and payment method and the order status.
   * Users can view each item in the order.
   * Each item includes the product title, vendor username, warranty if applicable, quantity, unit price, discount amount if applicable, and total price (unit price \* quantity).
   * Vendors and admins can change the status of the order.
   * Customers can issue complaints by clicking on the “Issue Complaint” button to navigate to a page to issue the complaint.
9. Complaints Page:
   * Each complaint has a complaint id, user id of the issuer, the order id, title, description, and demand, and status of the complaint.
   * Vendors and admins can set the status of the complaint. Status are either pending, reviewed, accepted, or rejected.

### Tools:

* HTML
* CSS
* JavaScript
* Python (Flask)
* SQL
* MySQL
* Git
* GitHub
* Visual Studio Code
* GitHub Desktop

### Notes:

To test, create a database named cset180final. Change the information as needed for the following lines below “# Connect to database”.

Accounts:

Customers:

Username: customer

Password: c

Lawrencetheflorence - l

Vendor:

food\_schmood – f

Admin:

rcampbell - r