# Functional Requirements

User Registration and Authentication

* The web page should allow users to create an account by providing necessary information.
* The web page should provide a secure login mechanism with proper authentication and authorization.
* Users should be able to reset their passwords if forgotten.

Product Catalog

* The web page should display products categorized by various categories and brands.
* Users should be able to search for products using keywords.
* Each product should have a detailed page displaying images, descriptions, prices, and availability.
* Users should be able to add products to their shopping cart.

Shopping Cart and Checkout

* Users should be able to view and manage the items in their shopping cart.
* Users should be able to update quantities, remove items, or save items for later.
* The web page should calculate and display the total price, including applicable taxes and shipping costs.
* Users should be able to enter shipping and billing information securely.
* The web page should provide multiple payment options and process payments securely.

Order Processing and Tracking

* Users should receive order confirmation emails with detailed information.
* Users should be able to track the status of their orders.
* Administrators should be able to manage and update the status of customer orders.

Administrator Functions

* Administrators should be able to manage product categories and brands.
* Administrators should be able to manage product inventory and update stock quantities.
* Administrators should be able to process and manage customer orders.
* Administrators should be able to manage user accounts, including registration, login, and authentication.