# **Main Features of OnlineStore Project**

* Shared layout on most pages with textbox in which user enters what they are searching for
* Validation on all field entry pages
* Cookies
  + Allows registered and anonymous users to view cart items several days after an items is added
* Error Logging
  + Used StreamWriter to write to text file
  + Details of errors are written to a text file
    - Exception type
    - File in project in which exception occurred
    - Line at which exception occurred in that file
    - Timestamp
* Account features
  + Displays user’s first name at top right of page next to cart icon if user is logged in
    - Display “Sign In” link if user is not logged in
  + Registration of new users
  + Enhanced password security
    - Password-Based Key Derivation Function 2 (PBKDF2)
      * Adds random value (salt) with hashed password and number of iterations to be hashed along with password entered by user
        + The higher the iterations, the harder it is for a hacker to hash the password
* Shopping Cart features
  + Add items to cart
  + Remove items from cart
  + Change quantity of a cart item with a dropdown
  + Migration of cart items when user logs in
    - Cart items added as anonymous user will be added to cart of user logging in
      * Increases quantity of cart items already existing in cart of user logging in
      * Creates new cart items for items not existing in user’s cart
        + New cart items are assigned to user logging in
  + Cart icon at top right of page that displays number of items in cart
* Checkout features
  + Responsive web design
  + User must be logged in to checkout
    - If user does not have an account, user must register
  + User enters order information
  + Address is validated based on address validation api (SmartyStreets)
  + Change quantity of a item with a dropdown
  + User selects shipping option
    - Updates of price information occur when user selects a shipping option
  + Checkout panel with checkout button remain on page even as user scroll to bottom of page
    - Allows user to click checkout button whenever they want
  + Show items and quantities of items being ordered
* Order Confirmation features
  + Display order information
    - First name
    - Last name
    - Shipping address
    - Payment method
    - Total
      * Subtotal
      * Tax (if available)
      * Shipping price (if available)
    - Tracking Number
    - Expected delivery date of order