

**Software Construction & Development Lab**

**Semester Project Proposal**

**Version-2**

**Urban Stitch**

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Urban Stitch

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**Introduction:**

Urban Stitch is your go-to online store for stylish women's clothing. We've got the latest trends and timeless classics, all designed to help you look and feel great effortlessly. Discover fashion that suits your unique style, shop conveniently, and get ready to conquer the urban fashion scene.

Website that will enable users to browse, search, add products to their cart, provide shipping details, and make payments online. This website will cater to the needs of online shoppers, providing a seamless and secure shopping experience. We will utilize HTML, CSS, and JavaScript for development and Visual Studio as the primary development environment.

**Problems:**

* Slow Website Loading Times
* Complicated Navigation
* No live chat option.

**Project Objectives:**

The primary objective of this Shopping Website with the following key features will be:

* **User Registration and Authentication:**

Allow users to sign up and log in securely to access their profiles, order history, and shopping cart.

* **Search Products:**

This feature will allow the user to search the products from the store.

* **Shopping Cart:**

Enable users to add products to their shopping cart, view cart contents, update quantities, and remove items.

* **Checkout Process:**

Guide users through a seamless checkout process that includes providing shipping details, choosing shipping methods, and making payments.

* **User Profiles:**

Allow users to manage their profiles, including adding and editing shipping addresses and payment methods.

**Solutions:**

* Implement caching mechanisms, optimize images and code, use Content Delivery Networks (CDNs), and choose a reliable hosting provider to ensure fast loading times.
* Utilize responsive design techniques to ensure that the website adapts seamlessly to various screen sizes and devices, improving the mobile user experience.
* Design an intuitive navigation menu with clear categories, filters, and search functionality to help users easily find products.
* Live chat option.

**Technologies and Tools:**

**Language:**

- HTML, CSS, and JavaScript, My Sql, Php

**Version Control:**

- Git for code management.

**Development Tool:**

- Visual Studio

**Design Patterns:**

To achieve a robust and scalable website, we will implement the following design patterns:

* **Singleton Pattern:** We will use the Singleton pattern for database connections and other resource management to ensure efficiency and avoid resource conflicts.
* **Factory Pattern:** Implementing the Factory pattern for product creation will enable easy extensibility for future product additions.
* **Observer Pattern:** To manage events and user interactions efficiently, we will use the Observer pattern to decouple event producers from consumers.

Conclusion:

Our goal is to create a user-friendly online shopping website using HTML, CSS, and JavaScript in Visual Studio. We will use My SQL and php for the database connectivity. This website will let users easily sign up, search for products, add items to their cart, and complete their purchases securely. We'll also provide options for users to manage their profiles, including shipping addresses and payment methods. Our aim is to offer a hassle-free and enjoyable shopping experience for all our customers, making online shopping simple and secure.