362 Project Documentation
Group 11
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Link to Github: https://github.com/frggycc/Website_Project_Group11
Link to video presentation: https://youtu.be/wTQQ_IHsus0

I.   **Overview**
   A. **Product vision**
      1. Our team has developed a fashion e-commerce website, inspired by modern retail platforms like NIKE, emphasizing athleticism, comfort and a modern style. The goal was to provide a clean, intuitive, responsive shopping experience for customers. Our clients will be able to browse, search, and purchase items from our store by adding them to cart. Unlike our competitors, we aim to provide innovative clothes that reflect the lifestyle and needs of active individuals. Performance-driven fashion that supports athletic excellence and reflects everyday confidence

II. **Running Our Application**
   A. **How the Web App Runs**
      1. This web application is built using Flask and SQlite, simulating a fully functional e-commerce platform with features such as item browsing, search, shopping cart management, and an admin dashboard for CRUD operations on products.
   B. **Running the app**
      1. To run the app:
         a) Ensure python and Flask are installed on your machine:
            (1) Pip install flask
         b) Start the application using:
            (1) Python app.py
         c) Access the site at:
            (1) http://127.0.0.1:5000/
   C. **How it works - (Application flow)**
      1. Home page - /
         a) Displays features items
         b) These are fetched from the database
      2. Category navigation
         a) /women/clothing/ or /men/shoes paths are used to fetch and display products based on section and sub sections
      3. Add to cart - /add_to_cart
         a) Triggered by a POST request when a user adds an item
         b) saves item ID and quantity in session['shopping_cart']
      4. Search bar - /search-bar
         a) Accepts the keyword and then performs queries across name, category, subcategory

D. Admin features
1. Admin login - /admin/login
   a) Simple login
2. Admin Panel - /admin
   a) Allows for adding, removing, and editing items
   b) Admin is able to
      (1) Add new products
      (2) Edit existing item details
3. Logout - /admin/logout
   a) Logs out the admin by removing the session variable

III. Requirements
A. Functional Requirements

ID	Identity	Description
FR_0	Homepage	Users will be able to access a homepage when opening a link to the website. It will be the access point to mulitple features.
FR_1	Searchbar	Users can search for products using keywords. Search returns results from product name, section, and subsection.
FR_2	Shopping Cart	Users can add items to their cart, modify quantities, and proceed to checkout.
FR_3	Admin Login Page	Users are able to login and create an account
FR_4	Product Catalog Management	Products can be added, updated, or deleted by an admin. Each product includes a price, description, and image.
FR_5	Checkout and Orders	Users can place orders. Orders are stored with user details.
FR_6	Men	Users will be able to search for a variety of men's products.
FR_7	Women	Users will be able to search for a variety of women's

		products.
FR_8	Product Page	Based on what category the user chooses, they will be able to scroll through a variety of products in that given category.
FR_9	Add To Cart	Users will be able to add a product to their shopping cart.
FR_10	Add Item	Admin can add item to the existing products on the website

B. Non-Functional Requirements

ID	Identity	Description
NFR_0	Loading Time & Performance	The pages on the website should be able to load in 2 seconds when the total number of simultaneous users is less than 6 thousand.
NFR_1	Scalability	The amount of items can increase in the database. Can support an increasing numbers of Users
NFR_2	Availability	Should always be available to access and maintain a 90% uptime, ensuring it is always accessible to users.
NFR_3	Security	Protect sensitive data, and be able to protect the database. Should keep user information safe
NFR_4	Region Accessibility	The website should be made available in US, UN, and Canadian regions to ensure a wide geographic accessibility.

C. Requirement Modeling

FR_4
Product Catalog Management

FR_10
Add Item (admin)

FR_5
Checkout

http://127.0.0.1:5000/admin

FR_3
Admin Login page

FR_3
Create Account

FR_2
Shopping Cart

is_admin()

http://127.0.0.1:5000/admin/login

Admin

Customer

http://127.0.0.1:5000

FR_0
Homepage

FR_1
Search Bar

FR_6
Men

Clothing
Shoes
Accessories

FR_7
Women

Clothing
Shoes
Accessories

FR_8
Product Page

FR_9
Add to cart