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STAFFORDSHIRE UNIVERSITY

BSc (Hons) in Computing

Level 5

INDIVIDUAL ASSIGNMENT

Module Code & Title:
COMP50016 – Sever Side Programning-2

Prepared By:

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Date of Submission: 07. 06. 2023

Instructor: Mr. Vipula Anandapiya

MARKING CRITERIA	%	MARKS OBTAINED
TOTAL (%)		

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Review Goal 11

The "Ample Clothing" system's quality assurance (QA) review procedure aims to: 11

- Functions properly given the specified requirements. 11
- Offers clients a user-friendly experience. 11
- Efficiently operates under standard load circumstances. 11
- Identifies areas that need improvement and fixes flaws. 11

Roles and Responsibilities 11

- QA Team - The QA Team oversees organizing, carrying out, and evaluating the review procedure. 11
- Development Team - Assists QA in fixing bugs and improving the system. 11
- Project Manager - The QA review is overseen and approved by the project manager. 11

Review Phases 11

- Test Planning - Establishing the goals, parameters, and resources for a test. 11
- Test Case Creation - The process of creating thorough test cases that address numerous elements. 11
- Test Execution - Running tests and documenting real outcomes. 11
- Defect Reporting - Reporting defects involve keeping track of any flaws or problems found during testing. 11
- Analysis- Assessing each case's test results. 11
- Recommendations - Outlining adjustments and upgrades considering findings. 11
- The QA review method has been examined and approved. 11

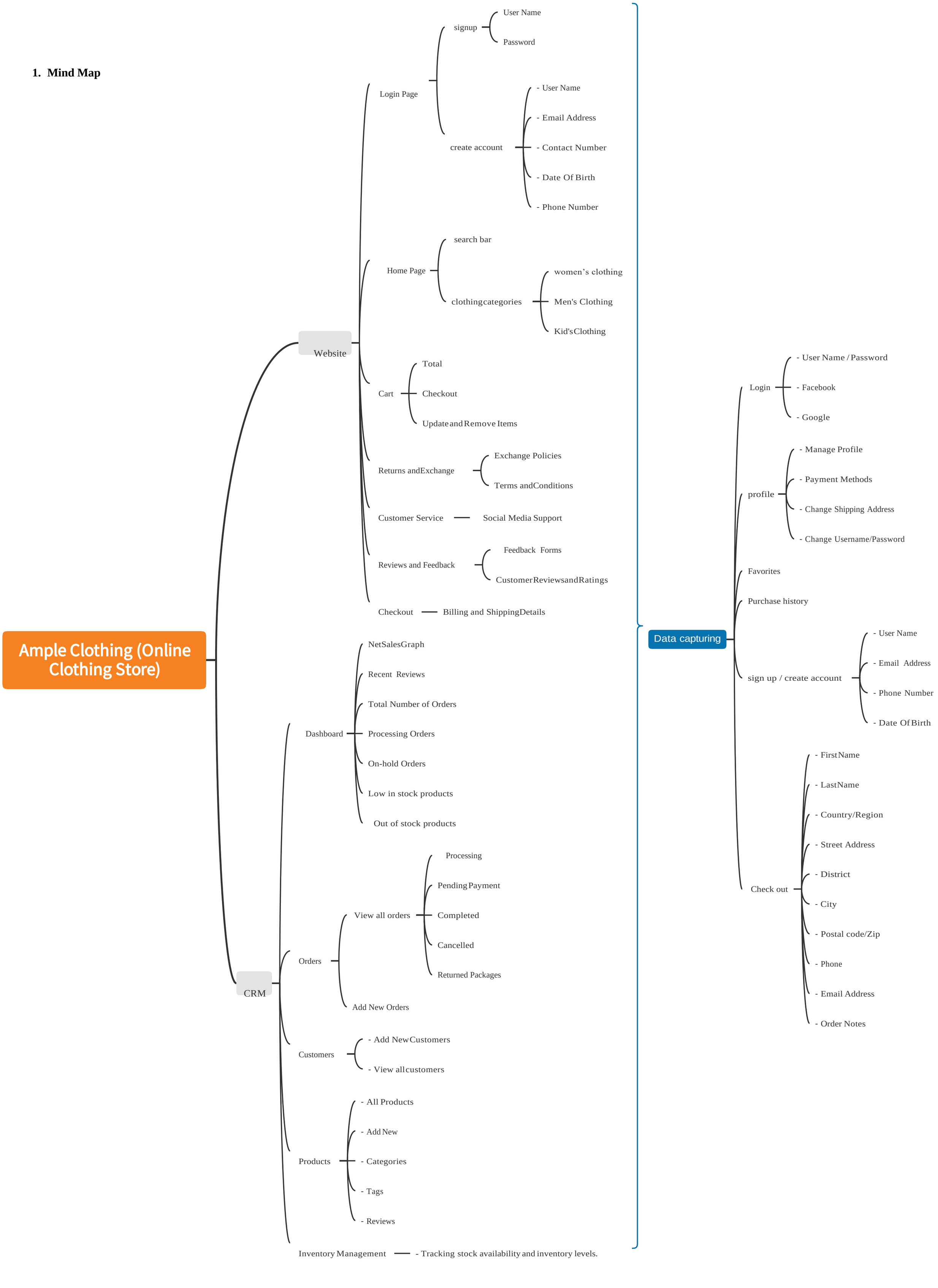
Review Criteria 11

The "Ample Clothing" system is assessed by the QA review based on functionality, usability, and performance standards. 12

5. Why the test cases were created, and a deep analysis. 12

6. The future upgrade plan to ensure the system is future-proofed 13

1. Mind Map


Ample Clothing (Online Clothing Store)
Website
Login Page
signup
User Name
Password
create account
- User Name
- Email Address
- Contact Number
- Date Of Birth
- Phone Number
Home Page
search bar
clothingcategories
women’s clothing
Men's Clothing
Kid'sClothing
Cart
Total
Checkout
Update and Remove Items
Returns andExchange
Exchange Policies
Terms andConditions
Customer Service
Social Media Support
Reviews and Feedback
Feedback Forms
CustomerReviewsandRatings
Checkout
Billing and ShippingDetails
CRM
Dashboard
NetSalesGraph
Recent Reviews
Total Number of Orders
Processing Orders
On-hold Orders
Low in stock products
Out of stock products
Orders
View all orders
Processing
Pending Payment
Completed
Cancelled
Returned Packages
Add New Orders
Customers
- Add NewCustomers
- View allcustomers
Products
- All Products
- Add New
- Categories
- Tags
- Reviews
Inventory Management
- Tracking stock availability and inventory levels.
Data capturing
Login
- User Name / Password
- Facebook
- Google
profile
- Manage Profile
- Payment Methods
- Change Shipping Address
- Change Username/Password
Favorites
Purchase history
sign up / create account
- User Name
- Email Address
- Phone Number
- Date Of Birth
Check out
- FirstName
- LastName
- Country/Region
- Street Address
- District
- City
- Postal code/Zip
- Phone
- Email Address
- Order Notes

2. Explanation of the solution, the process, features, and objectives of the system

Introduction:

The "Ample Clothing" system is an innovative synthesis of modern Customer Relationship Management (CRM) features with contemporary e-commerce capabilities. A smooth apparel purchase is made possible mainly to the web-based solution, which is meticulously developed to empower both consumers and administrators and create strong, long-lasting customer connections.

This solution includes several essential features to enhance customer management, product management, order management, and user authentication. The e-commerce website provides a user- friendly interface which allows customers to buy cloths online. Customers can create their accounts using email and password, allowing them to personalize their shopping experience and Customers can browse and explore a product catalog provided by the application and may access comprehensive product details, such as descriptions, costs, and photographs, allowing them to make wise purchases.

Within the application, customers may place orders for the required items. Customers receive order progress updates and order tracking information from the application, assuring openness and satisfaction.

The admin and the staff can manage people, goods, and orders effectively thanks to their customized CRM accounts.

The CRM gives the staff the tools they need to manage client contacts, address problems, and help, resulting in a satisfying customer experience. Additionally, the admin may add, update, and remove users using the CRM.

Customers' online buying experiences are made easier by this solution, which also allows Ample Clothing to handle customer relations and sales data effectively.

Process:

The "Ample Clothing" system runs using a clearly defined method that smoothly merges customer relationship management (CRM) and e-commerce functions.

User Registration - Customers may register for accounts by entering their email address and password. Staff and administration have personalized CRM accounts.

Browsing and shopping - Customers may explore the product catalog, examine comprehensive product information, add goods to their carts, and then shop.

Order management - Customers may place orders and obtain real-time updates on the status and location of their orders.

CRM - Administration and employees utilize customer relationship management (CRM) technologies to keep track of client connections, resolve problems, and help.

User management - The admin can add, modify, and delete users, guaranteeing effective user administration.

Handling Sales Data: The system properly handles sales data and may use it to get business insights.

Features:

The "Ample Clothing" system offers a wide range of functions that are designed to meet the requirements of both users and admin:

- Features of online shopping for customers -
  - A convenient product catalogs.
  - Photos and detailed product information.
  - Management of carts.
  - Convenient and safe checkout.
- Authenticating users -
  - Secure email and registration with passwords.
  - Individualization of the shopping process.
  - Role-based access for workers and administrators.

- Management of orders -
  - Clear order placement and monitoring.
  - Instantaneous order updates.
  - Customer order history.

- CRM System -
  - Client contact management.
  - Issue-solving instruments.
  - Ability to provide customer service.

- Administration features -
  - User administration.
  - Administrative duties and oversight.
  - Organizational process management.
  - Data management for sales.

- Data analytics for sales -
  - Keeping and retrieving data.
  - Information and analysis.

Objective:

The "Ample Clothing" method is tactically created with the following primary goals in mind:

- Enhance Customer Experience - A smooth, user-friendly, and customized purchasing experience is what the system promises to provide clients.
- Efficient Order Management - This goal comprises placing, monitoring, and updating orders for clients in an efficient manner.
- Effective CRM - Staff and admin have the resources they need to handle problems, maintain customer connections, and offer first-rate assistance.
- User Administration - Administration may effectively manage user accounts and roles through user administration.
- Data-Driven Insights - The system makes it possible to gather and analyze sales data in order to make wise decisions.
- Security and Trust - Establishing trust through safe transactions and data security is a top priority.
- Scalability - The system is made to scale in order to keep up with the business's expanding needs.
- User help - One of the main goals is to offer resources and help for users.
- Utilization of input - The system actively searches for and applies input for ongoing development.
- Future Development - A long-term goal entails strategies for system growth and marketability as a SaaS service.

Screenshots

Customer Functionalities

Home Page

Dashboar

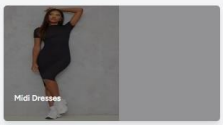
customer

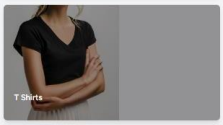
Home WishList Cart Account Menu

Ample Clothing

Immerse yourself in Unique Style and Culture

Our Collection





New Arrivals

« 1 2 3 »

Get connected with Ample Clothing on social networks:

AMPLE CLOTHING

A simple yet elegant brand specially designed and manufactured to make every woman beautiful.

PRODUCTS

- Work Wear
- Casual Wear
- Party Wear
- Night Wear

IMPORTANT LINKS

- Home
- WishList
- Cart
- Account

CONTACT

- Colombo, Sri Lanka
- ampleclothing@gmail.com
- + 011258744
- + 123658749

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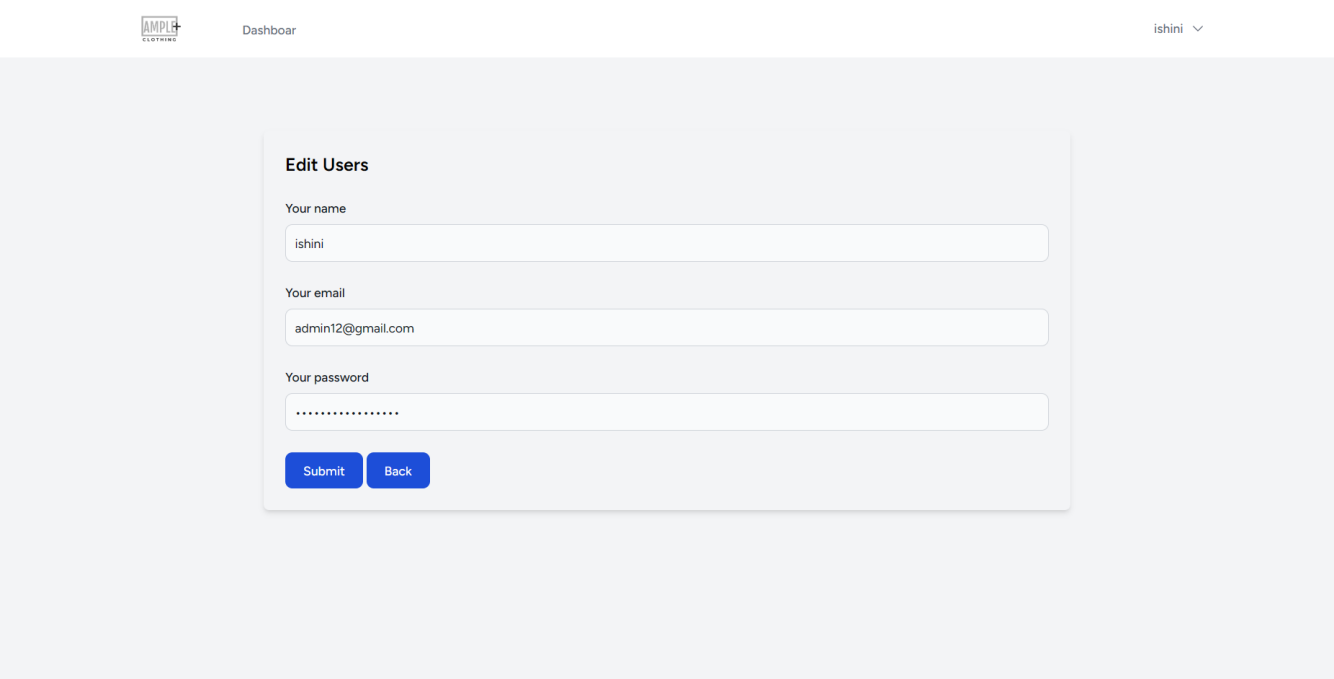
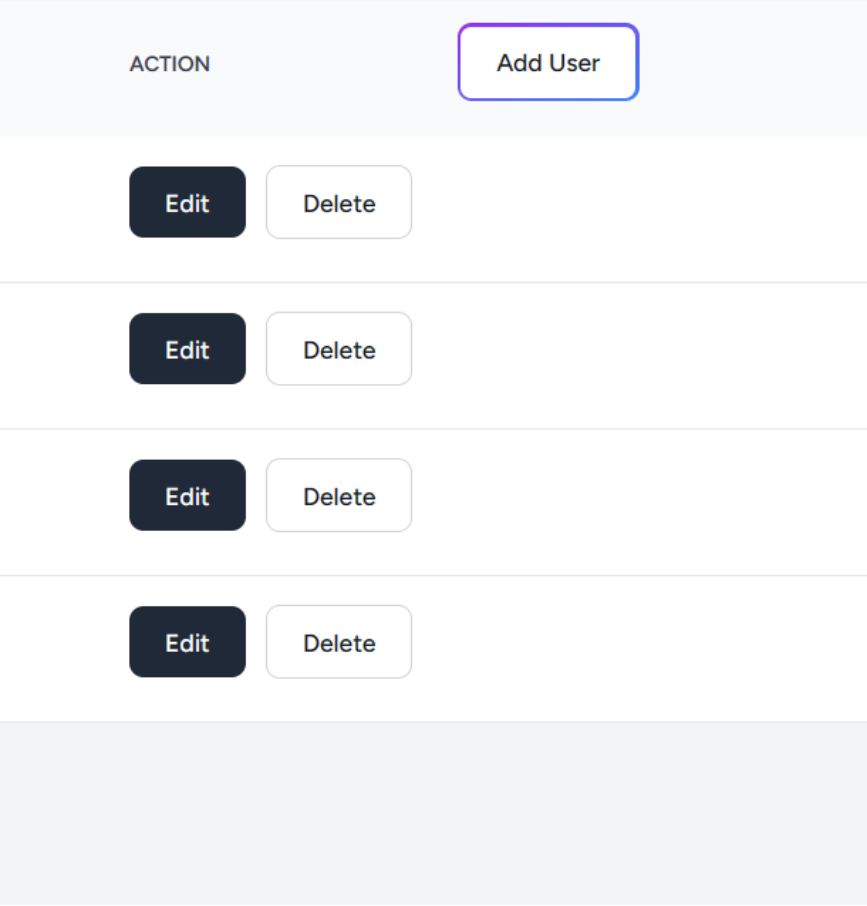
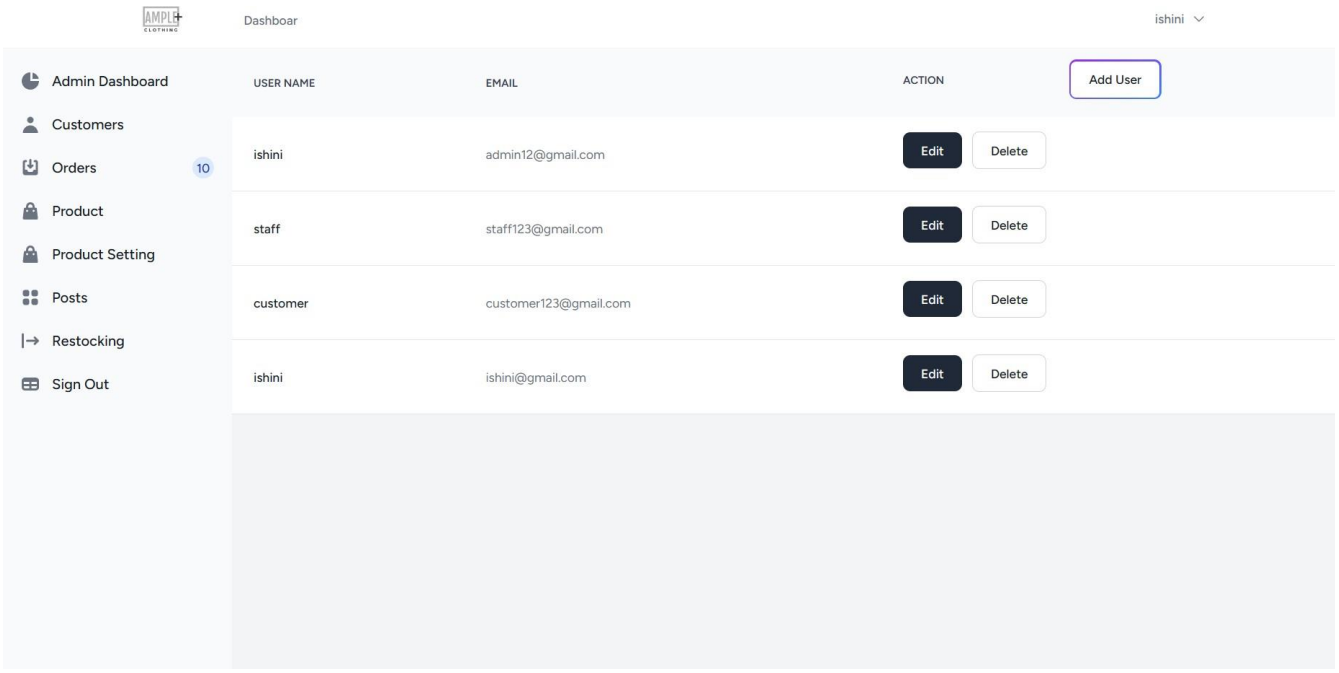
Admin Functionalities






Dashboar
ishini
Admin Dashboard
Customers
Orders
10
Product
Product Setting
Posts
Restocking
Sign Out
USER NAME
EMAIL
ACTION
Add User
ishini
admin12@gmail.com
Edit
Delete
staff
staff123@gmail.com
Edit
Delete
customer
customer123@gmail.com
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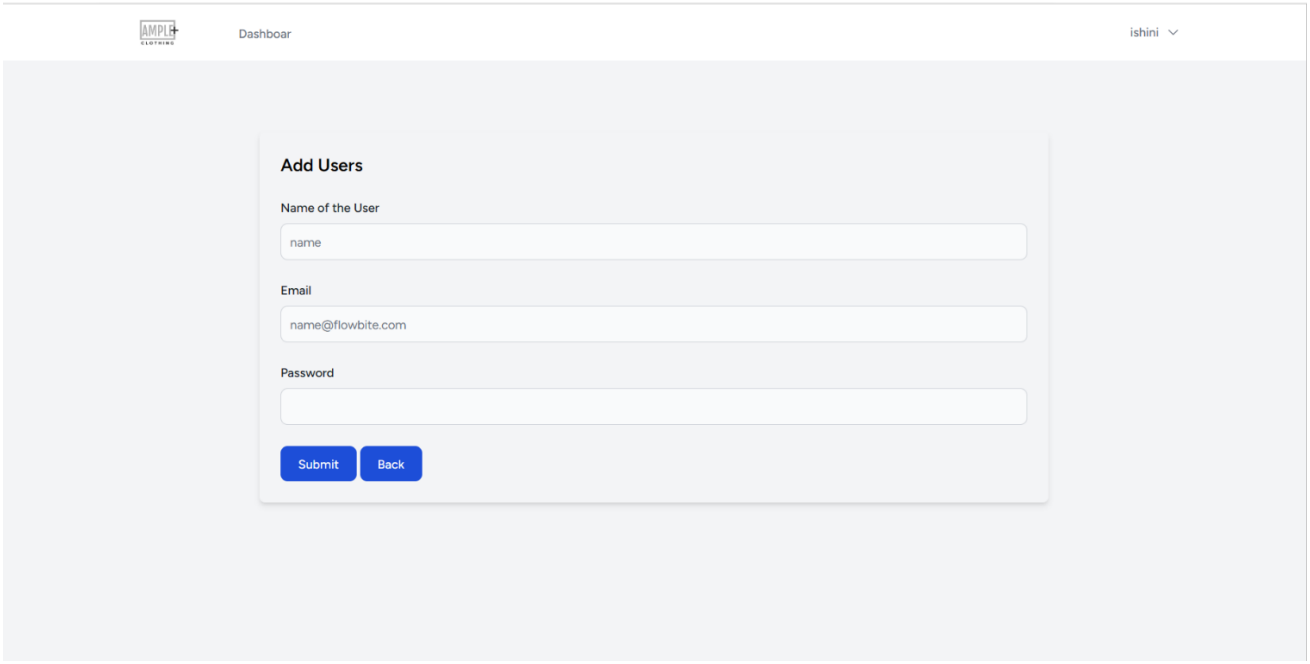
Dashboar
ishini
Add Users
Name of the User
name
Email
name@flowbite.com
Password
Submit
Back

3. Test Cases

Test Case ID	Test Case Description	Pre - Condition	Test Procedure	Test Inputs	Expected Output	Actual Output	Results
TC001	Adding Stock	Clothing items already exists in the inventory system	Adding a item to the system	Details of the added item	Updating the quantity of the stock	Stock quantity updated	Pass
TC002	Updating Stock	Clothing items already exists in the inventory system	Selling a clothing item and restock the same product	Details of the sold item and the restocked	Updating the quantity of the stock	Stock quantity updated	Pass
TC003	Stock Alerts	Few items with low stock	Montoring stock levels	Reached low stock threshold	System gives a alert	Alert Generated	Pass
TC004	Category Creation	Various Categories available in the system	Creating a new clothing category	New category details	New category added to the system	New category added	Pass
TC005	Category Modification	Various Categories available in the system	Editing and deleting an exsiting category	Category details	Category details updated and deleted	Category details updated and deleted	Pass
TC006	Recording Customer Purchase	Customer has made a purchase through the system	Recording a purchase	Customer ID and purchase details	Purchase history updated	Purchase history updated	Pass
TC007	Viewing Purchase History	Customer has made a purchase through the system	Accessing a purchase history detail	Customer ID	Purchase history displayed	Purchase history displayed	Pass
TC008	Purchase Analytics	Several purchases in the system	create a report on purchase analytics.	Data range for analysis	Analytics report displayed	Analytics report displayed	Pass
TC009	Purchase History Search	There is a purchase history	Search for a specific purchase	Purchase details	Searched history displayed	Searched history displayed	Pass

Test Case ID	Test Case	Description	Pre - Condition	Test Procedure	Test Inputs	Expected Output	Actual Output
TC010	Functinality Testing	Confirming that the product page appropriately displays all of the information about the product.	The database contains product data.	Go to the product page by clicking. Check to see that the right product information—name, description, price, etc.—is being shown.	Product ID	All product details are displayed accurately.	All the products are displayed correctly.
TC011	Usability Testing	Check the user-friendliness of the user registration procedure.	Accessible user registration form.	Try to sign up as a new user. Examine the registration form's usability, clarity, and helpfulness of the error messages.	Registrartion Details	With simple instructions, a user should be able to register with ease.	User Registered
TC012	Performance Testing	Check the product search feature's response speed.	Search functionality is available.	Start a product-related search. Calculate how long it takes for search results to appear.	Search Query	The time it takes to display the search results is reasonable.	Systems takes a minimum time period to perform

4. The quality assurance review process.

Review Goal

The "Ample Clothing" system's quality assurance (QA) review procedure aims to:

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Review Criteria

The "Ample Clothing" system is assessed by the QA review based on functionality, usability, and performance standards.

5. Why the test cases were created, and a deep analysis.

a) User Registration

Purpose - The purpose of this test case was to verify the user registration procedure. The goal was to make sure people could sign up easily, as this is a crucial part of onboarding customers.

Deep Analysis - An important step in the user onboarding process is the registration of new users. The pleasure of users is increased and adoption is promoted through a simple registration process. The user-friendliness of the system may be determined by analyzing the test case's findings. Any variations from anticipated results may point to places where usability needs to be improved.

b) Product Search

Purpose - This test case assesses the functioning of the product search tool, which is essential for helping consumers locate goods effectively.

Deep Analysis - A flawless shopping experience depends on effective product search. User happiness directly depends on how quickly and accurately search results are returned. Performance problems will be highlighted, along with any possible effects they may have on usability.

Recommendations:

The following suggestions are offered in light of the findings and comprehensive study of test cases:

To improve system dependability, give discovered issues high priority and fix them right away.
Keep doing usability tests to improve the user experience even further.
Complete performance testing should be carried out at peak load conditions.
Create and maintain a reliable defect monitoring system to ensure ongoing quality enhancements.

6. The future upgrade plan to ensure the system is future-proofed

Future-Proofing "Ample Clothing" as a SaaS Solution: A Strategic Roadmap

To be competitive, organizations must adapt and innovate as the digital world continues to change at an unprecedented rate. Our web-based application "Ample Clothing," which combines an e-commerce website with a powerful Customer Relationship Management (CRM) system without difficulty, is no exception. A future upgrade strategy is essential to ensuring its continued relevance and market dominance. The goal of this strategy is to describe how we see turning "Ample Clothing" into a Software as a Service (SaaS) solution, an initiative that offers scalability, accessibility, and long-term growth.

The SaaS Advantage: Scalability and Accessibility

The implementation of the SaaS model is the cornerstone of our future upgrading strategy. This tactical change is a paradigm shift that enables "Ample Clothing" to surpass the constraints of conventional software. Our platform has never-before-seen scalability thanks to SaaS. Our system can easily expand resources in response to demand, ensuring that it can handle any sizeable increase in the number of users.

SaaS also enables universal accessibility. "Ample Clothing" is now accessible from any location, at any time, and on any device with an internet connection thanks to cloud-based deployment. Customers are not the only ones who can oversee operations from multiple places with ease; our staff and administrators can as well, increasing responsiveness and efficiency.

The potential for "Ample Clothing" to become a Software as a Service (SaaS) solution is quite promising. Outlining the strategic roadmap and important factors for promoting and selling our SaaS service to a larger audience is crucial as we start this journey.

By turning "Ample Clothing" into a Software as a Service (SaaS) solution, we can make our present CRM and e-commerce system more adaptable so that it can be advertised and sold to a wider customer base. With this growth, businesses in the clothes retail sector, especially small and medium-sized ones, now have more access to our user-friendly and feature-rich solution without having to invest heavily in its creation and upkeep. Strategic market positioning, adaptable pricing strategies, effective digital marketing, first-rate customer service, and a dedication to data protection are the main components of our future strategy. As a result, "Ample Clothing" is guaranteed to develop into a reliable and affordable solution for clothing merchants and business owners wishing to improve their online visibility and customer relationship management.