DATA STRUCTURE LAB

PROJECT SYNOPSIS

TOPIC: SHOPPING CART

Batch: B12

Submitted To:

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I would also like to thank our friends who helped us through the project and stood a very crucial pillar of the group. Without their help this project could've not been initiated and should have not been implemented.

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Introduction

Shopping cart website are used for online purchase of utility and product where users can search product of their choices, add them into cart.

“On-Line Shopping System” is a project which is made for remote-shopping or shopping through Internet.

As the technology is being advanced the way of life is changing accordance. Now a day’s we can place the order for anything from our home. There is no need to go the shop of the things we want. The order can be placed online through Internet.

The payment, the confirmation of purchasing; we can do everything we want. Now we can think that how the days have been changed with time.

People had to stand in rows to wait their terms to buy a particular thing from a popular shop

Objective

Main objective of the shopping cart website is to make easy and convenient to the users.

This site is giving all the information about the e-shopping to provide better service for the customer.

It provides the facility to the customers who want to shop on-line due to lock of time

It provides the remote shopping by the cash, UPI payment or Debit card.

It provides better security and good delivery service to the customer.

Users are allowed to make purchase of product of their choices, without visiting market or some other places.

Features of The Project

Creating an online shopping system using C++ is a complex project that involves multiple features and functionalities. Below, are some outlines of the key features that we considered in our C++ online shopping project:

1. User Authentication:
    - User registration and login system.

- Password security measures to protect user data.

2. Product Management:
    - Add, edit, and delete products.
    - Categorization and tagging of products.
    - Display of product details, including price, description, and availability.
3. Shopping Cart:
    - Add and remove items from the cart.
    - Modify item quantities in the cart.
    - Calculate and display the total price of items in the cart.
4. Order Processing:
    - Checkout process with shipping and billing information.
    - Confirmation email for orders.
    - Order history and tracking.
5. Search and Filtering:
    - Search functionality to find products by keywords.
    - Filter products by category, price range, and other attributes.
6. User Profile:
    - User dashboard with order history and account details.
    - Profile editing and password change.
7. Payment Integration:
    - Integration with payment gateways for secure transactions.
    - Handling of payment failures and refunds.
8. Inventory Management:
    - Stock management to ensure product availability.
    - Notification for low-stock items.
9. Reviews and Ratings:
    - Allow users to leave reviews and ratings for products.

- Display average ratings and reviews on product pages.

10. Wishlist:
    - Option for users to create and manage a Wishlist.
    - Add items from the Wishlist to the shopping cart.
11. Admin Panel:
    - Administrative dashboard for managing products, users, and orders.
12. Error Handling and Logging:
    - Implement comprehensive error handling and logging for debugging and monitoring.

Comparsion between products

Certainly! You can add a feature to your shopping website that helps customers compare and get better prices for iPhone and Samsung phones. This feature would enhance the shopping experience by providing valuable information and options to customers.

Firstly, you can implement a dedicated "Compare" feature where customers can select specific iPhone and Samsung phone models they are interested in. The website would then display a side-by-side comparison of these chosen models, highlighting key features such as camera quality, processor speed, battery life, and storage capacity. This comparison chart will enable customers to make informed decisions based on their preferences and priorities.

To help customers get a better price, you can integrate a "Price Comparison" tool. This tool would fetch prices for the selected iPhone and Samsung models from various trusted online retailers, allowing customers to see the best available deals. It can also provide options for buying the products from these different retailers, giving customers the choice to select the most affordable option.

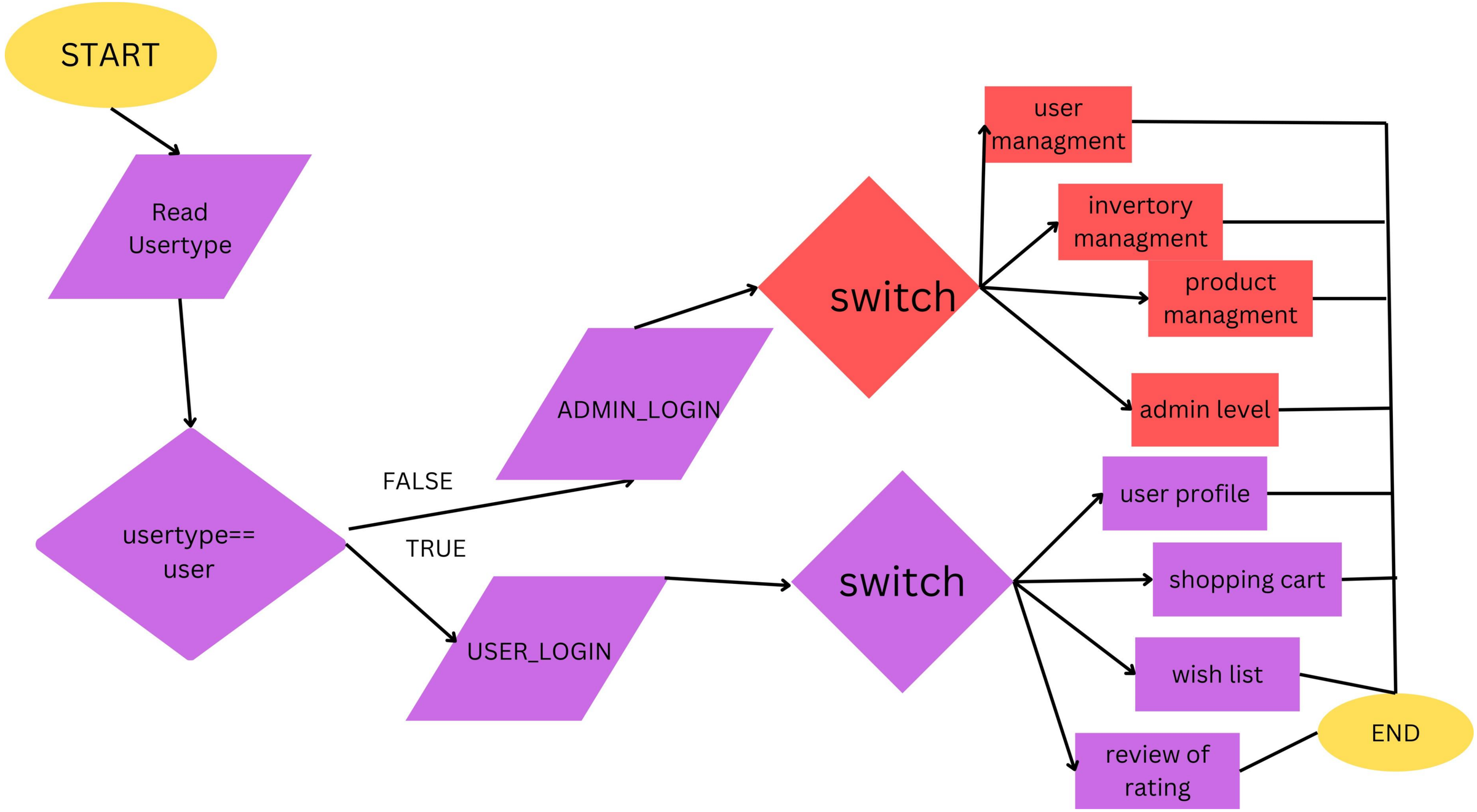
Additionally, you can incorporate user reviews and ratings for each phone model, giving customers insights into real-world experiences with the devices. This can help customers make a more comprehensive evaluation before making a purchase.

By implementing these features, your shopping website will empower customers to compare iPhone and Samsung phones comprehensively, understand their differences, and make well-informed choices while also finding the best prices

available in the market. This user-friendly and informative approach will enhance the overall shopping experience on your website.

Features of C++ and Data Structures used:

- OOP's (Object Oriented Programming)
- Data Structures:
    - Linked-List
    - Stack
    - Queues
    - BST's
        - Trees
        - Graphs
        - Hash tables


START
Read Usertype
usertype== user
FALSE
TRUE
ADMIN_LOGIN
USER_LOGIN
switch
switch
user managment
invertory managment
product managment
admin level
user profile
shopping cart
wish list
review of rating
END

PROS

Enhanced User Experience: The shopping cart project has significantly improved the user experience for customers, making it easier for them to browse products, add items to their cart, and complete transactions.

Increased Sales: The new shopping cart system has contributed to an increase in sales and revenue for the organization. This could be due to improved functionality, better product presentation, or a smoother checkout process.

Efficiency and Productivity: The project has streamlined internal processes for managing orders, inventory, and customer data. This has resulted in increased efficiency and productivity among employees.

CONCLUSION

The conclusion of a shopping cart project would typically involve summarizing the key achievements, outcomes, and lessons learned throughout the project. Here's a general outline for the conclusion of a shopping cart project:

1)Project Overview:

Begin by providing a brief overview of the shopping cart project, including its objectives, scope, and purpose.

2) Key Achievements:

Highlight the major accomplishments and milestones achieved during the project. This could include the successful development and implementation of the shopping cart system.Mention any specific features or functionalities that were added or improved as part of the project.

3) Customer Satisfaction:

Discuss the level of customer satisfaction with the shopping cart system. If possible, include feedback from users or stakeholders to demonstrate how the project met their needs and expectations.