Wholesale System with Android

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**Introduction:**

The Wholesale System Android Project is a global system that improves wholesale operations across national borders. In the current globalized business environment, this project plays a crucial role in advancing sustainability, efficiency, and transparency in a variety of marketplaces.

**Problem Statement:**

Obstacles that the wholesale market must overcome include outdated inventory management, manual processes, and a lack of standardization, which lead to mistakes and increased expenses. The Wholesale System Android Project is an important solution that is necessary for precision, effectiveness, and worldwide flexibility in a fast-paced commercial environment.

**Use Cases:**

**Customer Registration and Login**: The customer wishes to sign into an existing account or create a new one.

Input: The customer enters login information or registration data. When the information is found to be accurate, the system permits access.

Output: System access is granted to the customer.

**Product Catalog:** The customer must view the products that are offered.

Input: The customer browses the product catalog. A list of products containing information (name, price, quantity, etc.) is displayed by the system.

Output: The product catalog is accessible to customers.

**Profile Update:** As a customer they can add or update their profile and address updates.

Input: The customers can update their personal information in system while delivering their orders.

Output: As a customer they can edit an existing address and profile in their account. Confirmation message of the successful update of the profile and address updates.

**Forgot Password:** As a customer if they forgot password, they could change it via forgot password.

Input: The customer clicks on the "Forgot Password" link on the login page and provides the email address associated with their account.

Output: The system sends a password reset link to the customer's email address.

**Functional Requirements:**

**Customer Authentication:**

The system MUST provide secure customer authentication.

Customer credentials MUST be securely authenticated.

Customer passwords MUST NOT be stored in plain text.

Registered customers MUST be able to log in.

The login interface MUST be customer friendly.

Customer MUST receive feedback during authentication.

**Product Catalog:**

The system MUST allow customers to browse wholesale products.

Product information (name, price, description) MUST be displayed.

Customers MUST be able to search for products by name or category.

Filtering options MUST be provided to refine search results.

Customers MUST be able to view detailed product information.

Customers MUST be able to add products to a shopping cart.

**Profile Update:**

Registered customers MUST have access to their profile page.

Customers MUST be able to view and edit their personal information.

Customers MUST be able to update their profile information, including name, contact details, and other relevant data.

The system MUST provide a confirmation message after a successful update.

The profile interface MUST be user-friendly and easy to navigate.

**Forgot Password:**

The system MUST ensure the security of the forgot password functionality.

Customer email addresses MUST be validated to prevent unauthorized access.

The forgot password link MUST have a time limit for security purposes.

Customers MUST be able to enter their registered email address on the forgot password page.

The system MUST provide clear instructions on the input requirements.

If the entered email address is valid, the system MUST display a success message and inform the customer that a password reset link has been sent to their email.

In case of an invalid email address, the system MUST provide appropriate error feedback.

Customers MUST receive an email with a secure link for password reset.

**Non-Functional Requirements:**

**Performance:** For tasks like product searches and order processing to take place on a typical Android handset in under two seconds, the system must be responsive.

**Security:** Data Encryption: Both during storage and transmission, all sensitive data, including user credentials and payment information, must be encrypted. Authentication: To guarantee data security, strong user authentication processes like multi-factor authentication must be put in place. Authorization: Access restrictions that limit user access to features and data based on roles and permissions must be in place.

**Availability:** Uptime: The system must be accessible around the clock, with planned maintenance windows set aside for minimal usage. To reduce downtime during system failures, redundant server instances and automated replacement procedures should be in place.

**Scalability:** By dispersing the load across numerous server instances, the system should be able to manage an increasing number of concurrent users. By effectively utilizing the capabilities of more powerful Android devices, the app should be able to support expansion.

**Reliability:** To make maintenance and future improvements easier, developers should follow coding standards and use well-documented code. To allow for upgrades or replacements without having an impact on the entire system, the system should be created with well-defined and modular components.

**Documentation:** Make thorough user manuals available to assist users in navigating the program. Maintain thorough technical documentation for administrators and developers to aid in troubleshooting and system administration.

**Architecture:**

Our wholesale system employs the Model-View-Controller (MVC) design pattern on the Android platform, ensuring a modular and maintainable structure. This approach separates concerns, enhancing code organization. Leveraging Android's capabilities, we deliver a robust and user-friendly application for seamless wholesale product management and customer interaction.

A diagram of a model

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**Platforms and technologies:**

**UI - Android Studio:** Android Studio, a powerful IDE, is utilized for crafting the user interface, streamlining Android app development through its rich set of design tools and efficient coding environment.

**Back End - Java:** The backend logic is implemented using Java, a versatile and widely used programming language, ensuring robust functionality and seamless integration with the Android platform.

**DB - Firebase:** Firebase, a real-time NoSQL database, serves as the backend database, offering scalability, offline support, and easy integration with Android applications for efficient data storage and retrieval.

**Platform - Android SDK:** The Android Software Development Kit (SDK) provides a comprehensive set of tools and libraries, facilitating the development of feature-rich and high-performance Android applications on various devices.

**Third party libraries to provide functionality:**

**Firebase:** Firebase is a comprehensive mobile and web development platform by Google, offering a suite of services including real-time NoSQL database, authentication, hosting, and cloud functions. Known for its scalability, ease of use, and seamless integration, Firebase empowers developers to build dynamic, feature-rich applications with real-time data synchronization and robust backend capabilities.

**Hosting strategy and requirements:**

**Cloud Hosting:** Utilize cloud platforms such as AWS, Google Cloud, or Azure for wholesale system's hosting. Leverage the scalable infrastructure to dynamically allocate resources based on demand, ensuring high availability. Benefit from global distribution capabilities, optimizing performance for users worldwide and providing a reliable foundation for the wholesale application's growth.

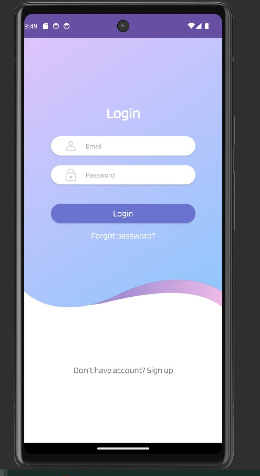
**Requirements:** Host the wholesale system on a cloud platform with scalability for varying workloads, high availability, data security, and compliance. Optimize database management, implement backup and disaster recovery plans, leverage global distribution, monitor performance, manage costs, integrate DevOps practices, and maintain comprehensive documentation for efficient and reliable hosting.

**Data Management Plan:**

![A diagram of a product

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**Prototype Demos:**

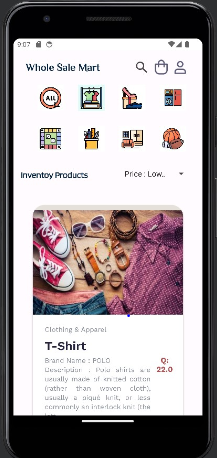
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**A screenshot of a phone

Description automatically generated**

**A screen shot of a phone

Description automatically generated**

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**A screen shot of a phone

Description automatically generated**

**What have been accomplished?**

We encountered many difficulties that forced us to think creatively and beyond our comfort zones. But after a great deal of perseverance and numerous hours of work, we not only overcame those difficulties but also gained improved abilities and a deeper comprehension of Android development. Every obstacle served as a springboard, and even if the path was difficult, it was also immensely fulfilling. With our newfound proficiency, we're prepared to take on the next phase of Android development!

**Sprig 2024 plan:**

1. Adding Products to Cart
2. Managing Cart Contents
3. Order Placement
4. Inventory Management
5. Management of Customers
6. Payment Gateway
7. Admin
8. Better Profile and Address Update