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SNHU

2-3 Project One Milestone

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1. A.Inventory Application.

   B.Mobile app goals:

   - Goal: To create a user-friendly mobile application that efficiently manages and tracks inventory items within a warehouse setting.
   - Specific goals:
   - Provide a clear and organized interface for adding, editing, and viewing inventory items.
   - Enable secure user login and account management.
   - Offer real-time inventory updates and notifications.
   - Streamline inventory management processes, reducing manual errors and saving time.

   B. Overarching Purpose: The Inventory App's purpose is to provide a comprehensive tool for businesses to manage their stock levels effectively. It aims to eliminate the need for manual tracking, improve accuracy, and provide instant access to inventory data.

   - Major Components:
   - User Authentication: Secure login and registration functionality.
   - Inventory List Screen: A grid-based display showing all inventory items with key details (name, quantity, etc.).
   - Item Detail Screen: A screen displaying detailed information about a selected item, including editing options.
   - Add/Remove item Functionality: Features to add new items and adjust existing item quantities.
   - Search/Filter: Ability to quickly find specific items within the inventory.
   - Notifications: Alerts for low stock levels.
   - Scenario Specifics:

- Database: Two tables: One for inventory items and one for user logins/passwords.
- Login Screen: Includes a "Create Account" option for new user.
- Grid Display:The main screen for viewing inventory items, as mentioned in the rubric example.
- Quantity Adjustment: Functionality to increase or decrease item quantities.
- Low Stock Notifications: Alerts users when an item's quantity reaches zero.

C. Explain the design.
- High-Level Design:
- Intuitive Navigation: Simple and easy-to-understand navigation between different sections of the app.
- Clear Visual Hierarchy: Use of visual cues to guide users and highlight important information.
- Efficient Data Entry: Streamlined processes for adding and editing inventory items.
- Real-time Updates: Data synchronization to ensure accurate and up-to-date information.
- Features and How They Serve Users:
- User-Friendly Interface:Reduces learning curve and improves efficiency.
- Search and filter: Saves time and effort in locating specific items.
- Notifications: Prevents stockouts and ensures timely restocking.
- Quantity adjustment: Allows for accurate tracking of inventory changes.
- Secure Login: Protects sensitive inventory data.

2. Compare the mobile app:
- Competitive Analysis:
- App 1: "Sortly"
- Strengths: Visual inventory management, barcode scanning, custom fields.
- Weaknesses: Can be expensive for larger inventories, complex interface for some users.
- App 2: "Inventory Now"
- Strengths: Simple interface, cloud synchronization, multi-user support.
- Weaknesses: Limited customization options, basic reporting features.

- Comparison: The Inventory App would aim to strike a balance between simplicity and functionality. It would focus on a user-friendly interface like "Inventory Now" while incorporating essential features like barcode scanning and custom fields from "Sortly". It would differentiate itself by offering cost-effective solutions for small to medium-sized businesses and providing robust reporting tools.

C. Potential Users:

- Small Business Owner:
- Goal: Efficiently manage inventory for their retail store or online business.
- Needs: Simple interface, quick data entry, low-stock alerts.
- Engagement: Uses the app daily to track sales and restock items.
- Warehouse Manager:
- Goal:Maintain accurate inventory records and prevent stockouts.
- Needs: Real-Time updates, detailed reporting, barcode scanning.
- Engagement: Uses the app throughout the day to monitor inventory levels and manage stock movements.
- Inventory Clerk:
- Goal:Efficiently add, remove, and update inventory items.
- Needs: Easy-to-use interface, quick data entry, search functionality.
- Engagement: Uses the app multiple times a day to process inventory transactions.