**Data Management Plan**

**Summary of Data to Store:**

**User Data:**

* User ID
* Username
* Email
* Password (hashed and salted)
* Profile Information (name, address, contact information)

**Customer Orders Data:**

* Order ID
* Customer ID (foreign key)
* Order Date
* Order Status
* Order Details (products, quantities, prices)
* Payment Information (credit card details, PayPal, etc.)

**Inventory Data:**

* Product ID
* Product Name
* Product Description
* Quantity in Stock
* Price
* Supplier Information

**Help Assistance and Live Chat Data:**

* Chat ID
* User ID (customer)
* Agent ID (admin)
* Message Content
* Timestamp

**Data Storage and Security:**

**Data Storage:**

All data will be stored in a relational database management system (RDBMS) for structured and efficient storage.

**Data Security:**

Strong security measures will be implemented to protect sensitive data, including encryption for data in transit and at rest, access control, and regular security audits.

* User Authentication and Registration: User data is stored for authentication and registration, including user IDs, usernames, email addresses, and hashed passwords.
* Password Reset Email: Storing email addresses for password reset emails is necessary, and you've highlighted the use of a secure mechanism.
* User Profile Management: User profiles are stored with details like name, address, and contact information.
* Customer Orders and Payment Management: Data related to customer orders and payment information is stored and linked to customer IDs.
* Help Assistance and Live Chat: You've specified what data is stored for the live chat feature, including user IDs, chat messages, and timestamps.
* Admin Authentication and Inventory Management: Admin authentication is handled similarly to user authentication, and data regarding inventory and stock details is well-structured.
* Stock Details and Active Orders Monitoring: You've described how stock details and active orders are tracked and stored.

This data management plan outlines the data to be stored, the choice of storage system, and security measures for the Wholesale System project.