**Project : Resham - A clothing store management web application.**

**Requirements collection:**

**1.Introduction**

**1.1 Purpose :** The purpose of this document is to gather and define the requirements for developing a comprehensive software solution for a clothing store “Umrao Collections”. This software will manage various aspects of clothing operations including inventory track and management, inventory categorization, stock alerts and notification, sales and purchase management.

**1.2 Scope:** The software will support multiple types of users, including restaurant managers, staff, and customers. It will be designed to enhance efficiency, improve customer service, and streamline operations.

**2. Stakeholders**

**2.1 Stakeholder Identification**

* **Clothing store owners/managers:** Oversees operations and requires analytical and reporting tools.
* **Staff :** Need efficient and simple inventory , order and purchase management.

**2.2 Stakeholder Needs**

* **Owners/Managers:** Reporting, analytics, staff scheduling, inventory management.
* **Staff:** Order management, inventory management and purchase management.

**3. Functional Requirements**

**3.1. General Business questionnaires**

a. What is the primary goal of your clothing store?

* **Ans:** Provide best quality service to customers, maximize work efficiency, expand the branch to different location and maximize profit.

b. What are the main types of clothing products do you sell?

* **Ans:** We especially foucs on mens wear. We provide branded clothing items and men accessories.

c. Do you have both physical and online store, or only one of them?

* **Ans:** As of now we are only operating on physical locations.

**3.2. Inventory management**

**Questionnaires:**

a. How do you currently manage your inventory?

* **Ans:** Currently we manage our inventory using ledger books. All of the purchased items are recorded in a ledger book with date , items purchased , quantity and supplier.

b. What challenges do you face with inventory management?

* **Ans:**  Tracking our inventory is our biggest challenge. Tracking stock levels, searching the ledger book through to look for inventory is just very hard.

c. How do you keep track of product stocks?

* **Ans :** Using ledger books and counting by hand on regular intervals.

d. Do you need real time inventory tracking and stock level alerts?

* **Ans:** Yes

e. How do you keep track of products of different categories?

* **Ans:** Same answer using ledger books.

**Features:**

* **Feature 1 :** Staff can add,view and delete the inventory items.
* **Feature 2:** Stock level alerts and notification. Easy to view inventory records and tracking.
* **Feature 3 :** Implement categorization in inventory management also implement custom tags and attribures.

**3. Sales management**

a. What is the current process for managing sales transaction?

* **Ans:** The sales transaction process right now we are doing physical transaction and recently we also have options for fone pay.

b. How do you track customer purchases?

* **Ans:** The purchases are tracked using daily ledgers and bills copy are stored physically.

**Features:**

* **Feature 4 :** Staff can add, view and keep track of sold and returned items.
* **Feature 5:** Bills are generated automatically.
* **Feature 6:** Online payment integration.

**4. Online store**

a. Do you have a existing e-commerce platform? If so , which one? (if yes)

i. How do you manage your online store’s inventory in relation to your physical store?

ii. Do you require integration between your online and offline sales systems?

* **Ans:** No

b.(In case of not having e-commerce platform) Do you plan to create a online e-commerce platform in near future?

* **Ans:** We are positive on that aspect but this depends upon our sales and future trends.

**5. Reporting and analysis**

a. What types of reports and analytics do you need (e.g. sales reports, inventory reports)?

* **Ans:** We need sales reports, inventory reports and keep track of profit and loss.

b. How often do you need these reports?

* **Ans:** Weekly, monthly and yearly reports are appreciated.

c. Do you need real-time data analytics or periodic reports?

### **Ans:** We need periodic reports.

**Features:**

* **Feature 7:** Generate weekly,monthly and yearly graphical reports on sales, purchase and inventory. Only can be viewed by owners/managers.

### **6. User Access ,Security and Backup:**

### a. Who will need access to the management system (e.g., store managers, sales staff, inventory clerks)?

* **Ans:** We should be able to view the sales reports as owners exclusively and staff can view inventory and purchase data.

### b. What levels of access do different users need?

* **Ans:** Owners should get full access while the staffs can only access inventory and purchase management and adding sales reports.

### c. Do you have specific backup requirements for your data?

* **Ans:** If it is necessary. We do need to keep the records safely for future so I guess yes.

**Features:**

* **Feature 8:** Distinguish access levels.
* **Feature 9:** Daily backup on redundant disks and cloud backups.

### **7. Support and Maintenance:**

### a. What are your expectations for support and maintenance?

* **Ans:** We aren’t expecting any problems while we will be using your software, If any problem occurs we definitely are expecting support from you also we will be adding new features if necessary.

### b. Do you need training for your staff on the new system?

* **Ans:** Yes

### c. How frequently do you expect updates and new features?

* **Ans:** We believe in slow and steady progress so, even if the updates are late we need a robust and stable software.

**4. Non-Functional Requirements**

**4.1 Performance**

* **Requirement:** The system must handle simultaneous access by multiple users without significant delay.
* **Ans:** Optimize the system for concurrent usage, stress-test during development.
* **Requirement:** Real-time updates for order management.
* **Ans:** Implement a low-latency architecture to ensure real-time data flow.

**4.2 Reliability**

* **Requirement:** The system should be operational 99.9% of the time.
* **Ans:** Use redundant systems and regular maintenance schedules.
* **Requirement:** Data backup should be performed daily.
* **Ans:** Implement automated daily backups to secure data.

**4.3 Usability**

* **Requirement:** Intuitive user interface for all user types.
* **Ans:** Design with user-centered principles, conduct usability testing.
* **Requirement:** Minimal training required for staff to use the system.
* **Ans:** Provide comprehensive onboarding and user-friendly documentation.

**4.4 Security**

* **Requirement:** Compliance with data protection regulations (e.g., GDPR, PCI DSS).
* **Ans:** Follow best practices for data protection and encryption.
* **Requirement:** Role-based access control to limit access to sensitive information.
* **Ans:** Implement role-based permissions to secure sensitive data.

**5. Technical Requirements**

**5.1 Architecture**

* **Requirement:** The software will use a client-server architecture.
* **Ans:** Implement a robust client-server model using REST APIs

**5.2 Integration**

* **Requirement:** Integration with third-party services (e.g., payment gateways).
* **Ans:** Use APIs to integrate with external services and systems.

**5.3 Platform Compatibility**

* **Requirement:** Accessible on multiple platforms (web, iOS, Android).
* **Ans:** Develop cross-platform applications using frameworks like React Native.
* **Requirement:** Responsive design for different screen sizes.
* **Ans:** Ensure the user interface is responsive and adaptable to various devices

**6. Project Timeline and Milestones**

**6.1 Phases**

* **Phase 1:** Requirement Analysis and Planning
* **Answer:** Gather requirements, create project plan, and get stakeholder approval.
* **Phase 2:** Design and Prototyping
* **Answer:** Develop design prototypes and validate with stakeholders.
* **Phase 3:** Development
* **Answer:** Implement core functionalities and integrate systems.
* **Phase 4:** Testing and QA
* **Answer:** Conduct comprehensive testing and fix any issues.
* **Phase 5:** Deployment and Training
* **Answer:** Deploy the system and train staff on its use.
* **Phase 6:** Maintenance and Support (Ongoing)
* **Answer:** Provide ongoing support and maintenance post-deployment.

**6.2 Milestones**

* **Milestone 1:** Completion of requirements document.
* **Milestone 2:** Approval of design prototypes.
* **Milestone 3:** Completion of core modules.
* **Milestone 4:** Successful testing phase.
* **Milestone 5:** Official launch of the software

**7. Risks and Mitigation**

**7.1 Identified Risks**

* **Risk:** Delays in development.
* **Mitigation:** Regular progress reviews and agile methodology.
* **Risk:** Technical issues with integration.
* **Mitigation:** Allocate extra time for integration testing and have backup solutions.