**Project's Scrum Team**

● Product Owner – Rohan Singh

● Scrum Master – Kalash Jain

● Development Team

* Software Developer – Nischay Sanjay
* Quality Assurance Engineer – Swaraj Singh
* UX/UI Designer – Keerthan Kumar M

**Product Backlog**

● Product Backlog is a prioritized list of features, enhancements, bug fixes, and other tasks that need to be addressed in the development of the system. It serves as a dynamic document that evolves over time and is maintained by the Product Owner.

**● User Stories:**

* Item Addition and Removal
* Inventory Search and Filters
* Item Details and Management
* Order Processing
* Inventory Reports and Analytics
* User Profile and Access Control

**● Technical Tasks:**

* Database Design and Implementation
* Integration with Barcode Scanners
* Third-Party API Integration (e.g., suppliers, shipping)
* Data Security Measures
* Performance Optimization
* Error Handling and Logging

**● Additional Features:**

* Mobile App for Inventory Management
* Multi-Language Support
* Promotions and Discounts
* Real-time Inventory Updates
* Feedback and Rating System

**● Bug Fixes and Maintenance:**

* Address User Interface Issues
* Resolve Order Processing Bugs
* Server Downtime Issues
* Data Synchronization Problems

**● Compliance and Regulations:**

* Data Protection Compliance
* Inventory Control Regulations

The Product Backlog is a living document, and items can be added, modified, or removed based on feedback from stakeholders, changing market demands, and technological advancements. The Product Owner continuously refines and prioritizes the backlog to guide the development team's work during each sprint.

**High-Level Sprint Plan**

**Sprint 1: Project Initialization (Week 1)**

● Sprint Goal: Establish the project's foundation and environment.

● Sprint Backlog:

* Set up the project repository and version control.
* Create the initial database schema for inventory items and user profiles.
* Implement user authentication and access control.

**Sprint 2: Basic Inventory Management (Week 2)**

● Sprint Goal: Implement essential features for managing inventory.

● Sprint Backlog:

* Develop inventory search and filtering functionality.
* Enable users to add, edit, and remove items from the inventory.
* Implement barcode scanner integration for item management.

**Sprint 3: Order Processing and Reports (Week 3)**

● Sprint Goal: Streamline order processing and add reporting capabilities.

● Sprint Backlog:

* Implement order processing features.
* Create inventory reports and analytics tools.
* Address user interface issues and optimize user experience.

**Sprint 4: User Profiles and Access Control (Week 4)**

● Sprint Goal: Enhance user profile management and access control.

● Sprint Backlog:

* Implement user profile management functionalities.
* Refine access control and permissions.
* Add multi-language support to the system.

**Sprint 5: Testing and Bug Fixes (Week 5)**

● Sprint Goal: Conduct comprehensive testing, identify and fix bugs.

● Sprint Backlog:

* Perform automated and manual testing of all features.
* Address any identified bugs and issues promptly.
* Conduct load testing to ensure system performance under various conditions.
* Implement error handling mechanisms and logging systems.

**Sprint 6: Documentation and Deployment (Week 6)**

● Sprint Goal: Finalize documentation and prepare for deployment.

● Sprint Backlog:

* Write user manuals and technical documentation for the system.
* Prepare deployment scripts and documentation for the operations team.
* Perform final system testing and resolve any last-minute issues.
* Coordinate with the operations team for the system's deployment to production servers.