REPUBLIC OF THE PHILIPPINES

BICOL UNIVERSITY

BICOL UNIVERSITY POLANGUI

Project Scope and Use Case Definition

Inventory Management System

1 .Brief Description of the System

- The Inventory Management System (IMS) is a software application designed to manage and track inventory levels, monitor stock movements, and optimize storage capacity for a retail or manufacturing organization. The system aims to streamline inventory operations, reduce costs, and improve overall supply chain efficiency.

2. Key Functionalities

- Inventory Tracking- Record and track inventory levels, including quantity and status.
- Stock Management- Manage stock movements, including receipts, issues, and transfers.
- Order Management- Automate order processing, including generating pick lists and packing slips.
- Reporting and Analytics-Provide real-time insights into inventory levels, stock movements, and supply chain performance.

3. Stakeholders

- Inventory Managers-Responsible for managing inventory levels, tracking stock movements, and optimizing storage capacity.
- Supply Chain Managers-Oversee the entire supply chain, including procurement, logistics, and distribution.
- Executive Management- Monitor inventory performance and make strategic decisions based on IMS data.

4. Core Data Processes

- Data Collection- Gather data from various sources, including and manual input.
- Data Storage-Store data in a centralized database, ensuring data integrity and security.
- Data Processing-Process data in real-time, generating insights and alerts as needed.
- Data Analysis-Analyze data to identify trends, optimize inventory levels, and improve supply chain efficiency.
- Data Reporting - Generate reports and dashboards, providing stakeholders with actionable insights and visibility into inventory performance.

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