1. NAME OF THE STUDENT: SIBIRAJ L A

2. SEAT NO: 246

3. PROJECT ID: 34

4. PROBLEM STATEMENT: INVENTORY MANAGEMENT

INTRODUCTION

The Inventory Management System (IMS) is designed to streamline the process of managing products, transfers, purchases, and requests within an organization. The system consists of three main roles: Manager, Head, and Member, each with specific responsibilities and permissions.

ROLES AND RESPONSIBILITIES

Manager: The Manager has full control over the inventory system. Responsibilities include adding products, transferring products between departments or locations, and purchasing products from suppliers.

Head: Heads are departmental authorities responsible for approving requests from Members within their respective areas. Different types of Heads include Department Heads, Special Labs Heads, and Transport Heads.

Member: Members are employees who interact with the inventory system to view products, make requests for new products, specify reasons, quantities, and budgets for requests.

SYSTEM WORKFLOW

Member Requests

Members can view the current inventory and submit requests for new products.

Requests must include details such as reasons for the request, desired quantity, and allocated budget.

Head Approval

Upon receiving a request, the system forwards it to the relevant Head for approval.

Heads review requests within their jurisdiction and provide feedback or approval. **Manager**

Action

If the Head approves the request, it is forwarded to the Manager for final action.

The Manager can then purchase the requested products, update inventory records, or transfer products as needed.

SYSTEM FEATURES

Product Management

Managers can add new products to the inventory system, including details such as product name, description, category, and initial quantity.

Transfer Management

Managers can initiate transfers of products between departments or locations within the organization.

Purchase Management

Managers can purchase products from suppliers based on requests and inventory needs. **Request**

Management

Members can submit requests for new products, providing necessary details for evaluation.

Approval Workflow

Requests follow an approval workflow where Heads review and approve requests within their authority.

Feedback Mechanism

Heads provide feedback on requests, guiding Members on appropriate requests and budget allocations.

SECURITY AND ACCESS CONTROL

Access to different system functionalities is controlled based on user roles.

Managers have full access to all system features.

Heads can approve requests within their respective departments or areas.

Members can view products, make requests, and track their request statuses.

CONCLUSION

The Inventory Management System streamlines product management, transfers, and purchase processes within the organization. By defining clear roles, establishing an approval workflow, and providing feedback mechanisms, the system ensures efficient inventory handling while maintaining budgetary control and accountability.

FLOW CHART

INVENTORY MANAGEMENT

TECHNOLOGIES   (MEVN)

REQUIREMENTS

SIGNIN / SIGNUP
REGISTRATION
DASHBOARD
INVENTORY/MEMBER/HEAD DASHBOARD
REQUESTING/ACCEPTION
REVIEWING
FEEDBACK
INVENTORY DASHBOARD
AVAILABILTIY/CHECK
ITEMS VIEW TABLE
AUTO FORM CORRECTION
PROFILE VIEW

MAP (FLOW)