Software Requirement Specification for Mess groceries stock maintenance

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Problem Statement	Mess groceries stock maintenance

1. Introduction

1.1. Purpose:

The purpose of this project is to develop a web-based portal for mess grocery stock management. This system will automate, maintain and streamline the entire grocery management process for our college mess, improving efficiency, time saving and reducing costs.

1.2. Scope of Project:

- This software system will serve as a portal for the Mess Manager and Admin. Individual mess managers update the grocery stock, request for the grocery and can return the grocery if the quality is not good.
- Admin or incharge of all messes have the ability to approve. Once it is approved, the admin can put purchase orders for the groceries that sub

messes need. Once the goods are entered, the admin needs to issue the goods to the sub messes separetely and the bill details, date also be maintained. Reports are also generated for PR, PO, goods consumed by sub messes, vendor cost, total purchase report.

2. System Overview:

2.1. Users:

1. Mess manager:

Individual mess managers update the grocery stock, request for the groceries, view the groceries received by the main store and return the groceries if the quality is not good.

2. Admin:

Purpose requests given by the sub messes need to approve. Once it is approved, the admin can put purchase orders for the groceries that sub messes need. Once the goods are entered, the admin needs to issue the goods to the sub messes separetely and the bill details, date also be maintained.

2.2. Features:

The portal will encompass the following functionalities:

• Indent Management:

- Raise indent entries for required groceries.
- Approval for submitted indents.

• Order Management:

• Raise purchase orders based on approved indents.

• Receiving Management:

• Record receipt of groceries with corresponding bill details.

o Track received groceries by sub-store.

• Issuance Management:

 Issue groceries to individual messes based on session and requirements.

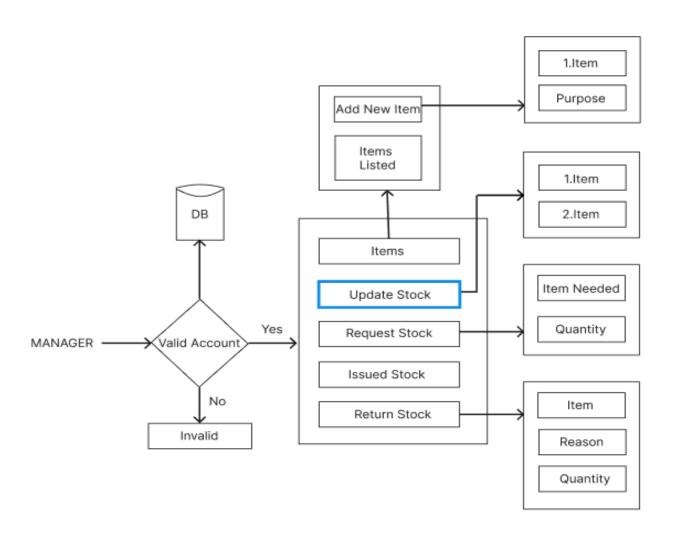
• Consumption Tracking:

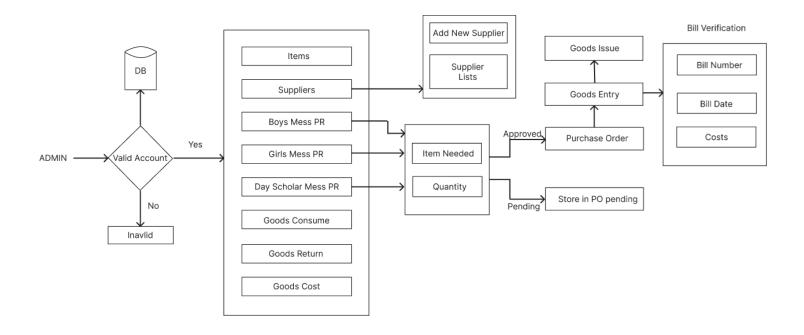
Track grocery consumption for each mess across sessions.

• Reporting:

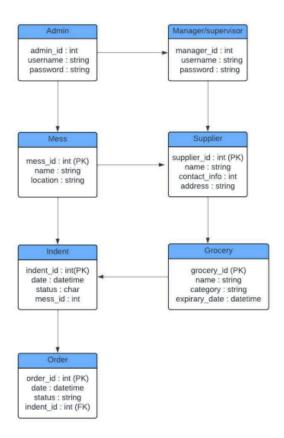
 Generate reports for stock maintenance, monthly summaries, cost analysis, and comparison charts for grocery prices.

MESS MANAGER INTERFACE





ER Diagram:



3. System Requirements Specification:

3.1 Functional Requirements:

• User Management:

- Mess manager can login
- Admins can login and see the goods that sub messes hold.

• Item and Supplier Updation:

- Both Manager and Admin can add new items to the list.
- o Only Admin can add a new supplier to that item.

• Purchase Request:

- Manager can add the item to the item list and put the purchase request to the admin.
- o If the goods are issued then it shows in the issued list page.

• Return Goods:

 If the issued goods are not good, the manager can return the item and the request will be shown to the admin.

• Admin Dashboard:

- Admins can view purchase requests of the individual mess.
- Applications can view the goods consumed by the individual sub messes.
- Admins can view returned items of all messes.
- Once the PR is approved, the admin can put the purchase order for the items requested.

• Goods Entry:

- After the goods entry admin wants to issue the goods to the messes.
- Bill number, costs, date and all other details are reported.

3.2. Non-Functional Requirements:

- Security: Implement role-based access control to ensure data confidentiality and integrity.
- Scalability: Design the system to accommodate future growth in terms of users and data volume.
- **Performance:** Optimize system performance to ensure smooth operation even during peak usage.
- **Usability:** Develop a user-friendly interface with intuitive navigation and clear instructions.
- Reliability:
- Ensure high availability and reliability of the system to minimize downtime.

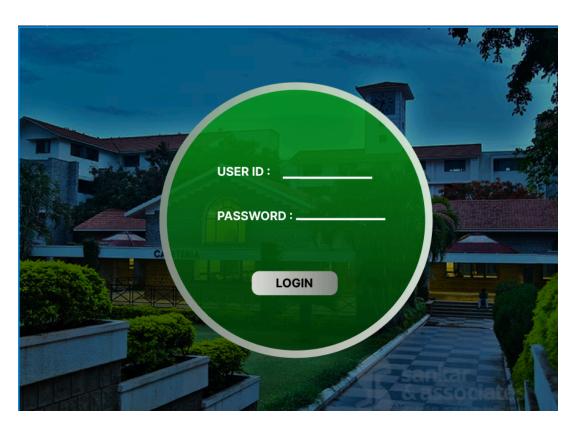
Stack:

Front End	React JS
Backend	SpringBoot(JAVA)
Data Base	MySQL

Prototype of the Project:

Login Page:





Manager Interface:

	Search here	Add Iter
ITEM		
UPDATE STOCK	• Rice	• Carrot
REQUEST STOCK	• Dal	Mushroom
	• Moongdal	• Chilli
ISSUED STOCK	• Brinjal	• Species
RETURN GOODS	• Potato	Beetroot
	Bread	• Pepper

ITEM UPDATE STOCK REQUEST STOCK ISSUED STOCK RETURN GOODS

ITEMS	QUANTITY
Rice	70 Kg
Dal	30 Kg
Moongdal	10 Kg
Carrot	5 Kg
Potato	7 Kg
Brinjal	5 Kg

Item: **Rice** ITEM **Total Quantity:** 70 Kg **UPDATE STOCK Quantity Used:** 50 Kg **REQUEST STOCK** Session: Lunch 29-04-24 **ISSUED STOCK** Date: **RETURN GOODS UPDATE**



ITEM

UPDATE STOCK

REQUEST STOCK

ISSUED STOCK

RETURN GOODS

Search here

ITEMS	QUANTITY	DATE
Rice	70 Kg	20-04-23
Dal	30 Kg	23-04-23
Moongdal	10 Kg	28-04-23
Carrot	5 Kg	04-05-24
Potato	7 Kg	01-08-23
Brinjal	5 Kg	12-05-24

Admin Interface:



ITEM SUPPLIER **BOYS PR ITEM NEEDED:** Rice **GIRLS PR** DAY SCHOLAR PR **QUANTITY:** 60 Kg **REMAINING GOODS PURCHASE ORDER CONSUMED GOODS RETURNED GOODS APPROVE** ISSUE COSTS

SUPPLIER BOYS PR GIRLS PR DAY SCHOLAR PR REMAINING GOODS PURCHASE ORDER CONSUMED GOODS RETURNED GOODS COSTS

BOYS	GIRLS	DS
70 Kg	60 Kg	70 Kg
30 Kg	40 Kg	35 Kg
10 Kg	8 Kg	10 Kg
5 Kg	7 Kg	6 Kg
7 Kg	10 Kg	7 Kg
5 Kg	6 Kg	7 Kg
	70 Kg 30 Kg 10 Kg 5 Kg 7 Kg	70 Kg 60 Kg 30 Kg 40 Kg 10 Kg 8 Kg 5 Kg 7 Kg 7 Kg 10 Kg

ITEM

SUPPLIER

BOYS PR

GIRLS PR

DAY SCHOLAR PR

REMAINING GOODS

PURCHASE ORDER

CONSUMED GOODS

RETURNED GOODS

COSTS

ITEM NEEDED:

Rice

QUANTITY:

60 Kg

SUPPLIER:

Vadivel

ORDER

ITEM

SUPPLIER

BOYS PR

GIRLS PR

DAY SCHOLAR PR

REMAINING GOODS

PURCHASE ORDER

CONSUMED GOODS

RETURNED GOODS

COSTS

ITEMS		BOY	s	(SIRLS			DS	
TTEMO	BF	Lun	Din	BF	Lun	Din	BF	Lun	Din
Rice		70 Kg	30 Kg	60 Kg	30 Kg	30 Kg	70 Kg	7 Kg	7 Kg
Dal	30 Kg	30 Kg	30 Kg	40 Kg	30 Kg	30 Kg	35 Kg	17 Kg	7 Kg
Moongdal	10 Kg	30 Kg	30 Kg	8 Kg	30 Kg	30 Kg	IO Kg	7 Kg	7 Kg
Carrot	5 Kg	3 Kg	3 Kg	7 Kg	30 Kg	30 Kg	16 Kg	7 Kg	7 Kg
Potato	7 Kg	4 Kg	3 Kg	10 Kg	30 Kg	30 Kg	7 Kg	7 Kg	7 Kg
Brinjal	5 Kg			6 Kg	30 Kg	30 Kg	7 Kg	7 Kg	7 Kg

ITEM

SUPPLIER

BOYS PR

GIRLS PR

DAY SCHOLAR PR

REMAINING GOODS

PURCHASE ORDER

CONSUMED GOODS

RETURNED GOODS

COSTS

Search here

ITEMS	воуѕ	GIRLS	DS
Rice	70 Kg	60 Kg	70 Kg
Dal	30 Kg	40 Kg	35 Kg
Moongdal	10 Kg	8 Kg	10 Kg
Carrot	5 Kg	7 Kg	6 Kg
Potato	7 Kg	10 Kg	7 Kg
Brinjal	5 Kg	6 Kg	7 Kg

ITEM

SUPPLIER

BOYS PR

GIRLS PR

DAY SCHOLAR PR

REMAINING GOODS

PURCHASE ORDER

CONSUMED GOODS

RETURNED GOODS

COSTS

ITEMS	QUANTITY	соѕт
Rice	70 Kg	Rs. 23000
Dal	30 Kg	Rs.20000
Moongdal	10 Kg	Rs.10000
Carrot	5 Kg	Rs.15000
Potato	7 Kg	Rs.5000
Brinjal	5 Kg	Rs.5000