Food Inventory System for IUT Cafeteria

CSE 4408
Group : 10% SAD

Lab - 05
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Project Overview

An automated inventory system is required to track daily usage and manage stock levels efficiently

Briefly

- Manage inventory digitally
- Automate stock tracking
- Generate Financial and Stock alert

Stake Holder Interviews : Inventory Staff

“This is a quote, words full of wisdom that can make the reader get inspired.”

Workloads

- Handle inventory and communication.
- Concerned with reporting, record-keeping, and stocklevels.

Pain points

- What features do users want?
- What fears or hesitations exist toward digital systems?

Objective

- Understand daily operations,
- Pain points with manual tracking

Stake Holder Interviews : Cafeteria Manager

“This is a quote, words full of wisdom that can make the reader get inspired.”

Workloads

- Handle stocks
- Concerned with issuing new stocks
- Communicate with vendors

Pain points

- What problems exist in the manual, paper-base process?
- Are the key issues previously identified still valid?

Objective

- Identify reporting needs
- Threshold setting preferences
- Decision making challenges.

Stake Holder Interviews : IUT IT Officer

“This is a quote, words full of wisdom that can make the reader get inspired.”

Workloads

- Integrate IUT database with the cafeteria system
- Keep existing data unaffected

Pain points

- What could go wrong?
- What are the Maintenance Overhead

Objective

- Assess integration feasibility with IUT database
- Security and infrastructure constraints.

Interview Module

Inventory Staff

Open-ended

Can you walk us through your daily inventory logging process?

Closed

Do you currently use any digital tools for stock tracking? (Yes/No)

Probe

What do you usually do when stock runs low?

Interview Module

Cafetaria Manager

Open-ended

How do you currently decide when to restock or reorder?

Closed

Do you currently receive any formal reports on stock usage?

Probe

How comfortable are you using online dashboards or report tools?

Outcome from Interviews

Inventory Staffs

- Often skip manual entry during busy hours.
- Rely on memory or verbal updates, leading to errors.
- Want a system that is simple, quick, and accessible from shared devices.
- Prefer clear, low-effort interfaces
- Expressed that alerts would reduce mistakes and ease pressure

Cafeteria Manager

- Wants regular inventory reports to make informed restocking decisions.
- Currently lacks formal tools for monitoring consumption trends.
- Prefers a dashboard
- Supports the system if it can improve efficiency

IUT IT Officer

- Emphasized the importance of secure integration with IUT's internal database.
- Recommends a read-only access mode to prevent unintended modifications.
- Notes limited technical support availability, prefers a system that is easy to maintain.
- Concerned with data validation and safe syncing across platforms.

JAD

Top Features Required

Simple daily usage logging interface

Low stock alerts via notification or dashboard.

Language support (Bangla labels/tooltips)

Top Features Required

Ability to set and update threshold levels

Downloadable inventory reports

Dashboard for overview of current stock and trends

Top Features Required

Support for secure login/authentication

Minimal technical upkeep requirements

Logging for data changes and system activity

Role of Story Telling

These stories highlighted pain points around last-minute realizations, communication gaps, and stress under pressure, adding emotional and practical insight into system requirements

JAD

While a full JAD session may be difficult due to cafeteria staff availability, a mini JAD workshop with key staff and the manager could be feasible and valuable.

It would help

- align perspectives
- prioritize features
- review early mockups

Thanks!

Do you have any questions?
Feel free to ask now

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