

Food Inventory System for IUT Cafeteria

CSE 4408

Group : 10% SAD

Lab - 05

DATE : 24.06.2025



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 stock levels.

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

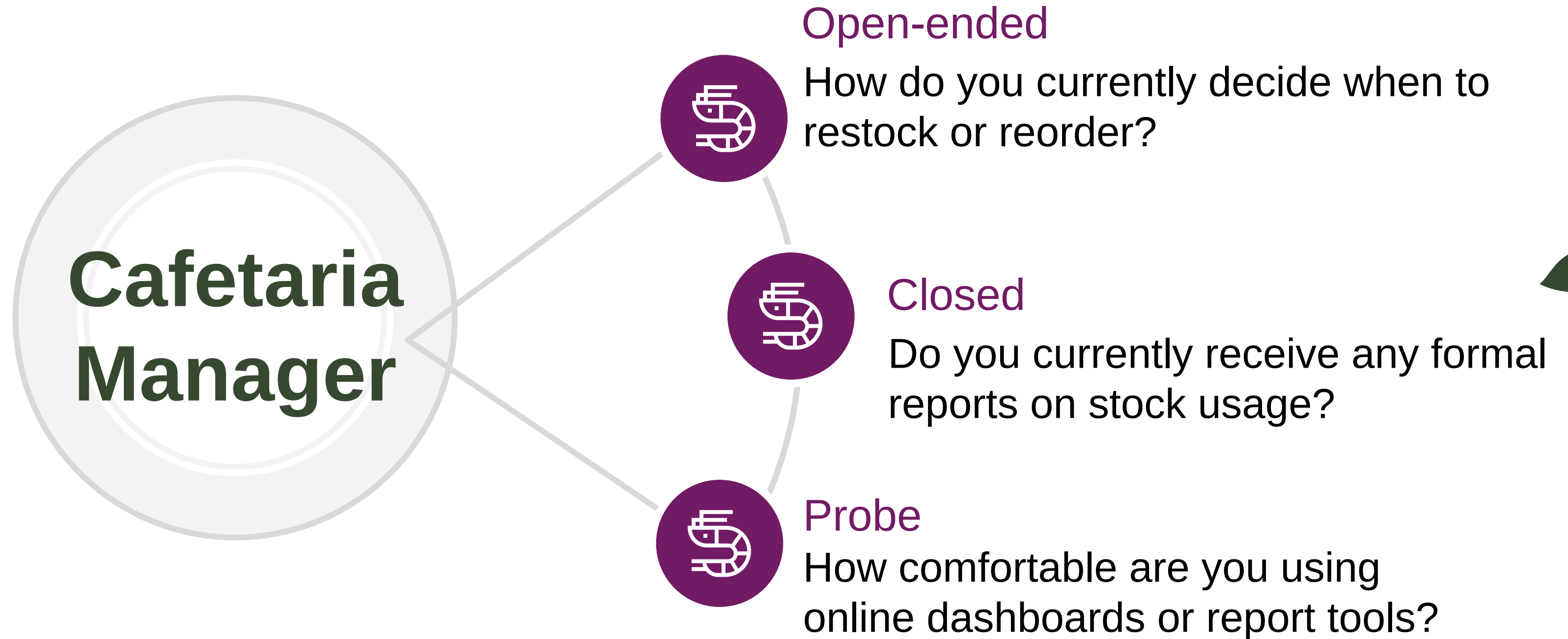
Objective

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

Interview Module



Interview Module



Outcome from Interviews



Inventory Staffs

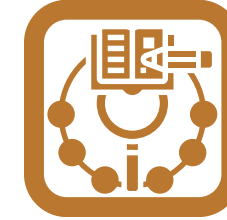
- Often skip manual entry during busy hours.
- Rely on memory or verbal updates, leading to errors.
- Want a system that is simple, quick, and accessible from shared devices.
- Prefer clear, low-effort interfaces
- Expressed that alerts would reduce mistakes and ease pressure

JAD



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.

Top Features Required

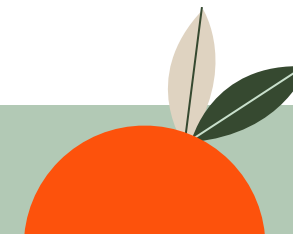
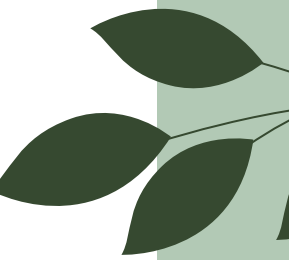
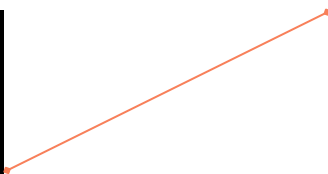


Simple daily usage
logging interface



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

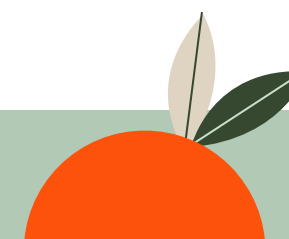
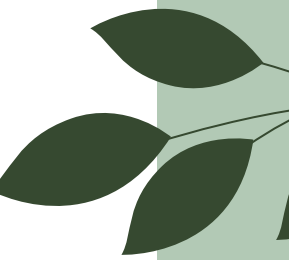
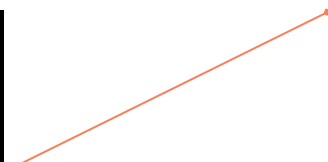


Support for secure
login/authentication

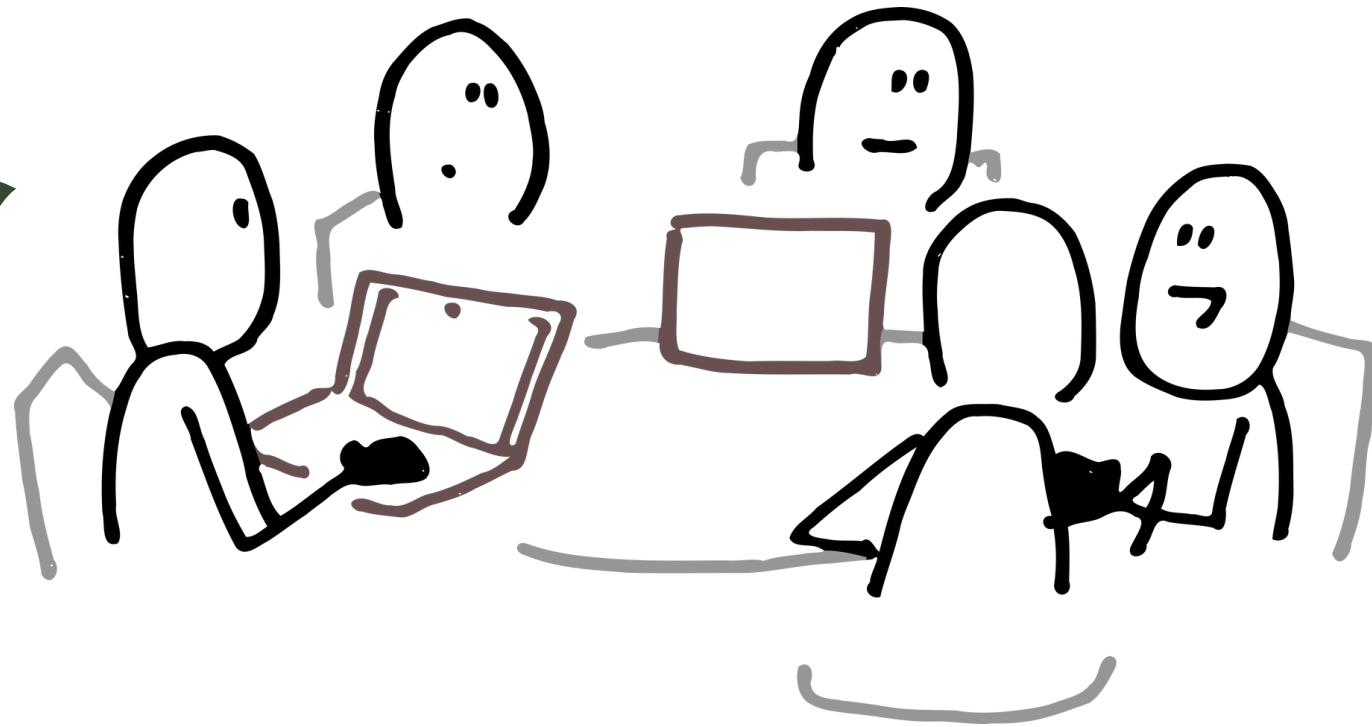


Minimal technical
upkeep requirements

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

Contributors



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