

Project – Business Management Software

(GROUP 27)

DILENDRA (190101034)

EKESHWAR (190101036)

KSHITIJ (190101046)

VIVEK (190101100)

Problem statement

Most of the small businesses and stores have the problem of not being able to maintain the business properly. Everything from sales to accounting is scattered and this leads to confusion and a major loss of efficiency. They can't effectively maintain the stocks and future demand of their products or services.

Contextual Inquiry to collect usability requirement:

During Contextual Inquiry, small shops, Kirana and utility were observed

The tools that were helpful in this process were:

Manual Observation (Active Mode of CI)

Notes taken on Pen Paper and important doubts related to observations were asked

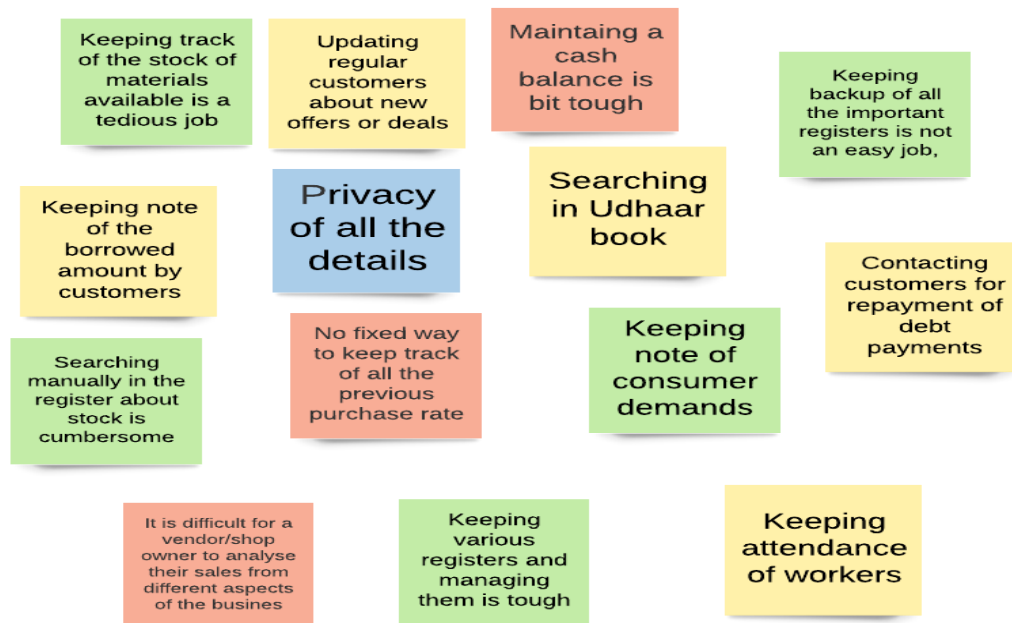
We got a lot of observed data from our CI.

For analysis of these observed data, we will use five stages of the Affinity Diagram Method

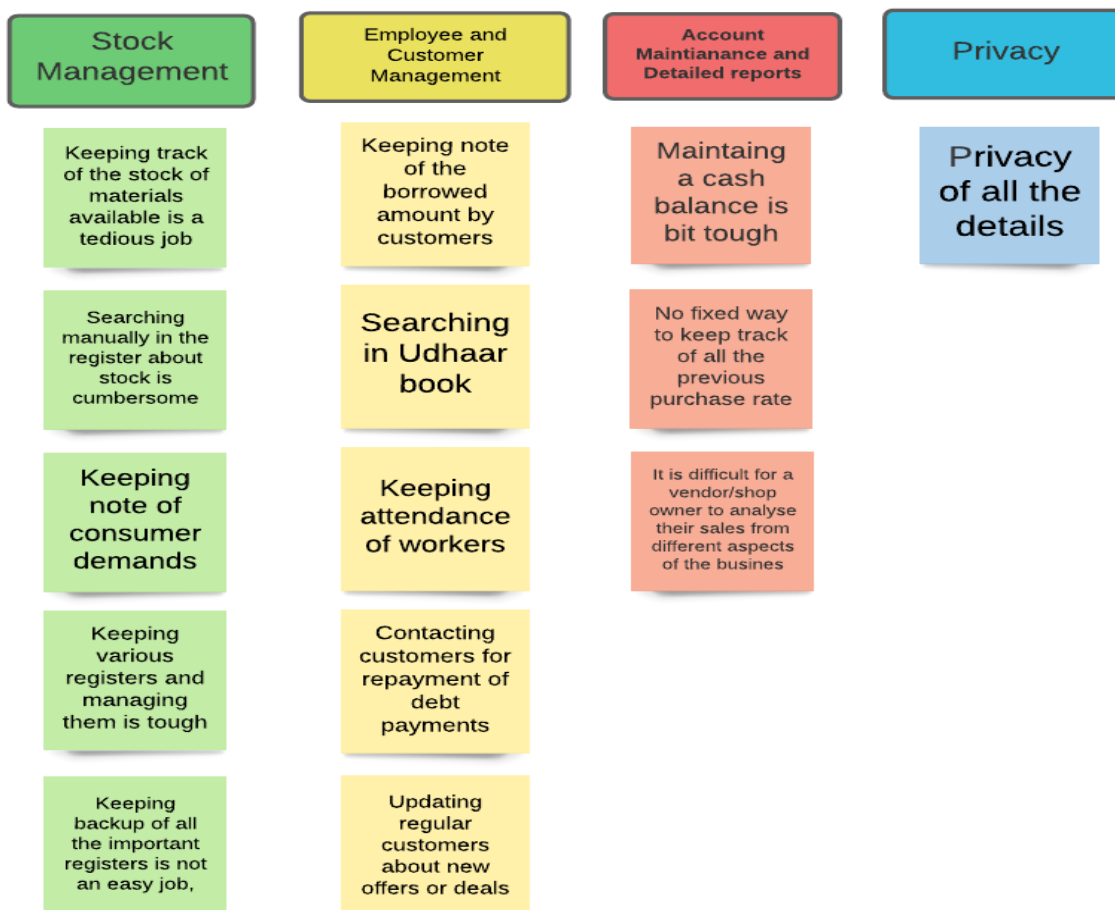
Step 1&2: Generate and display ideas



Step 3: Sorting Ideas into groups



Step 4&5: Header to groups and final drawing

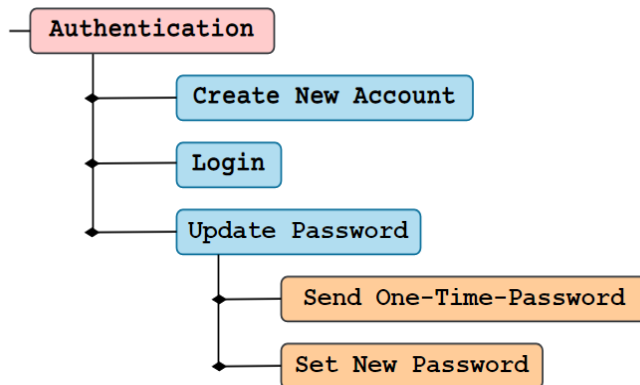


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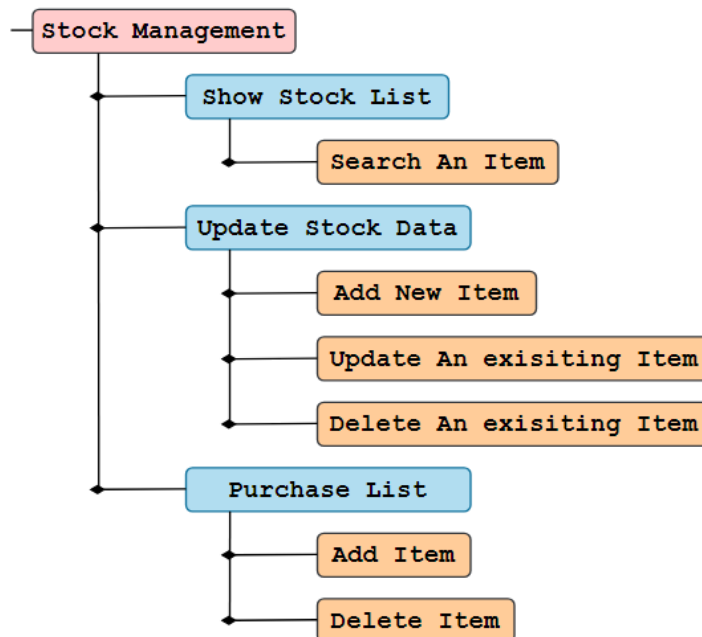
- “For maintaining privacy, there should be a provision for authentication. So that only authorised people get access to the data. This will increase security.”
- “There should be a provision for “search” so that required data can be easily accessed by the user.”

Functional Requirements and Hierarchical Depiction :-

- Requirement for “authentication” – for a user to access the app features
 - Requirement to “create account”
 - Requirement to “log in”
 - Requirement for “account management”

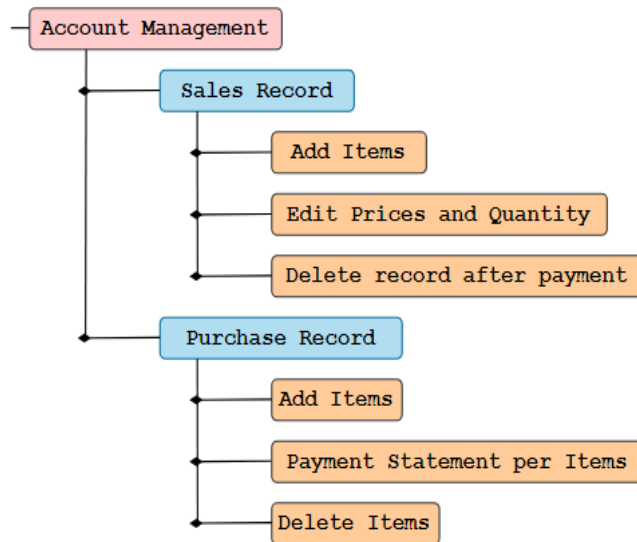


- Requirement for “stock management”
 - Requirement for “stock list”
 - Requirement for “Show stock list”
 - Requirement for “updating stock data”
 - Requirement for “adding new item”
 - Requirement for “deleting an existing item”
 - Requirement for “searching an item”
 - Showing previous rates at which purchased
 - Requirement for “To be brought list”

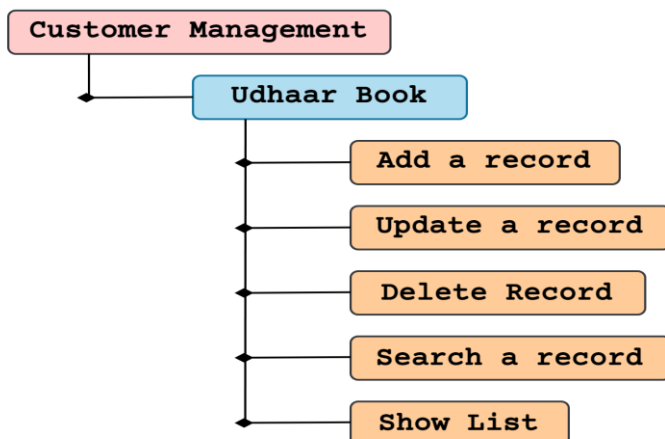


- Requirement for “Account Management” - for maintaining account
 - Requirement for “Sales record”
 - Requirement for “Add items ”
 - Requirement for “Edit prices and Quantity”
 - Requirement for “Deleting record after payment”

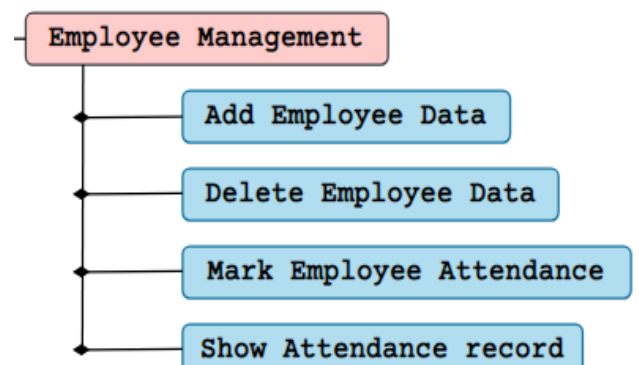
- Requirement for “Purchase record”
 - Requirement for “Add items”
 - Requirement for “Payment statement per items”
 - Requirement for “Deleting items list”



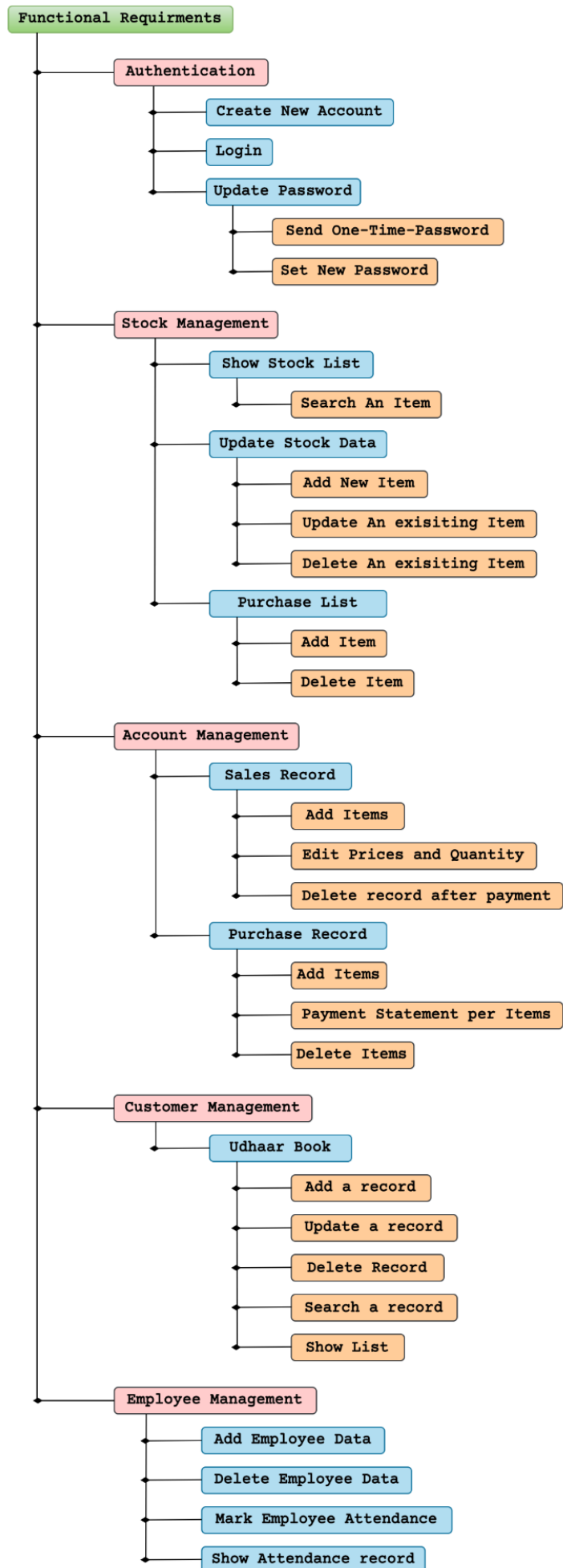
- Requirement for “Customer management”
 - Requirement for “Udhaar Book”
 - Requirement for “Adding a record”
 - Requirement for “Updating a record”
 - Requirement for “Deleting a record”
 - Requirement for “Searching a record”
 - Requirement for “Showing a list”



- Requirement for “Employee management”
 - Requirement for “Adding employee”
 - Requirement for “Deleting employee”
 - Requirement for “Marking attendance”
 - Requirement for “Showing attendance record”



Functional Requirements Hierarchy:--



Converting to SRS:-

R.1 Authentication

R.1.1 Create New Account

Input: User Information

Output: Validation Prompt Message

Description: Create a new account based on the provided information and display account creation message

R.1.2 Login

Input: Account details

Output: Login status

Description: Verify entered details and give access to user data on success

R.1.3 Update Password

R.1.3.1 Send One-Time-Password

Input: User Email

Output: One-Time-Password

Description: Send an One-Time-Password to user's email

R.1.3.2 Set New Password

Input: One-Time-Password, New Password

Output: Password change message

Description: Verify One-Time-Password, new password entered and the password is updated

R.2 Stock Management

R.2.1 Show Stock list

Input: (On Touch)

Output: Stock List

Description: On touch shows the items present in stock list

R.2.1.1 Search an Item

Input: Stock Item Name

Output: Stock Item data

Description: Searches in the stock item list for given data and shows if present

R.2.2 Update Stock Data

R.2.2.1 Add New Item

Input: Stock Item Name, Item Quantity, Item Price

Output: Add success message

Description: Adds the new item to item list

R.2.2.2 Update an Existing Item

Input: Stock Item Name, New Quantity, New Price

Output: Update success message

Description: Update the existing record with provided new value

R.2.2.3 Delete an Existing Item

Input: Stock Item Name

Output: Delete success message

Description: Delete an existing item from the stock list

R.2.3 Purchase List

Input: (On Touch)

Output: Purchase List

Description: On touch shows the items present in stock purchase list

R.2.3.1 Add Item

Input: Stock Item Name, Item Quantity

Output: Add success message

Description: Adds the new item to the purchase stock list

R.2.3.2 Delete Item

Input: Stock Item Name

Output: Delete success message

Description: Delete an existing item from the purchase stock list

R.3 Account Management

R.3.1 Sales Record

R.3.1.1 Add items

Input: Item Name and Quantity

Output: Success message.

Description: Add items of each sales

R.3.1.2 Edit prices and Quantity

Input: Item Name

Output: Changed cost according to quantity.

Description: Change or update the prices and quantity of items after each sales

R.3.1.3 Delete items after payment

Input: Item Name

Output: Delete success message

Description: Delete an existing item from the sales list at the end of the day

R.3.2 Purchase Record

R.3.2.1 Add items

Input: Item Name and Quantity

Output: Success message.

Description: Add items of each purchases after confirmation and cross checking

R.3.2.2 Payment statement per items

Input: Item Name

Output: Payment statement with yes or no.

Description: Provide payment statement for each item according to the purchases

R.3.2.3 Delete items after payment

Input: Item Name

Output: Delete success message

Description: Delete an existing item from the purchase list at the end of the deal

R.4 Customer Management

R.4.1 Udhaar Book

R.4.1.1 Add a record

Input: Customer Name, Amount, Phone number

Output: Add success message

Description: Add a new customer's debt record

R.4.1.2 Update a record

Input: Customer Name, New Amount

Output: Update success verdict

Description: Updates the previous record of the customer

R.4.1.3 Delete a record

Input: Customer name

Output: Success message of delete

Description: Delete the name of customer after all payments and deal

R.4.1.4 Search a Record

Input: Customer Name

Output: Data of Customer

Description: Provide customer data according to search

R.4.1.5 Show a List

Input: (On Touch)

Output: Debt record list

Description: Show the debt record list

R.5 Employee Management

R.5.1 Add Employee Data

Input: Employee Name, Father's name, Age, Phone number, Address

Output: Add success message

Description: Add the information provided to employee record

R.5.2 Delete Employee Data

Input: Employee Name

Output: Delete success message

Description: Delete the given employee record

R.5.3 Mark Employee Attendance

Input: Employee Name

Output: Attendance recorded/removed verdict

Description: Mark the attendance of employee if already marked then
unmark it

R.5.4 Show attendance Record

Input: Employee Name

Output: Attendance report of employee

Description: Show the attendance record of employee

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