PROJECT - I (BCA 581)

2024 -2025

SustainLink

(Surplus finds Purpose)

Under the supervision
of SMITHA VINOD

Associate Professor

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Introduction

SustainLink is a visionary project designed to combat waste and enhance community welfare by connecting individuals in need with stores holding near-expiry perishable products. This inclusive platform goes beyond food items, encompassing a wide range of perishable goods. By efficiently tracking expiration dates and fostering real-time connections, SustainLink aims to create a collaborative ecosystem where surplus essentials find purpose, benefitting both businesses and communities. Products can be either donated or bought as per needs of the supplier and buyer.

When fresh goods arrive, the app records their expiration dates. As soon as food is close to the expiry, the app alerts local charities who can then pick it up for reuse. This simple process helps stores manage inventory, prevents waste, and supports the community.

Title: SustainLink

Reshaping excess into purpose, forging connections between businesses and communities for a sustainable, impactful future.

Objectives

- **Combat Waste:** The primary objective of SustainLink is to address and combat waste, particularly the wastage of near-expiry perishable products. By connecting individuals in need with stores holding such products, the project aims to prevent unnecessary disposal and contribute to reducing overall waste.
- **Efficient Expiration Date Tracking:** The project aims to create an efficient system for tracking expiration dates of perishable goods. This involves the timely recording of expiration dates when fresh goods arrive and sending alerts to local charities as products approach their expiry, enabling swift action to prevent waste.
- **Real-time Connections:** SustainLink focuses on fostering real-time connections between stores and local charities. This immediacy in communication ensures that surplus goods can be quickly identified, collected, and redistributed, minimizing the time between the availability of surplus items and their utilization.

Objectives

- **Inventory Management for Stores:** The project benefits businesses by helping them manage their inventory effectively. By providing timely alerts and facilitating the redistribution of surplus goods, stores can optimize their stock levels, reduce waste, and contribute to sustainable business practices.

- **Optimize Resource Utilization:** By facilitating the reuse of near-expiry perishable products, SustainLink contributes to the optimization of resource utilization. This involves ensuring that resources are utilized to their fullest potential, reducing unnecessary waste and promoting a more sustainable approach to consumption.

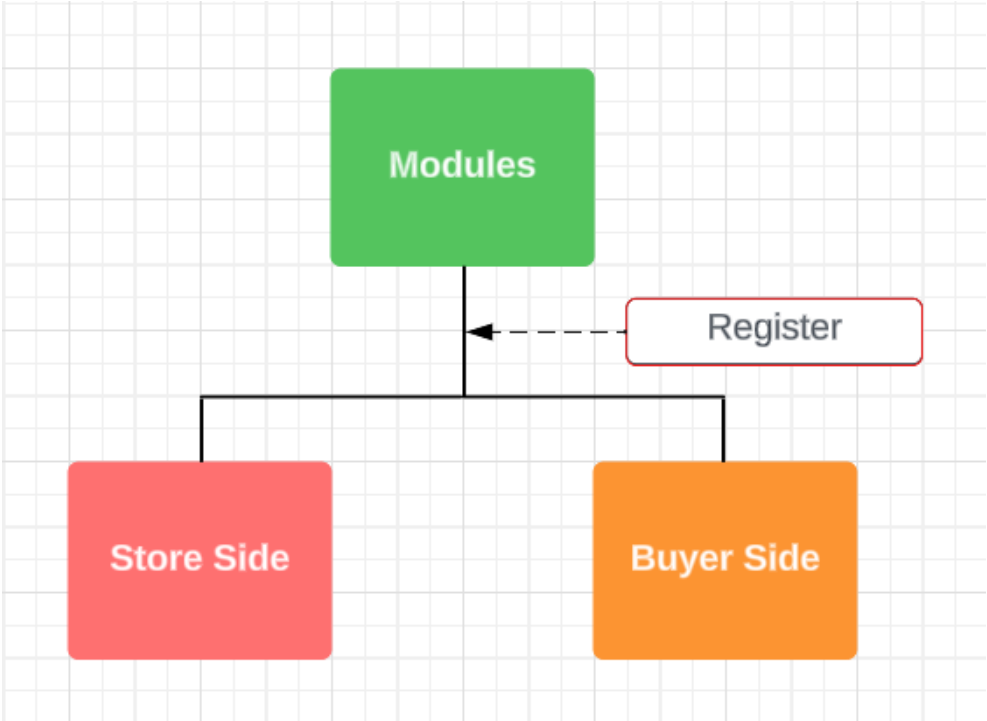
Existing Systems

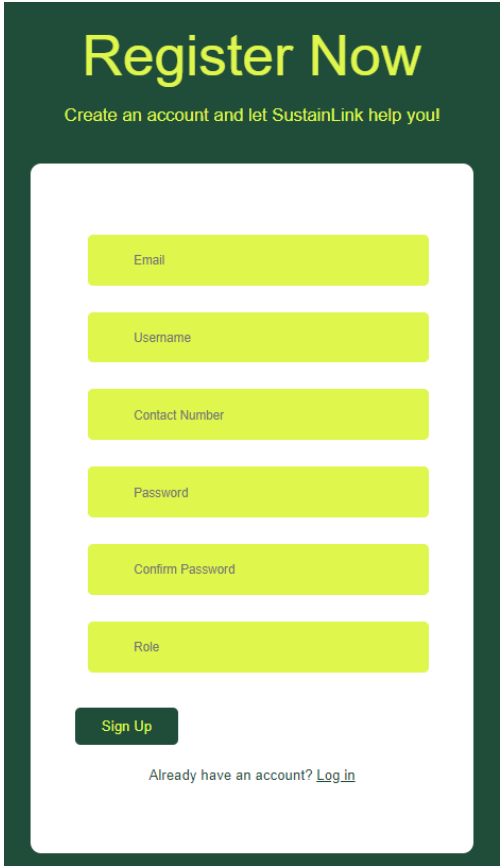
1. **Remedico:** This platform uses AI to predict and optimize medicine stocks in healthcare facilities, reducing pharmaceutical waste and improving resource allocation.
2. **Feeding India:** This non-profit distributes surplus food from grocery stores, restaurants, and other sources to people in need. They have a network of volunteers and distribution centres across India, demonstrating community-driven food rescue.
3. **Give and Take India:** This platform connects users for sharing unwanted items, including non-food perishables, fostering a community-based approach to resource reuse.
4. **ShareFood:** This India-based app allows users to filter near-expiry food by location, price, and category. Users can also see the distance to the store, making it convenient for them to find and rescue food near them. (Similar to your focus on geographic filtering and convenience)

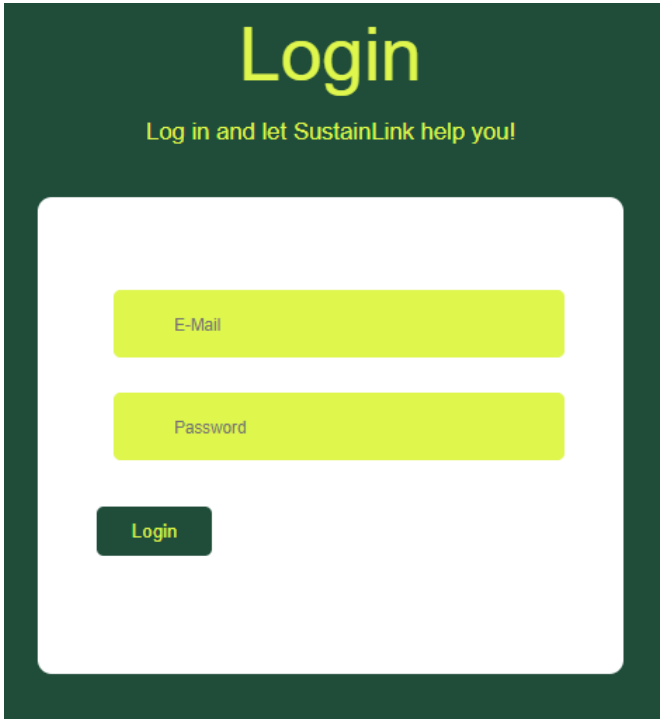
Limitations

1. **Lack of Technology**
2. **Limited to one category of products -** Food/Medicine/Skincare
3. **Either Expiry Tracking or Donations**

Modules




Register Now
Create an account and let SustainLink help you!
Email
Username
Contact Number
Password
Confirm Password
Role
Sign Up
Already have an account? Log in


Login
Log in and let SustainLink help you!
E-Mail
Password
Login

Scan Groceries

Easy and fast! Add a new product to your store effortlessly by scanning a QR code.

Scan

Manual-Input of Groceries

No QR-Code? Add a new product to your store by entering all the necessary details manually.

Add Product

Manual Input of Groceries

Name

Anti-Frizz Shampoo

Brand

Ashley Jow

Expiry Date 06-01-202

Quantity 700

Type

Hair Care

Product Image Choose File product.png

Description

A sulphate free shampoo for frizz free hair.

Add Item

Puff Corns

Expiry Date:
2025-03-03

Mist Pack

Expiry Date:
2025-01-02
Donated

Bread Loaf

Expiry Date:
2024-05-03
Donated

Candies

Expiry Date:
2024-05-01
Donated

Shampoo

Expiry Date:
2024-05-05
Donated

Orange Juice

Expiry Date:
2024-05-05

Requests Sent

Store Name - Grocery House

Product - Candies

Status - Confirmed

Req Quantity: 200

Store Name - Akshita

Product - Shower Gel

Status - Confirmed

Req Quantity: 100

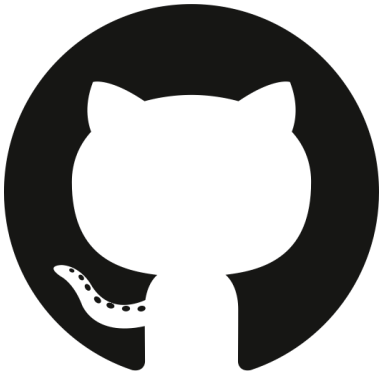
Store Name - Store 1

Product - Orange Juice

Status - Requested

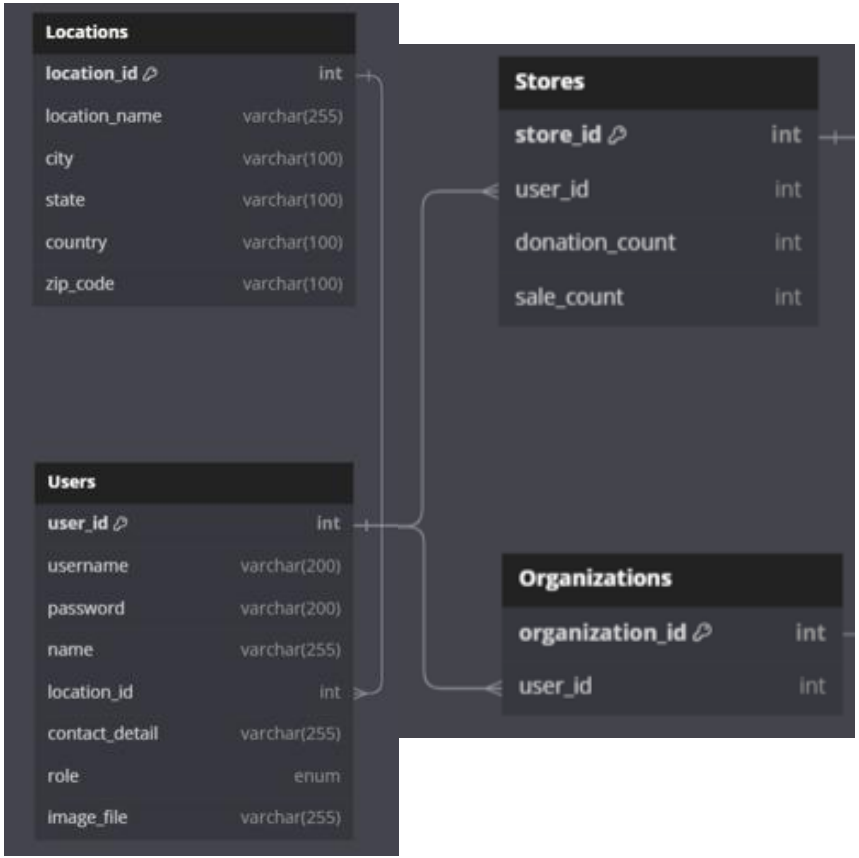
Req Quantity: 150

Backend Technologies

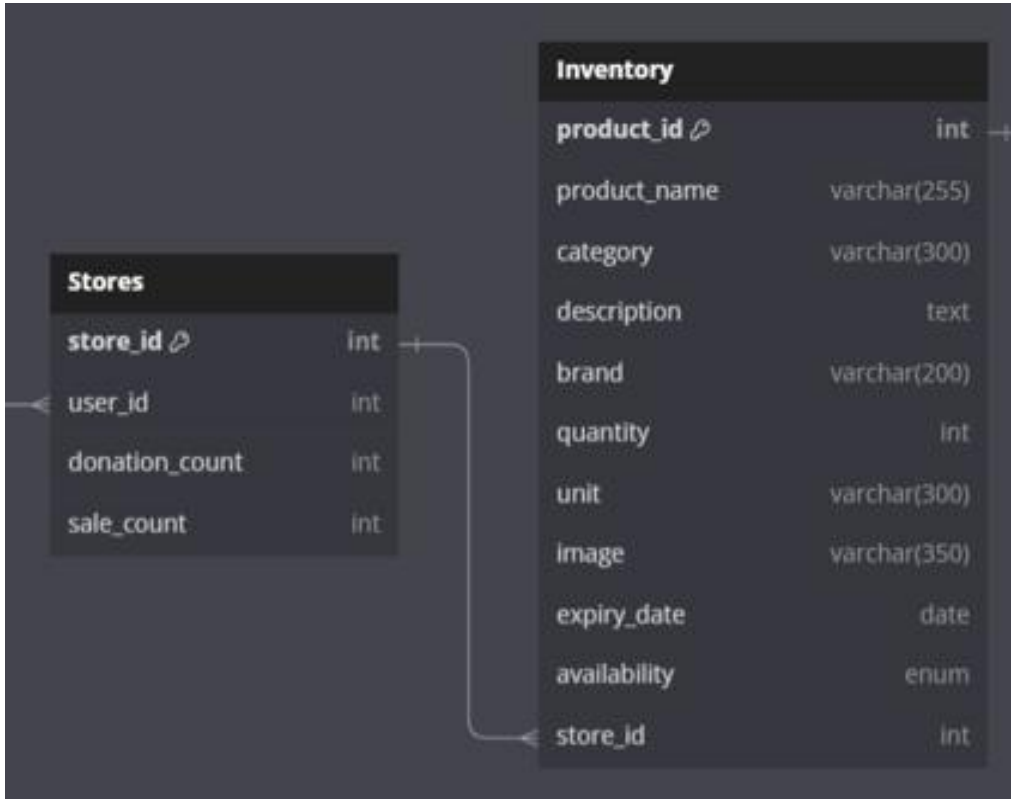


Flask

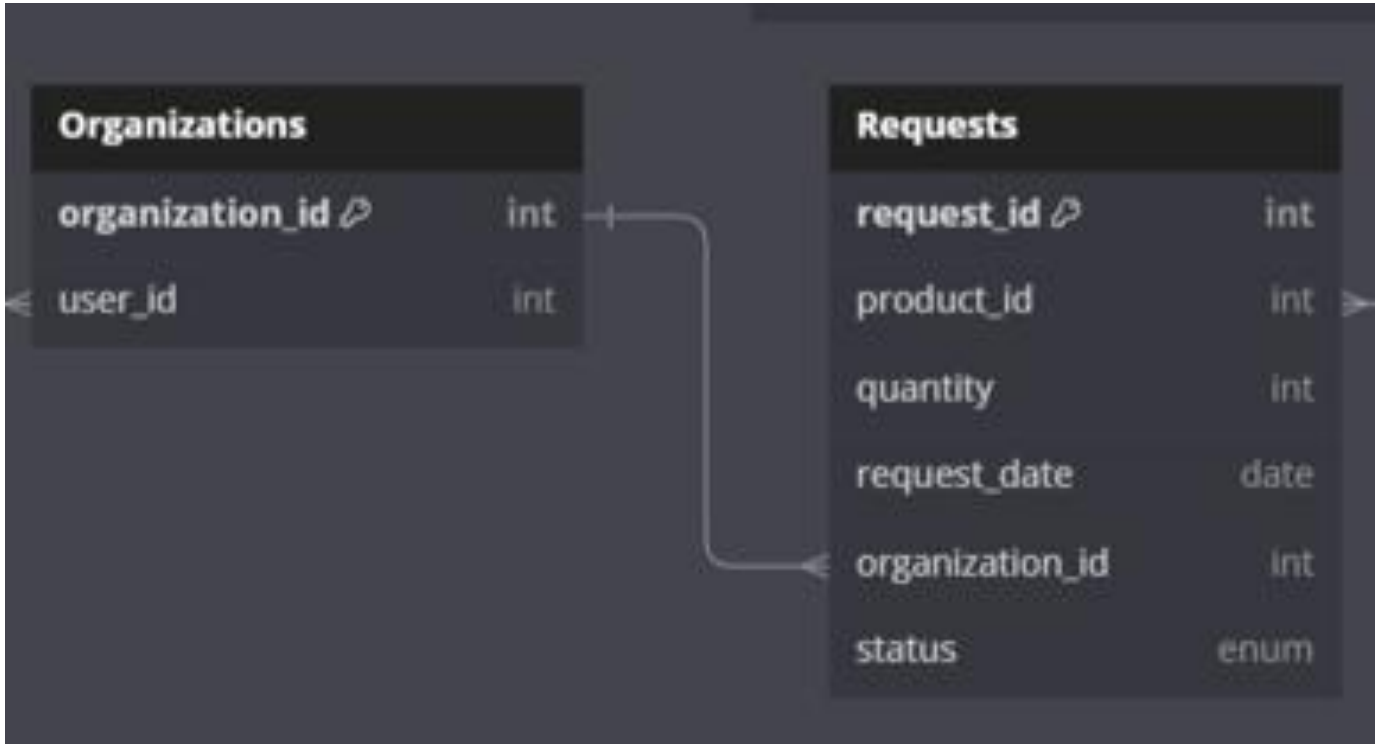
User Database



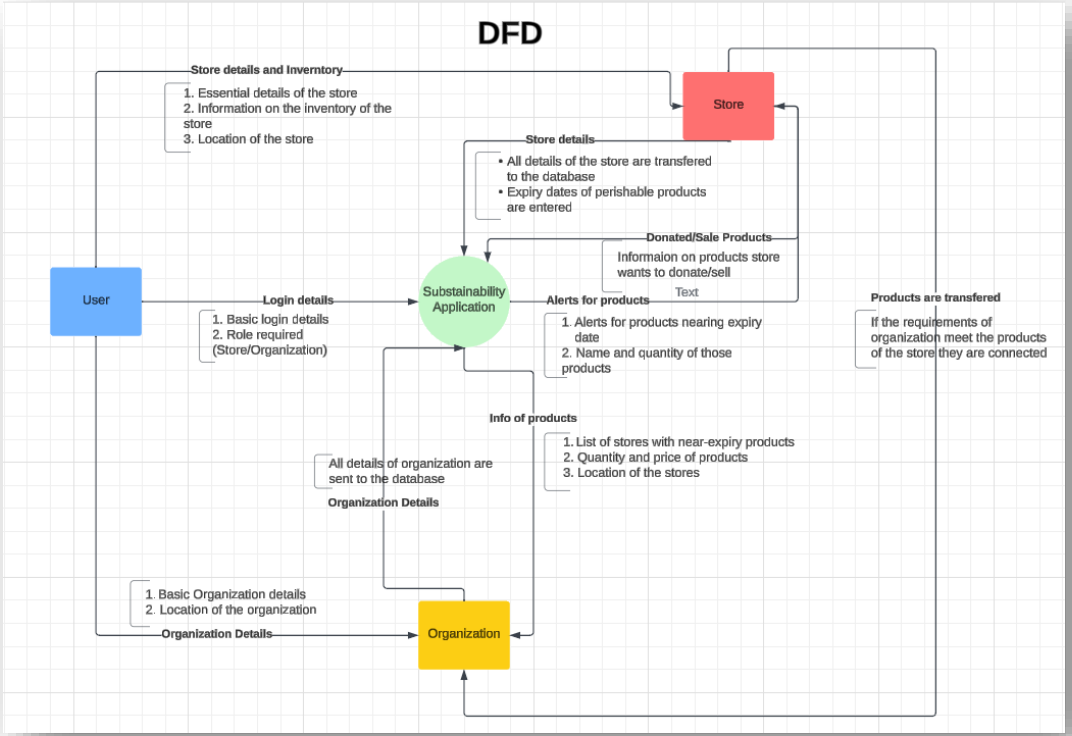
Store Database



Organization Database



Data Flow Diagram



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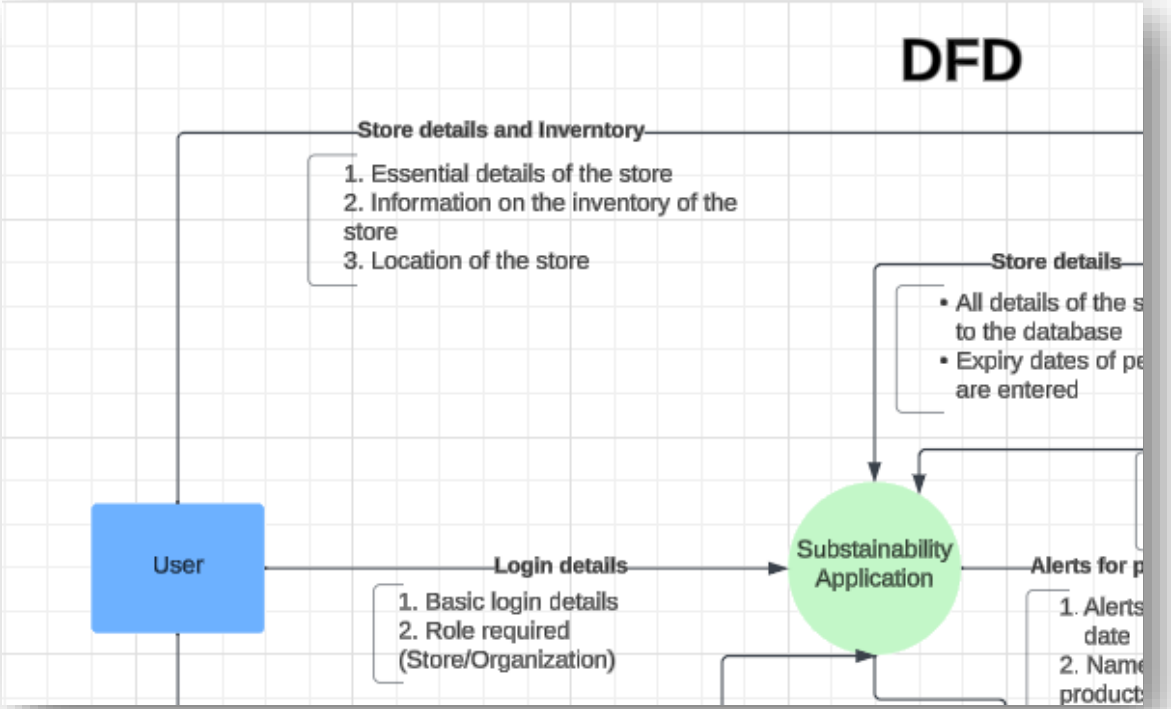

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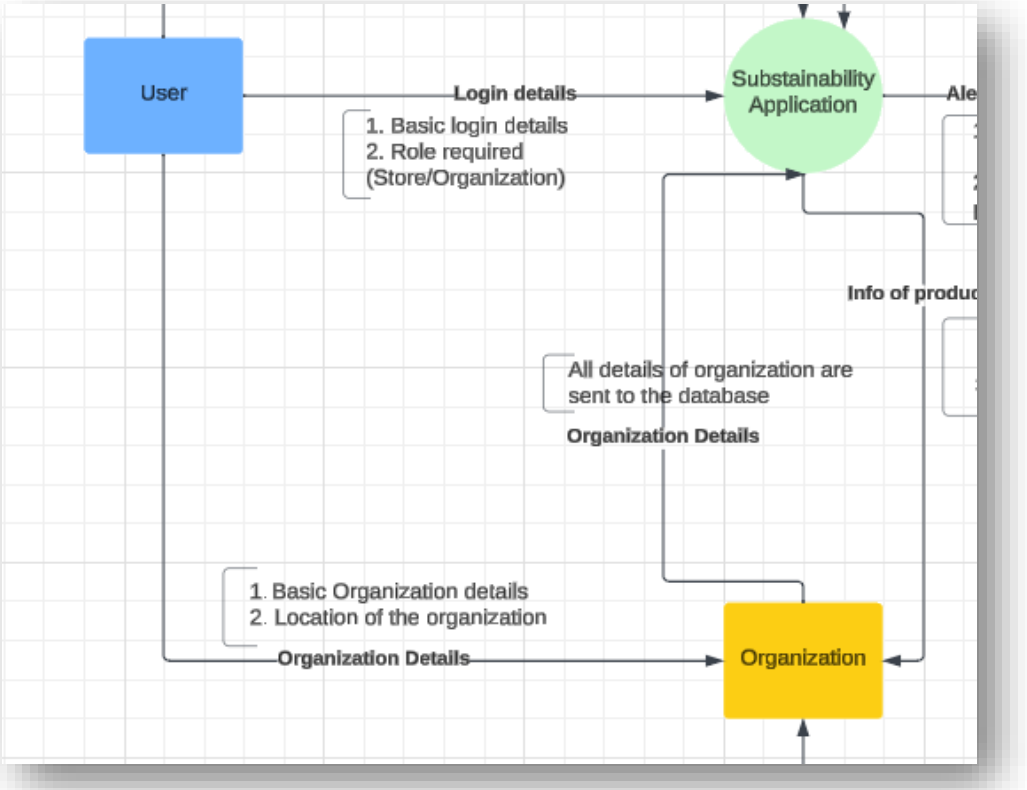

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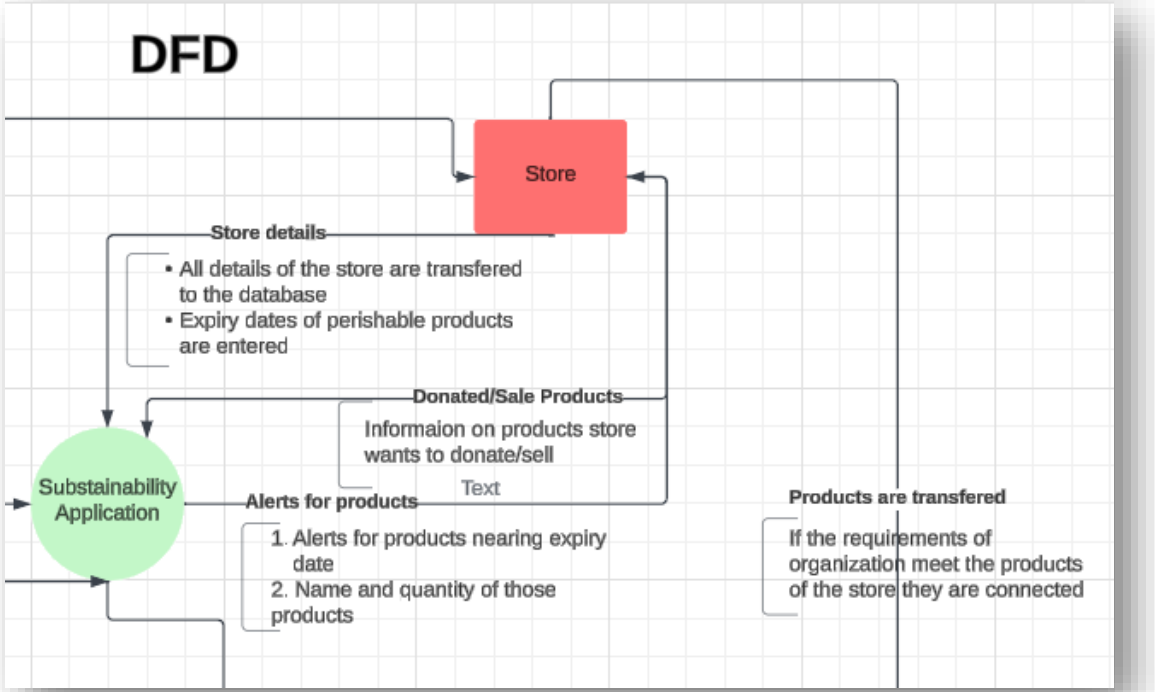

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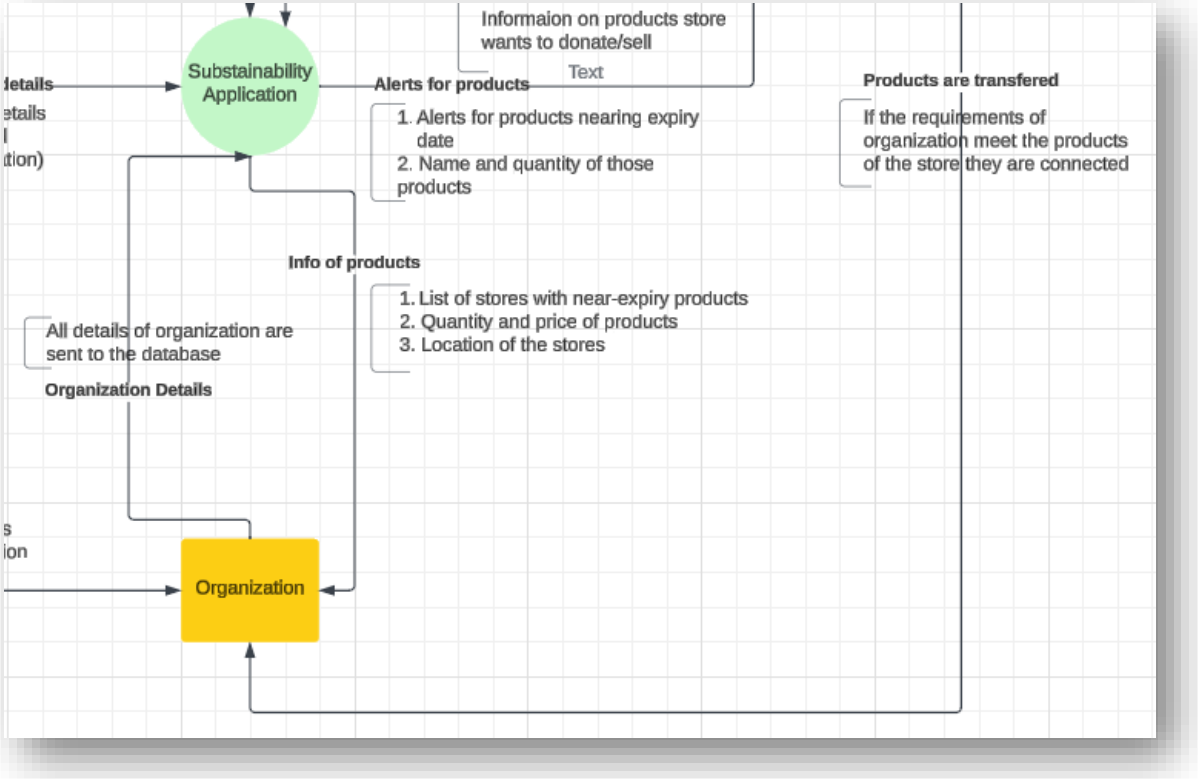

How will we upgrade?

Thank You!!