

Project1 - Flora

Problem Description:

In Karnataka, India, small floriculture businesses are a key source of income for many households. Every day, a variety of **products** such as **White Jasmine, Pink Jasmine, Kakda Jasmine, and Crossandra** are harvested, **bundled**, and **sold** to **intermediaries**. These intermediaries play a role in transporting the flowers through a chain of middlemen before they eventually reach the flower market.

Issues:

1. **Lack of Expense Tracking:** Many floriculture businesses struggle with profitability due to the absence of an efficient **expense** tracking system. Expenses for **pesticides, fertilizers (like NPK), labor**, and other inputs are often **unmonitored**, resulting in higher costs and limited profits.
2. **No Access to Real-Time Base Market Pricing:** The Karnataka floriculture authority sets the **daily base market price** of flowers at noon. However, many florists don't receive this critical information until the next day through newspapers, WhatsApp groups, or word of mouth.
3. **Lengthy Supply Chain:** A complex supply chain involving multiple middlemen not only increases the time it takes for flowers to reach the market but also impacts the quality of the product. Additionally, **farmers'** earnings are reduced due to commissions taken at each step of the supply chain.

Rules:

- Business owners should be able to login to website and input their expense.
- Owners should be able to access historical data.
- Export feature should be available to **export** data into **reports** (Pdf, Excel etc)
- Business owners should be able to track daily, weekly, monthly **sales**.
- Provide the ability for businesses to **track** the number of **flowers in stock**.
- Notify businesses when stock is low on certain products.
- Sellers should be able to view and **manage** **customer details, purchase history, and preferences**
- **Customers** should be able to **search** **products** by category, price, and availability.
- Use geolocation to show nearby flower vendors for faster delivery or pickup.
- **Farmers** should be able to **view** the **market value** of flowers set by Floriculture authority on a given day.
- Customers should not be connected to the vendors that dont have stock available.
- The selling price of a unit product should not be below market base price.
- 4 garlands are bundled into one unit.
- Ensure that orders greater than stock in hand are not accepted. For orders that are received and not shipped, requested quantity should be **reserved**.
- Customers should be able to place **orders** online.

Nouns:

- Products
- White Jasmine, Pink Jasmine, Crossandra
- Intermediaries
- Expense
- Pesticides
- Fertilizer
- Labor
- Customers
- Farmers
- Daily base market Price
- Order

Verbs:

- Bundled
- Sold
- Monitored
- Export
- Track
- Manage
- Search
- View
- Reserve

Categorize Nouns:

- Products:
 - Name: {White Jasmine, Pink Jasmine, Crossandra}
- Expense:
 - Category: {Machinery and Tools, One time Installation, Fertilizers and Soil Amendments, Pesticides and Herbicides, Labor Cost, Water and Electricity}
 - Amount
 - Date
- Customer:
 - Name
 - Email
 - Contact
 - Address
 - Latitude
 - Longitude

- Farmer:
 - Name
 - Email
 - Contact
 - Address
 - Latitude
 - Longitude
- Order:
 - Product
 - Qty
 - Amount
- Base Market Price
 - Date
 - Price
 - Product