

## Project1 - Jasmine Business Expense Tracking and Marketplace

### **Problem Description:**

In Karnataka, India, small floriculture businesses are a key source of income for many households. Every day, a variety of **flowers** 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 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.
- **Business owners** 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 don't 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**.