

## 1. Farmers (Produce Suppliers)

**Role:** Farmers are the producers and the starting point of the supply chain. Their primary function is to manage the produce they have available and fulfill orders placed by customers.

### Core Features & Actions:

- **Profile Management:** Register an account, manage farm details, and set up payment information.
- **Inventory Management:** List new produce in the system, including details like type, quantity, quality grade, and price. They can update availability in real-time as stock changes.
- **Order Fulfillment:** Receive and view new order requests assigned to them. They acknowledge orders and prepare them for pickup by distributors.
- **Communication:** Receive and respond to comments or custom requests from restaurants regarding specific batches.

### Primary Microservice Interactions:

- They log in via the **API Gateway**, which authenticates them using the **User Service**.
- All actions related to listing and updating produce are handled by the **Product Service**.
- They view incoming purchase requests managed by the **Order Service**.
- They receive alerts about new orders or pickups via the **Notification Service**.



