

# GREEN GROCERY

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# Abstract

This platform offers a marketplace connecting customers with local farmers for fresh fruit and vegetable sales, featuring a machine learning-based quality detection system to ensure high-quality produce. Customers can browse, filter, and purchase items with ease, track orders, and receive real-time delivery updates. Farmers can manage inventory, update listings, and process orders through a supplier portal, while delivery personnel handle assigned routes and update statuses for timely delivery. The admin portal allows for platform management, user control, and inventory tracking. Machine learning enhances trust and quality, creating a reliable, streamlined marketplace for fresh produce.





# 02

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## Users



# USERS



❖ Customer



❖ Farmer



❖ Admin



❖ Delivery boy



03

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# Modules





# List of modules

## ❖ **Customer Portal:**




- User Registration and Login: Securely create accounts and log in to the platform.
  - Product Browsing and Search Functionality: Explore a wide range of fruits and vegetables using filters.
  - Shopping Cart and Checkout Process: Add items to the cart and complete the purchase securely.
  - Order Tracking and Delivery: View order history and track delivery status.
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## ❖ **Supplier Portal:**

- Registration and Login: Farmers can create accounts and log in to manage their profiles.
- Inventory Management: List, update, and remove products from their inventory.
- Order Management: View and accept incoming orders from customers.
- Add Product: Easily update or remove products from their listings.




## ❖ **Delivery Management Portal:**

- Login: Delivery personnel can access their accounts securely.
  - View and Manage Delivery Assignments: Check assigned deliveries and their details.
  - Delivery Tracking and Status Updates: Update the status of deliveries in real-time.
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## ❖ Admin Portal:

- User Management and Access Control: Manage customer and supplier accounts and control access levels.
  - Track Stock Level: Monitor inventory levels across the platform.
  - Price Chart and Comparison: Analyse product pricing for competitive analysis.
  - Manage Payment Details: Oversee payment processing and transaction records.
  - Add Categories, Subcategories, and Product Names: Maintain organized product listings.
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# 04

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## Project Flow



### Login into your account

Email Address

Password

[Forgot password](#)

Login

Don't have an account? [Register here](#)



Figure 1: Login Page



Figure 2: Customer Dashboard

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Healthy, Organic, and  
Fresh Fruits





## Our Products

All

Fruits

vegetables



Out of Stock

### Pomegranate

Rs:108.00

Farm: Garden Glow Goods

[View More](#)



### Carrot

Rs:25.00

Farm: Garden Glow Goods

[View More](#)



### Potato

Rs:40.00

Farm: Garden Glow Goods

[View More](#)



Out of Stock

### apple

Rs:166.00

Farm: Garden Glow Goods

[View More](#)



Figure 4: Product details

Figure 3: Product List



### Carrot

Price: Rs 25.00

Stock: **Available**

**Description:** Vitamins: Carrots are rich in vitamin A (in the form of beta-carotene), vitamin K, and vitamin C. Minerals: They contain potassium, calcium, and magnesium. Fiber: Carrots are a good source of dietary fiber, which aids digestion. Antioxidants: Besides beta-carotene, they also contain other antioxidants like lutein and zeaxanthin.

Quantity:

1 kg

[Add to Cart](#)



Image	Product	Category Name	Quantity(Kg)	Price (Rs)	Actions
	Carrot	vegetables	<input type="text" value="1.00"/> <a href="#">Update</a>	Rs25.00	<a href="#">Remove</a>

Total Price: Rs25.00

[Proceed to Checkout](#)



Figure 6: checkout page

Figure 5: Cart page

## Checkout

### Customer Details

Name: lakshmi  
Email: grocery18900@gmail.com  
Address: parakkadavil  
Phone: 8590762167  
Pincode: 686509

### Cart Summary

Product Name	Quantity	Total Price
Carrot (vegetables)	1.00	25.00

Grand Total: Rs 25.00

### Order Summary

Grand Total:  
Rs 25.00

[Confirm Order](#)

[Continue Shopping](#)



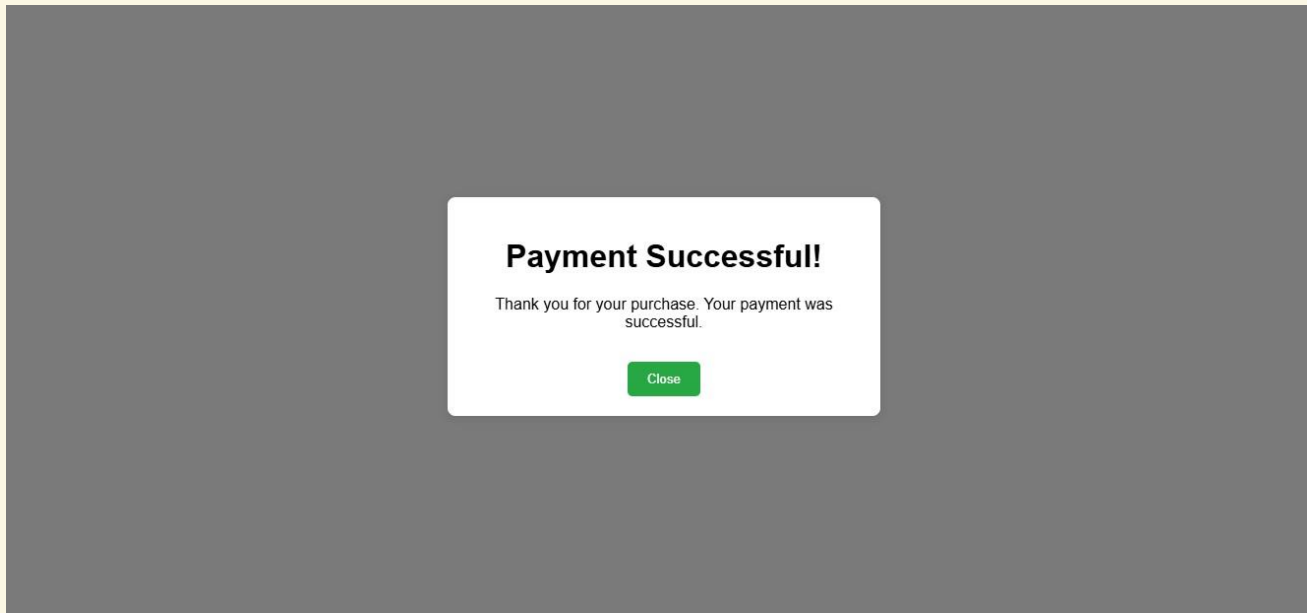


Figure 7: Payment



05





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# Implementation



# Quality Detect

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## Upload Image for Quality Detection

Choose File

No file chosen

 Upload

Powered by Your Company Name





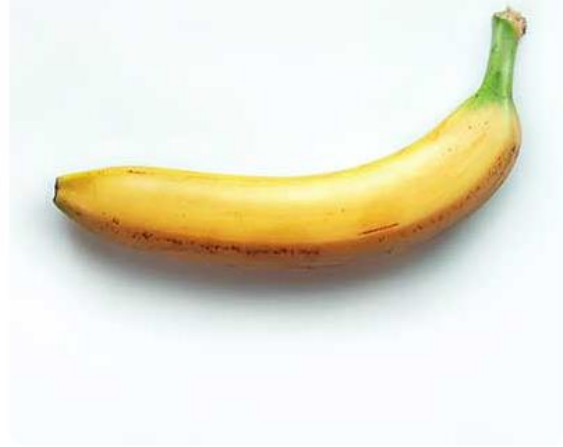
## Quality Check Result



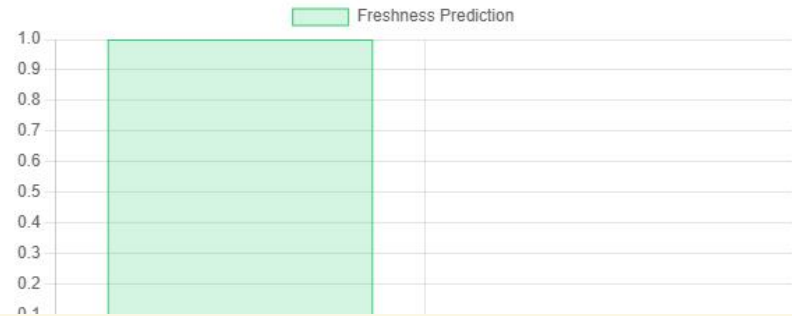
Prediction: **Not Fresh**



Upload another image



Prediction: **Fresh**

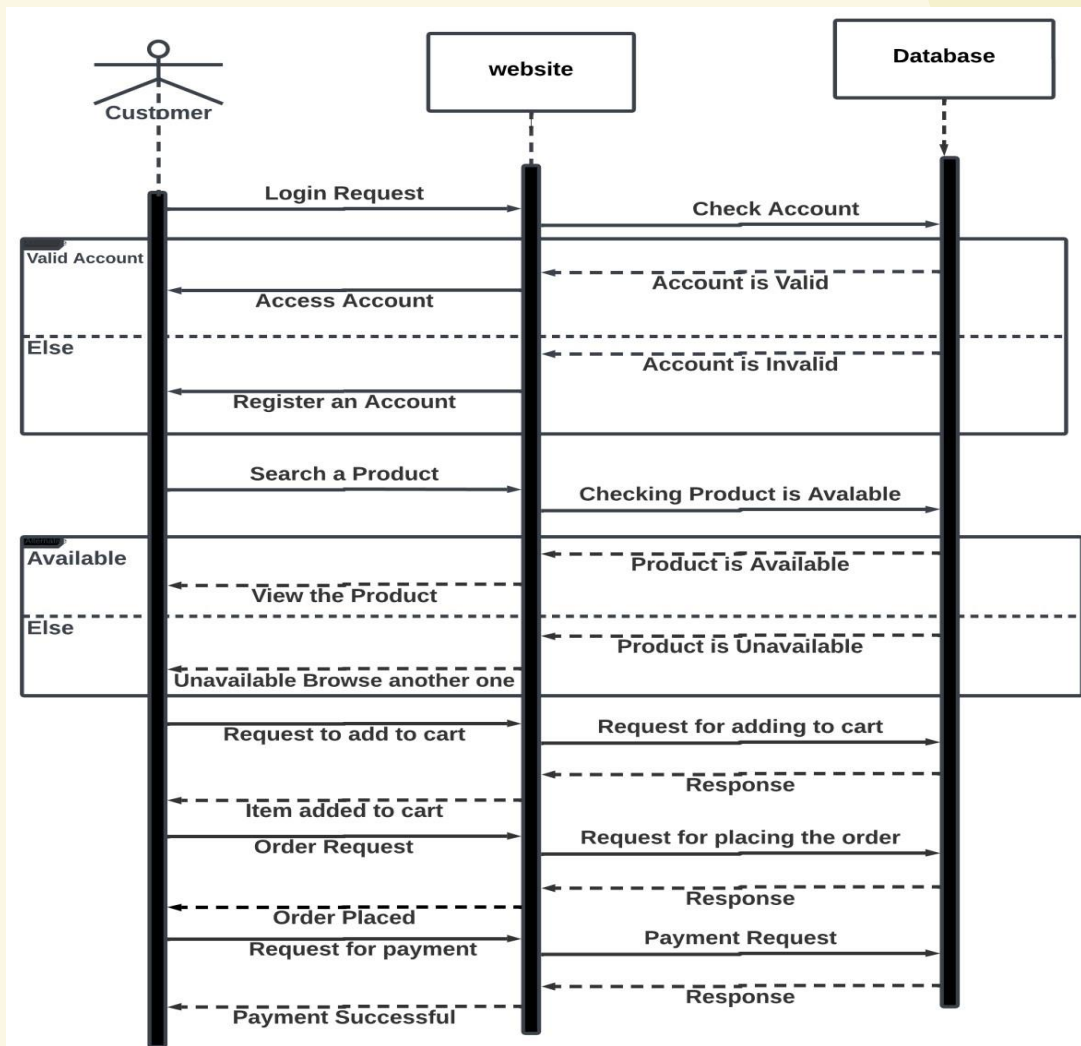




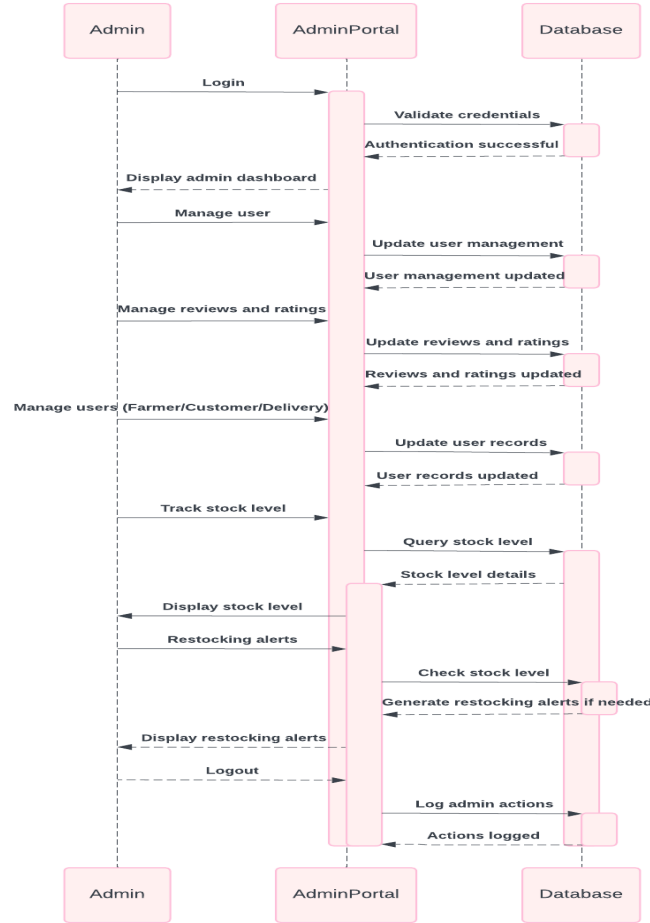
# 06 UML Diagrams

# SEQUENCE DIAGRAM

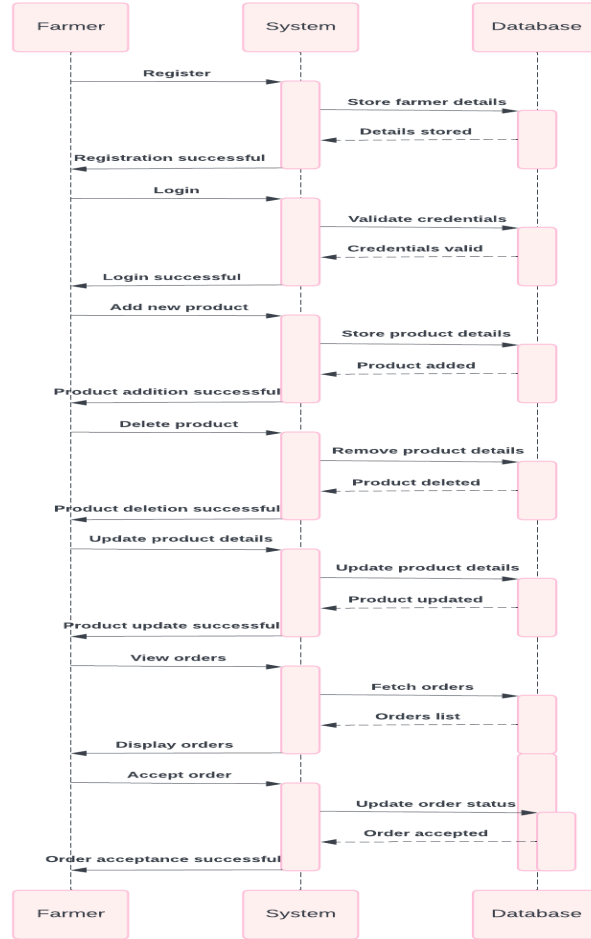
Customer



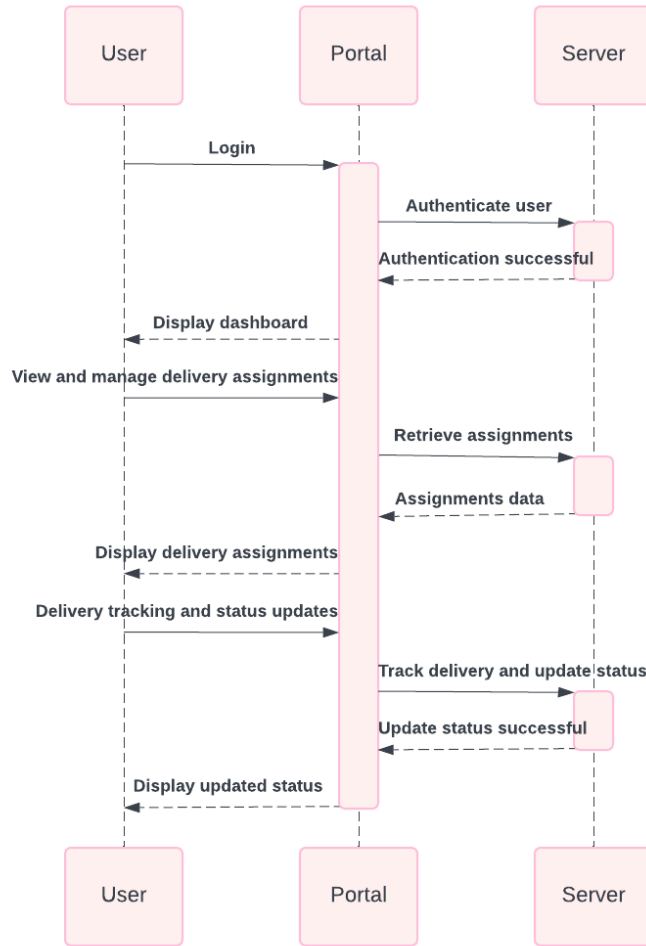
# Admin



# Farmer



# Delivery Boy





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# Conclusion







# Conclusion



The proposed online grocery store system leverages Python and Django for robust web development and utilizes SQLite for efficient data management. The system addresses the limitations of traditional grocery shopping by providing a convenient platform for purchasing fresh fruits and vegetables directly from local farmers. It features dedicated modules for customers, suppliers, delivery personnel, and administrators, enhancing inventory management, streamlining order processing, and allowing real-time tracking of deliveries. Additionally, the implementation of quality detection using machine learning ensures that only the best produce is offered to customers, enhancing overall satisfaction. This user-friendly system supports secure payment options and personalized customer service, making it both technically and behaviorally feasible. Ultimately, it aims to thrive in the competitive online grocery market while promoting local agriculture and ensuring customer satisfaction.





# Thanks!

