

Date:21.09.2024

Final Project

Grocery Application

Project Abstract

This case study focuses on the development of a grocery ordering web application intended to provide a seamless interface for customers to browse, order, and receive groceries from local supermarkets and specialty stores. The platform aims to enhance convenience for users by offering a broad selection of products, personalized shopping options, and efficient delivery services.

Objective:

To develop a comprehensive, user-friendly, and secure grocery ordering system that facilitates easy shopping, rapid transaction processing, and streamlined logistics for grocery delivery, thereby improving the customer shopping experience and operational efficiency for grocery stores.

Key Models

Customer Module: Registration/Login, product browsing, shopping cart, order tracking.

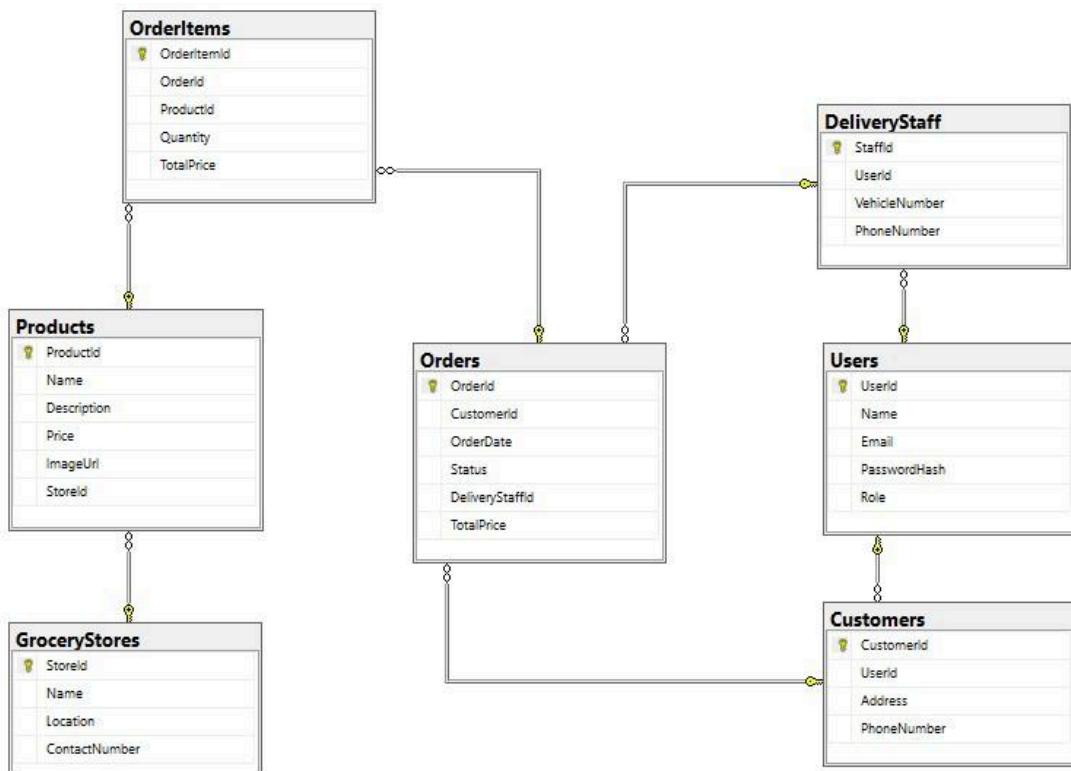
Delivery Staff Module: Delivery schedules, order statuses, optimized routes.

Admin Module: Dashboard for managing platform activities ,order fulfillment, pricing updates., user and store management.

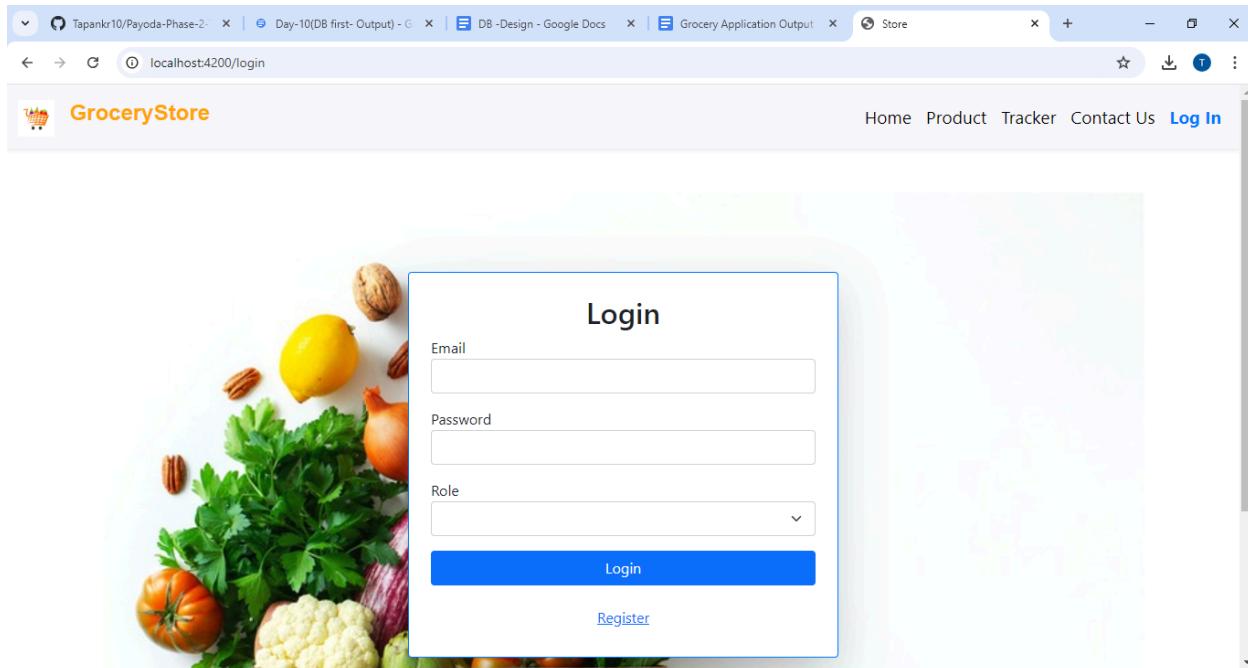
Api Models used in Application are as follows:-

- **User Model**
- **Customer Model**
- **DeliveryStaff model**
- **Product Model**
- **Order Model**
- **OrderItem Model**
- **Store Model**

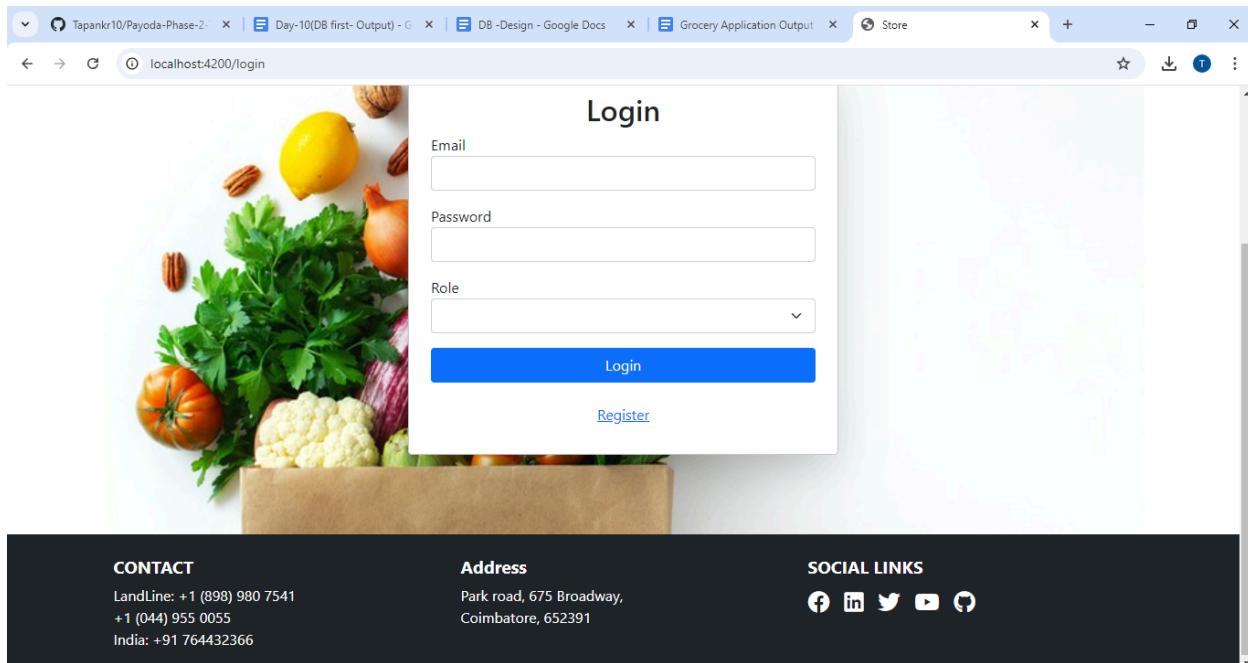
Database Diagram



Login page



The screenshot shows a web browser window with the URL localhost:4200/login. The page title is "GroceryStore". The main content is a "Login" form with a white background and a blue border. It contains fields for "Email", "Password", and "Role", and a "Login" button. Below the form is a "Register" link. The background of the page features a collage of various fruits and vegetables like tomatoes, onions, and cauliflower.

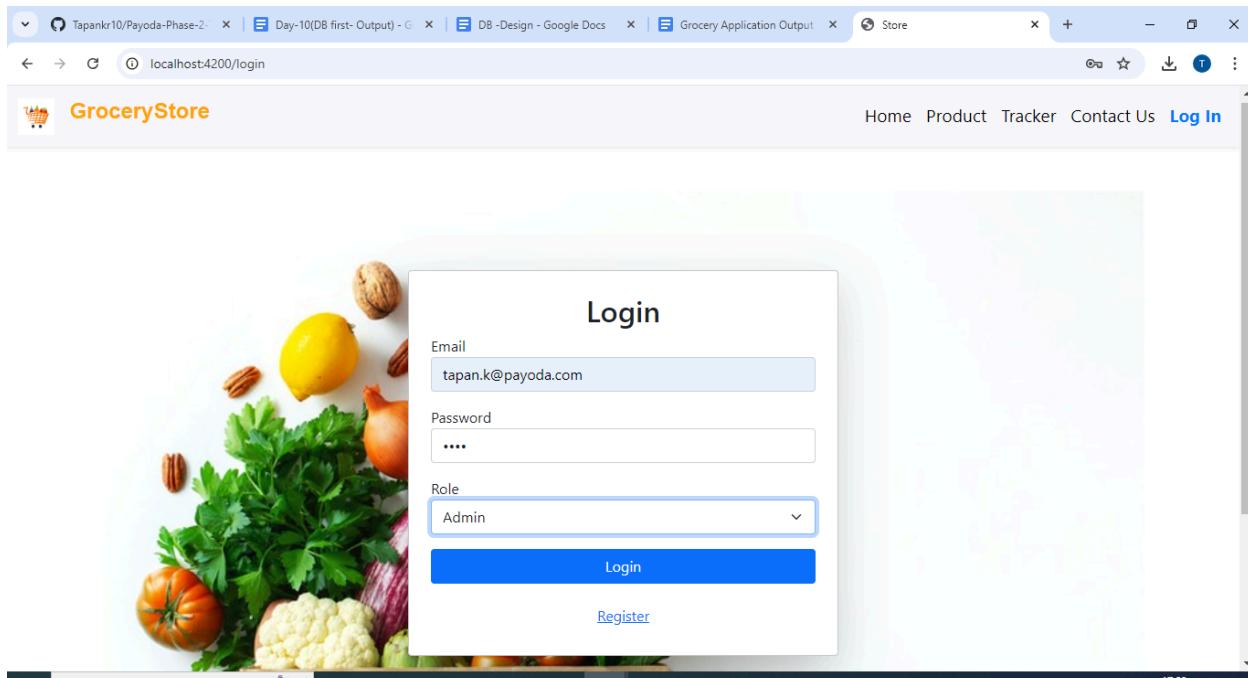


This screenshot is identical to the one above, showing the "GroceryStore" login page at localhost:4200/login. The "Login" form is centered over a background image of a brown paper shopping bag overflowing with groceries, including a yellow lemon, red onions, and green leafy vegetables.

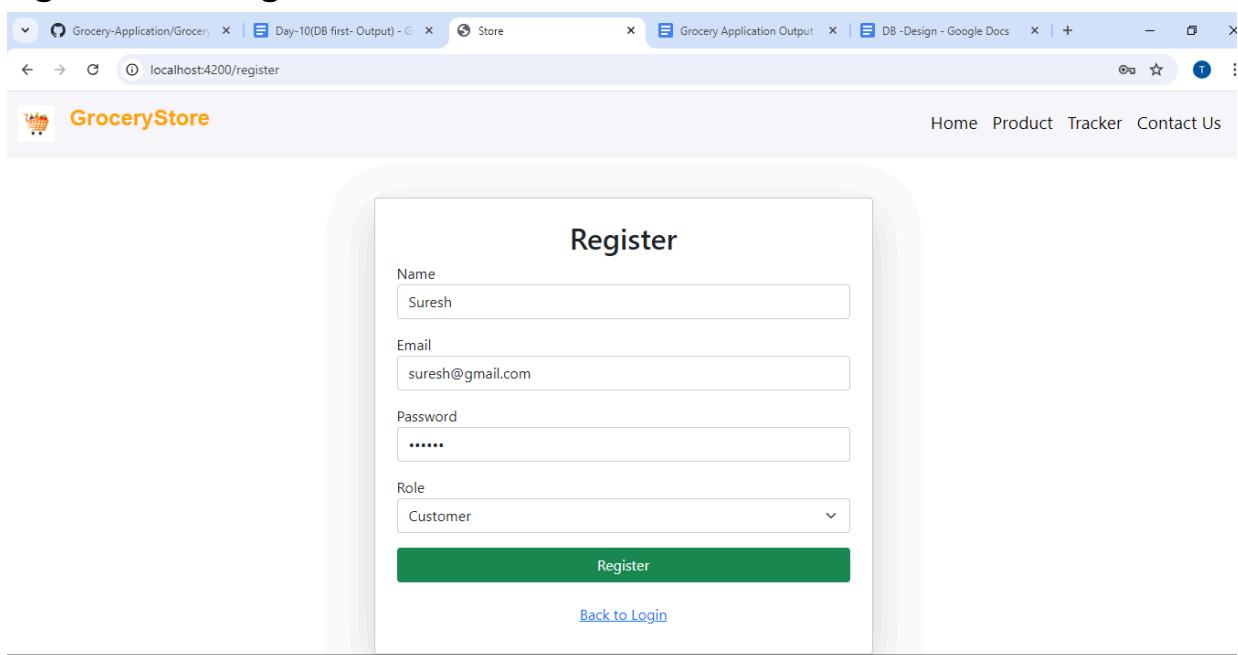
CONTACT
LandLine: +1 (898) 980 7541
+1 (044) 955 0055
India: +91 764432366

Address
Park road, 675 Broadway,
Coimbatore, 652391

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Registration Page



Grocery-Application/Grocery | Day-10(DB first- Output) - G | Store | Grocery Application Output | DB -Design - Google Docs | - + X

localhost:4200/register

GroceryStore

localhost:4200 says
Registered Sucessfully

OK

Register

Name: Suresh

Email: suresh@gmail.com

Password: *****

Role: Customer

Register

[Back to Login](#)

Home Page

Tapankr10/Payoda-Phase-2- | Day-10(DB first- Output) - G | DB -Design - Google Docs | Grocery Application Output | Store | - + X

localhost:4200/products

GroceryStore

Home Product Tracker Contact Us Admin Log Out

Browse Products

All Fruits Vegetables Dairy

Cart



Apples
Price: \$150
Category and Description :- Fruits

Product Id: 1

[Add to Cart](#)



Banana
Price: \$75
Category and Description :- Fruits - Organic Bananas

Product Id: 2

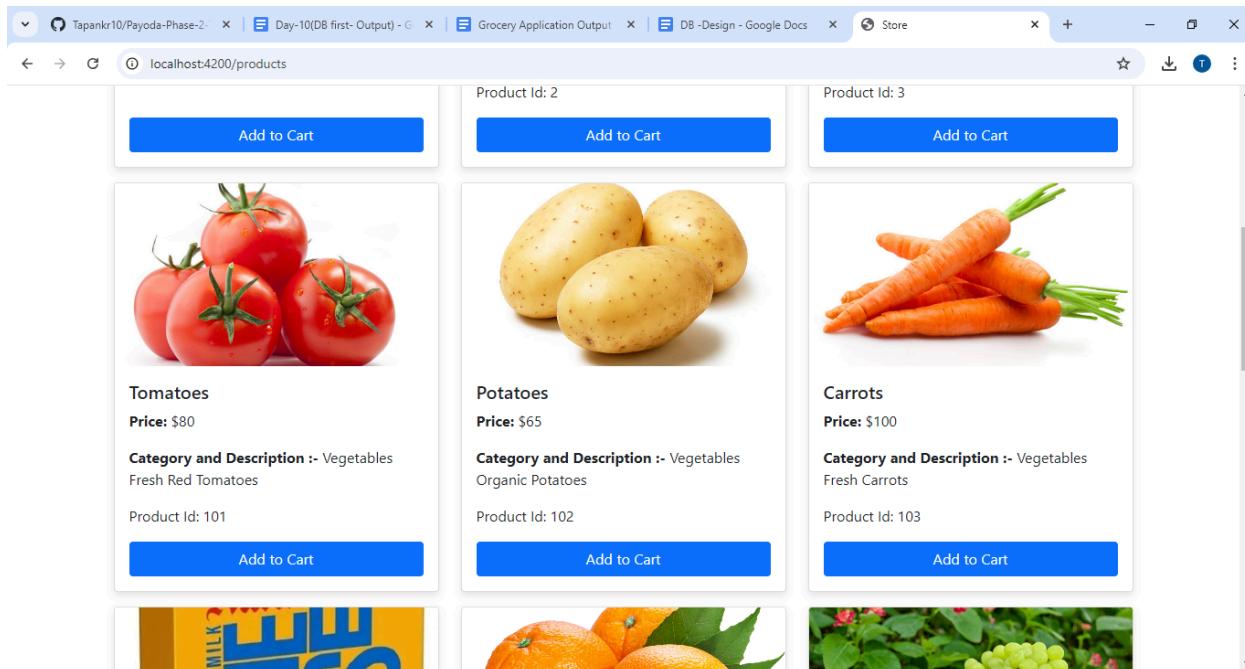
[Add to Cart](#)



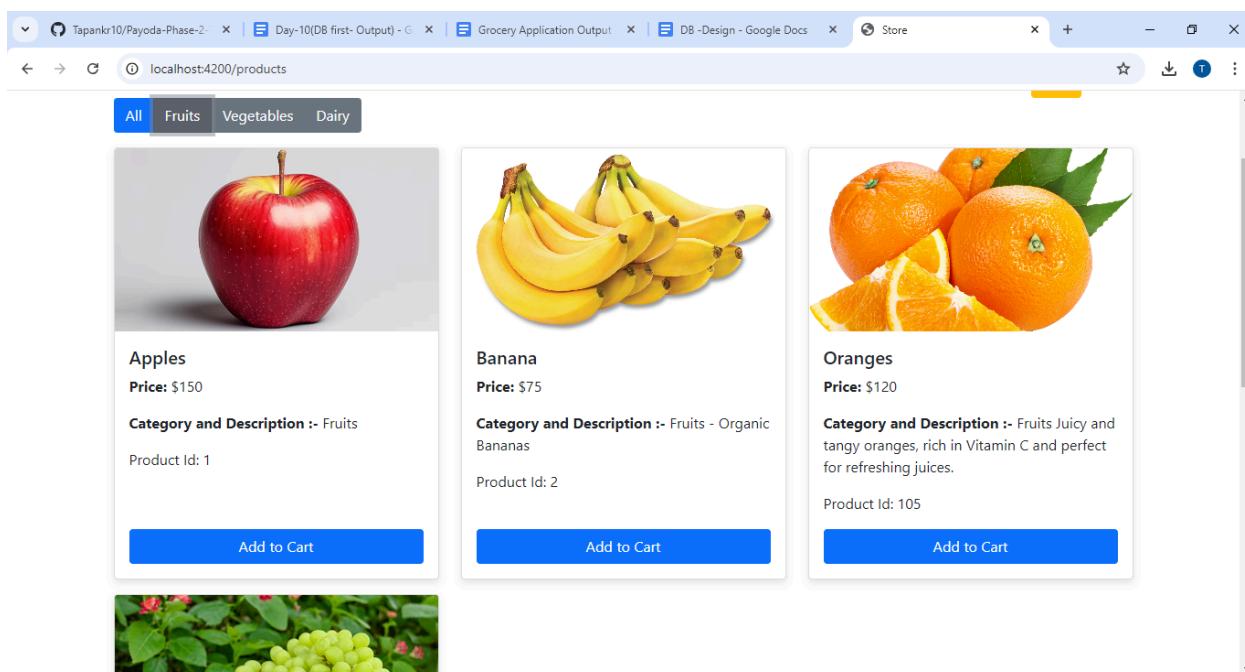
Milk
Price: \$200
Category and Description :- Dairy -Whole Milk 1L

Product Id: 3

[Add to Cart](#)



Filter Functionality



localhost:4200/products

All Fruits Vegetables Dairy



Apples
Price: \$150
Category and Description :- Fruits
Product Id: 1

Add to Cart



Banana
Price: \$75
Category and Description :- Fruits - Organic Bananas
Product Id: 2

Add to Cart



Oranges
Price: \$120
Category and Description :- Fruits Juicy and tangy oranges, rich in Vitamin C and perfect for refreshing juices.
Product Id: 105

Add to Cart



Add to Cart

localhost:4200/products

All Fruits Vegetables Dairy



Milk
Price: \$200
Category and Description :- Dairy -Whole Milk 1L
Product Id: 3

Add to Cart



CHEESE
Price: \$200
Category and Description :- Dairy: Soft and creamy cheese, ideal for sandwiches, salads, and a variety of dishes.
Product Id: 104

Add to Cart



HATSON Curd
Price: \$50
Category and Description :- Dairy: Fresh and creamy curd, rich in probiotics and perfect for digestion and cooling meals.
Product Id: 107

Add to Cart



Add to Cart

Cart

localhost:4200/#

Shopping Cart

Product ID	Product Name	Description	Price	Image	Action
1	Apples	Fruits	\$150.00		<button>Remove</button>
102	Potatoes	Vegetables Organic Potatoes	\$65.00		<button>Remove</button>
103	Carrots	Vegetables Fresh Carrots	\$100.00		<button>Remove</button>
105	Oranges	Fruits Juicy and tangy oranges, rich in Vitamin C and perfect for refreshing juices.	\$120.00		<button>Remove</button>

[Submit Order](#)

Order Dashboard

localhost:4200/orderitem?orderItems=orderId%3D3%26productId%3D1%26productName%3DApples%26quantity%3D1%26price%3D150%26orderId%3D3%26productId%3D2%26productName%3DPotatoes%26quantity%3D9%26price%3D65%26orderId%3D3%26productId%3D3%26productName%3DCarrots%26quantity%3D3%26price%3D100%26orderId%3D3%26productId%3D4%26productName%3DOranges%26quantity%3D2%26price%3D120

GroceryStore

- [Home](#)
- [Product Tracker](#)
- [Contact Us](#)
- [Admin](#)
- [Log Out](#)

Review Your Order

ProductId	Product Name	Price	Quantity	Total Price
1	Apples	\$150.00	<input type="button" value="-"/> <input type="text" value="3"/> <input type="button" value="+"/>	\$450.00
102	Potatoes	\$65.00	<input type="button" value="-"/> <input type="text" value="9"/> <input type="button" value="+"/>	\$585.00
103	Carrots	\$100.00	<input type="button" value="-"/> <input type="text" value="3"/> <input type="button" value="+"/>	\$300.00
105	Oranges	\$120.00	<input type="button" value="-"/> <input type="text" value="2"/> <input type="button" value="+"/>	\$240.00

Total Price: \$1,575.00

[Submit Order](#)

CONTACT
Landline: +1 (898) 980 7541
Mobile: +1 (898) 980 7542

Address
Park road, 675 Broadway,
New York, USA 10019

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Notification of Confirmation

localhost:4200 says
Order placed!!

Review Your Order

ProductId	Product Name	Price	Quantity	Total Price
1	Apples	\$150.00	<input type="button" value="-"/> 3 <input type="button" value="+"/>	\$450.00
102	Potatoes	\$65.00	<input type="button" value="-"/> 9 <input type="button" value="+"/>	\$585.00
103	Carrots	\$100.00	<input type="button" value="-"/> 3 <input type="button" value="+"/>	\$300.00
105	Oranges	\$120.00	<input type="button" value="-"/> 2 <input type="button" value="+"/>	\$240.00

Total Price: \$1,575.00

Submit Order

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Admin Dashboard

localhost:4200/admin

Admin Dashboard



Manage Stores
View and manage all grocery stores.

Manage



Manage Order
View and manage all grocery stores Order.

Manage



Delivery



Customer

Screenshot of a grocery application's admin interface showing three main management sections: Delivery, Customer, and Products.

The top section displays three cards:

- Manage Delivery**: View and manage all grocery stores Order. Includes an illustration of a delivery person on a scooter with a map.
- Manage Customer**: View and manage all grocery stores Order. Includes an illustration of a woman shopping in a supermarket.
- Manage Products**: View and manage all products. Includes an illustration of various fresh vegetables and fruits.

The bottom section displays two cards:

- View and manage all grocery stores Order.** Includes a "Manage" button.
- View and manage all grocery stores Order.** Includes a "Manage" button.

CONTACT

LandLine: +1 (898) 980 7541
+1 (044) 955 0055
India: +91 764432366

Address

Park road, 675 Broadway,
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Manage Store - Admin

Grocery-Application/Grocery | Day-10(DB first- Output) - G | Store | Grocery Application Output | DB -Design - Google Docs | + | - | X | localhost:4200/store

GroceryStore

- Home Product Tracker [Contact Us](#) Admin [Log Out](#)

Grocery Store List

[Create New](#)

Store ID	Store Name	Location	Contact Number:	Actions		
1	SuperMarts	456 Market St, Cityville	555-1234	Details	Edit	Delete
2	GreenGrocers	789 Elm St, Townsville	555-5678	Details	Edit	Delete
3	Tron	Coimbatore	3453454554	Details	Edit	Delete

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Manage Order- Admin

Grocery-Application/Grocery | Day-10(DB first- Output) - G | Store | Grocery Application Output | DB -Design - Google Docs | + | - | X | localhost:4200/order

GroceryStore

- Home Product Tracker Contact Us Admin [Log Out](#)

Order List

Order ID	Customer Name	Order Date	Status	Total Price	Delivery StaffID	Actions	
1	2	9/12/24, 12:00 AM	Completed	\$825.00	2	Details	Edit
3	1	9/18/24, 6:53 PM	Out for Delivery	\$1,416,600.00	1	Details	Edit
4	1	9/18/24, 7:13 PM	Pending	\$275.00	2	Details	Edit
5	2	9/18/24, 7:14 PM	Pending	\$4,925.00	2	Details	Edit
6	1	9/18/24, 7:15 PM	Pending	\$275.00	1	Details	Edit
9	1	9/20/24, 4:25 PM	Completed	\$330.00	1	Details	Edit
10	1	9/21/24, 1:17 PM	Completed	\$675.00	1	Details	Edit
11	1	9/21/24, 1:22 PM	Pending	\$600.00	1	Details	Edit
12	1	9/21/24, 6:11 PM	Pending	\$1,575.00	1	Details	Edit

Manage Product- Admin

localhost:4200/producttable
Star Download Refresh

GroceryStore
Home Product Tracker Contact Us Admin Log Out

Product List

[Create New](#)

Product ID	Product Name	Description	Price	Actions
1	Apples	Fruits	\$150.00	 Details Edit Delete
2	Banana	Fruits - Organic Bananas	\$75.00	 Details Edit Delete
3	Milk	Dairy -Whole Milk 1L	\$200.00	 Details Edit Delete
101	Tomatoes	Vegetables Fresh Red Tomatoes	\$80.00	 Details Edit Delete
102	Potatoes	Vegetables Organic Potatoes	\$65.00	 Details Edit Delete

		of dishes.		 Delete
105	Oranges	Fruits Juicy and tangy oranges, rich in Vitamin C and perfect for refreshing juices.	\$120.00	 Details Edit Delete
106	Grapes	Fruits Sweet and juicy grapes, perfect for a healthy snack or making wine.	\$90.00	 Details Edit Delete
107	Curd	Dairy: Fresh and creamy curd, rich in probiotics and perfect for digestion and cooling meals.	\$50.00	 Details Edit Delete
108	Ghee	Dairy: Pure and aromatic ghee, perfect for cooking, frying, and adding rich flavor to dishes.	\$300.00	 Details Edit Delete
109	Onions	Vegetables: Fresh onions, a key ingredient in Indian gravies, stir-fries, and salads.	\$30.00	 Details Edit Delete

Delivery Partner Dashboard

Grocery-Application/Grocery Day-10(DB first- Output) - G Store Grocery Application Output DB -Design - Google Docs

localhost:4200/Delivery

GroceryStore

Home Product Tracker Contact Us Log In **Log Out**

Order List

Order ID	Customer Name	Address	Phone Number	Order Date	Status	Actions
1	2	123 Main St, Coimbatore	1234567-7890	9/12/24, 12:00 AM	Change Status: Completed Enter Confirmation Code:	<input type="button" value="Update"/>
3	1	123 Main St, Cityville	123-456-7890	9/18/24, 6:53 PM	Change Status: Out for Delivery	<input type="button" value="Update"/>
4	1	123 Main St, Cityville	123-456-7890	9/18/24, 7:13 PM	Change Status: Pending	<input type="button" value="Update"/>
5	2	123 Main St, Coimbatore	1234567-7890	9/18/24, 7:14 PM	Change Status: Pending	<input type="button" value="Update"/>
6	1	123 Main St, Cityville	123-456-7890	9/18/24, 7:15 PM	Change Status: Pending	<input type="button" value="Update"/>
9	1	123 Main St, Cityville	123-456-7890	9/20/24, 4:25 PM	Change Status: Completed Enter Confirmation Code: 565 Confirmation code must be a 4-digit number.	<input type="button" value="Update"/>
10	1	123 Main St, Cityville	123-456-7890	9/21/24, 1:17 PM	Change Status: Completed Enter Confirmation Code:	<input type="button" value="Update"/>
11	1	123 Main St, Cityville	123-456-7890	9/21/24, 1:22 PM	Change Status: Pending	<input type="button" value="Update"/>
12	1	123 Main St, Cityville	123-456-7890	9/21/24, 6:11 PM	Change Status:	<input type="button" value="Update"/>

Validation for OTP

Grocery-Application/Grocery Day-10(DB first- Output) - G Store Grocery Application Output DB -Design - Google Docs

localhost:4200/Delivery

5	2	123 Main St, Coimbatore	1234567-7890	9/18/24, 7:14 PM	Change Status: Pending	<input type="button" value="Update"/>
6	1	123 Main St, Cityville	123-456-7890	9/18/24, 7:15 PM	Change Status: Pending	<input type="button" value="Update"/>
9	1	123 Main St, Cityville	123-456-7890	9/20/24, 4:25 PM	Change Status: Completed Enter Confirmation Code: 565 Confirmation code must be a 4-digit number.	<input type="button" value="Update"/>
10	1	123 Main St, Cityville	123-456-7890	9/21/24, 1:17 PM	Change Status: Completed Enter Confirmation Code:	<input type="button" value="Update"/>
11	1	123 Main St, Cityville	123-456-7890	9/21/24, 1:22 PM	Change Status: Pending	<input type="button" value="Update"/>
12	1	123 Main St, Cityville	123-456-7890	9/21/24, 6:11 PM	Change Status:	<input type="button" value="Update"/>

Customer Order Tracker

Screenshot of a web browser showing multiple tabs and a grocery store application interface.

The tabs visible are:

- Grocery-Application/Grocery
- Day-10(DB first- Output) - G
- Store
- Grocery Application Output
- DB -Design - Google Docs

The main content area shows the URL <localhost:4200/track>.

The application header includes:

- GroceryStore logo
- Navigation links: Home, Product, Tracker (highlighted in blue), Contact Us, Log Out

The "Order Tracker" section displays a table of order details:

Order ID	Order Date	Status	Total Price	Delivery Staff Phone Number
3	9/18/24, 6:53 PM	Out for Delivery	\$1,416,600.00	99555-98767
4	9/18/24, 7:13 PM	Pending	\$275.00	96734-98768
6	9/18/24, 7:15 PM	Pending	\$275.00	99555-98767
9	9/20/24, 4:25 PM	Completed	\$330.00	99555-98767
10	9/21/24, 1:17 PM	Completed	\$675.00	99555-98767
11	9/21/24, 1:22 PM	Pending	\$600.00	99555-98767
12	9/21/24, 6:11 PM	Out for Delivery	\$1,575.00	99555-98767

The footer section contains three columns:

- CONTACT**
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+1 (044) 955 0055
India: +91 764432366
- Address**
Park road, 675 Broadway,
Coimbatore, 652391
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