

# **GROCERY STORE APPLICATION**

**UNDER THE GUIDANCE OF**

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# ■ INTRODUCTION:

Welcome to the Grocery Store Application. It is a mobile application designed to revolutionize the way people shop for and buy groceries. It offers a seamless and convenient shopping experience allowing users to browse and buy groceries online or manage their shopping list and track their orders. You can use the Grocery Store application in many ways which is designed to be easier, faster and more convenient than ever before. Like creating shopping lists and making purchases, tracking order and delivery status, personalized research and various categories to enjoy loyalty rewards, and easily make secure payments and use them to rate.

- grocery store management application. It will be 3 tier application,
- 1. Front end: UI is written in HTML/CSS/JavaScript/Bootstrap
- 2. Backend : Python Django ((PyCharm 2024.1.3)
- 3. Database: Mysql(mysql Ver 8.0.36)



## ■ **PROPOSE SYSTEM:**

The frontend consists of a web application, built using modern UI is written in HTML/ CSS/JavaScript/Bootstrap The backend uses Python or Django and a database like MySQL . The system includes modules for user management, product management, order management, payment gateway integration, inventory management, promotions, and loyalty programs.

Grocery store application that provides customers with a user-friendly platform to browse, purchase, and manage their groceries. The application features account creation, browsing products, adding items to cart, and secure checkout. The application uses GPS tracking for store finder, delivery, and pickup. Customers can manage their shopping lists, track orders, and receive personalized recommendations. Store owners can manage inventory, track sales, and analyze customer behavior. Grocery-ease will streamline grocery shopping and save time and effort for customers.

## ■ **ADVANTAGES:**

- Grocery store apps offer customers a convenient and personalized shopping experience, allowing them to browse and buy their groceries from anywhere, anytime. The application saves time, as customers can browse and shop faster, and have access to a wide range of products, including specialty and organic items. The application also includes customized recommendations, offers, and loyalty rewards for a personalized experience. Customers can easily repeat orders, edit lists, and manage their accounts. Secure in-app payment processing and order tracking are also available. In addition, the app helps store owners with data analysis and inventory management, and provides cost-effective and eco-friendly options. The rear many advantages of this application

## ■ **DISADVANTAGES:**

- There are some common problems with grocery store applications that can cause inconvenience and frustration for users. Technical glitches and errors can make the application unstable, while limited product availability and delivery delays can frustrate users. High costs, such as delivery fees or minimum order requirements, can deter users from using the application. Lack of sensory experience, such as the inability to touch or smell the products, can also be a problem. In addition, dependence on the internet connection and security concern scan worry users. Limited customer support and the inability to handle complex orders can also be problems. Finally, the possibility of errors, such as ordering the wrong or duplicate items, can cause trouble for users. Solving these problems can make the application more user friendly and effective

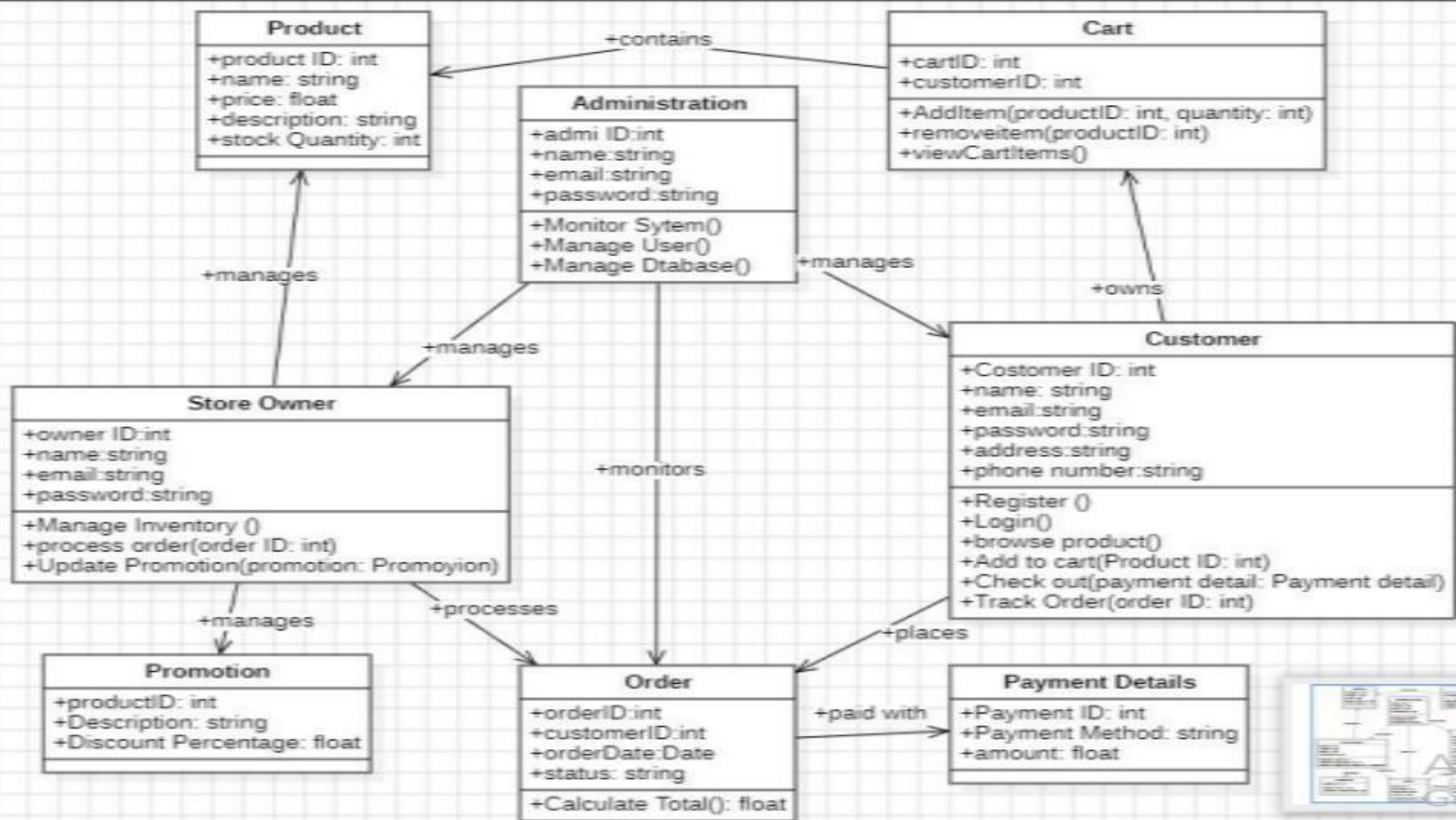
- **STAKE HOLDERS:**
- **Customers:** Individuals who use the app to shop for groceries, access promotions, and manage their orders.
- **Store Owners/Management:** Those who own or manage the grocery store, interested in sales data, inventory management, and customer engagement.
- **Employees:** Staff who handle order fulfillment, customer service, and inventory management; they may need training on using the app.
- **Delivery Services:** If the app includes delivery options, third-party logistics or delivery personnel are also stakeholders.
- **Marketing Team:** Responsible for promotions and advertising through the app, interested in customer engagement and analytics.
- **Admin:** The admin manages user accounts, processes orders, and oversees inventory while ensuring customer support and compliance. They also analyze sales data and coordinate promotions to enhance operational efficiency.

# ■ **FUNCTIONS:**

- User Management:
  - :- User authentication (registration, login, password recovery)
  - :- User profile management (settings, order history)
- Product Management:
  - :- Product catalog management (add, update, remove products)
  - :- Product details (description, price, images, reviews) Search and filtering functionality
- Order Management:
  - :- Shopping cart management
  - :- Order placement and processing
  - :- Order tracking and status updates
- Payment Processing:
  - :- Secure payment gateway integration (credit/debit cards, digital wallets)
  - :- Payment verification and confirmation

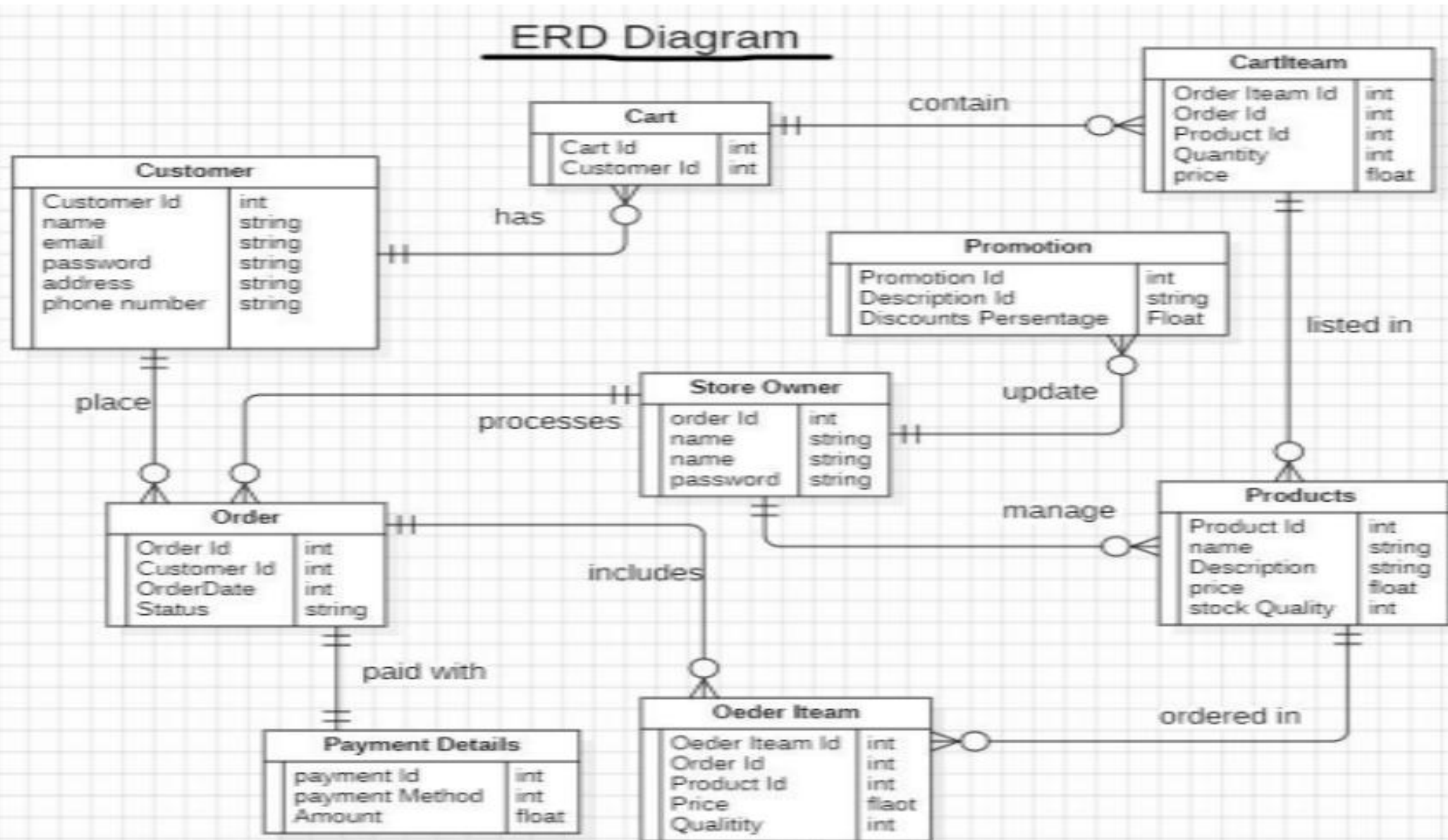
- Delivery/Pickup:
  - :- Delivery and in-store pickup options
  - :- GPS tracking for delivery and pickup
- Promotions and Loyalty
  - :- Management of promotions, discounts, and loyalty programs
  - :- Integration with loyalty rewards system

# ■ Class Diagram:

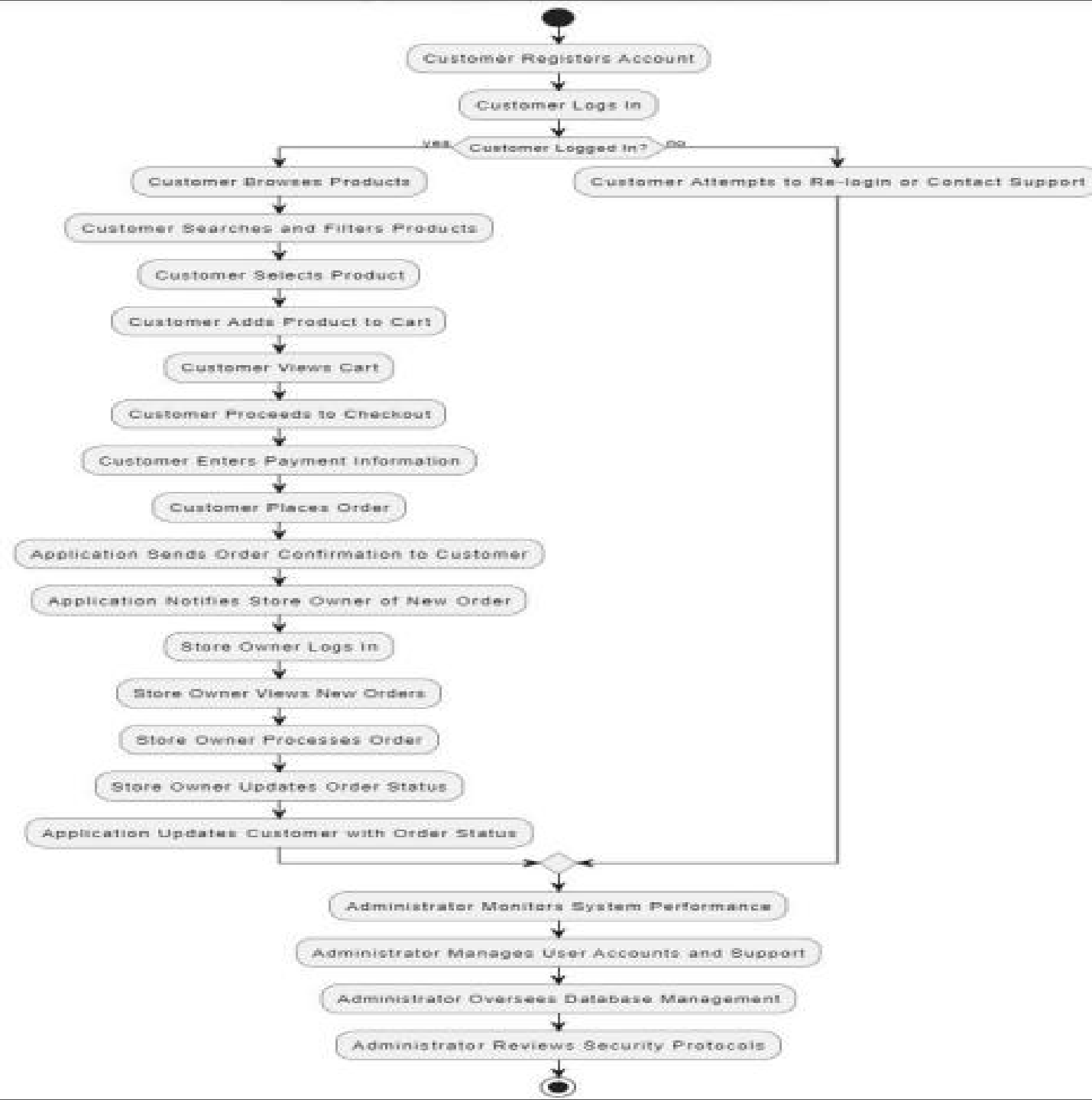




# ER Diagram:



# ■ Flow Diagram

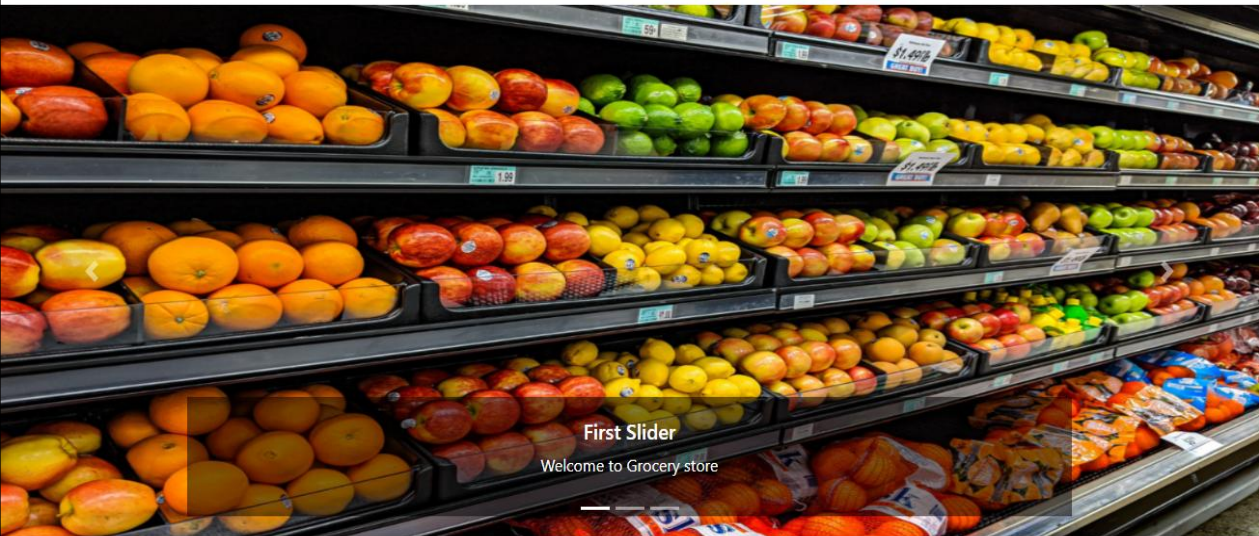




# ■ Screen Short:

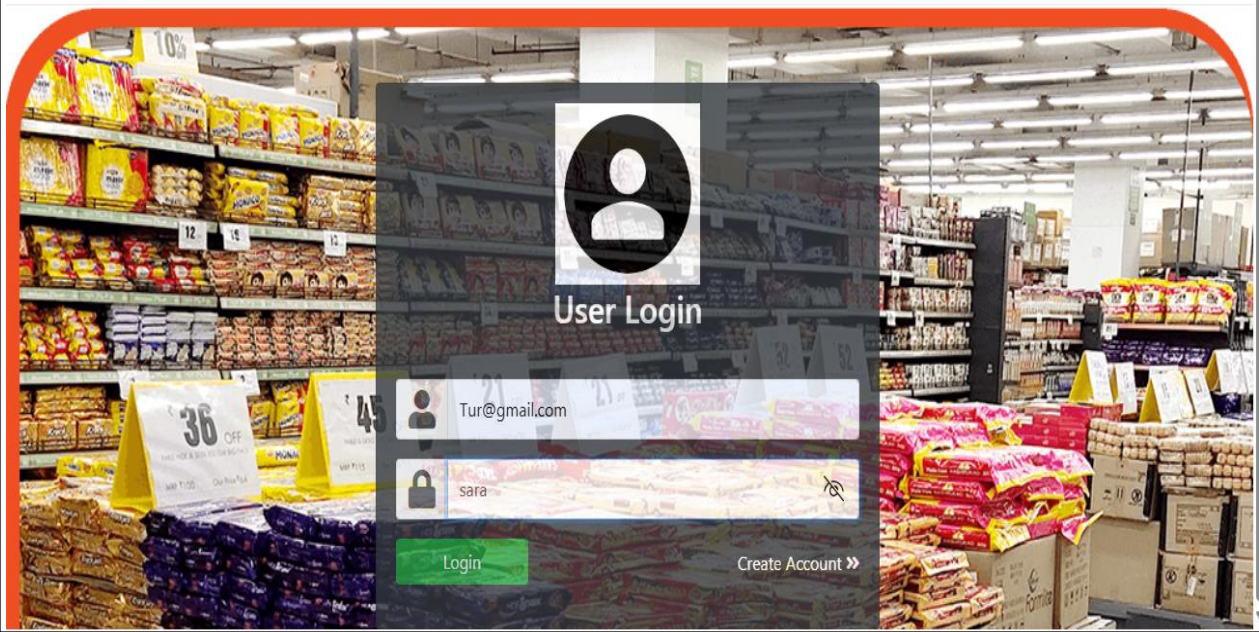
Online Grocery Shop

Home Product About Us Contact Us Login Signup Admin Login



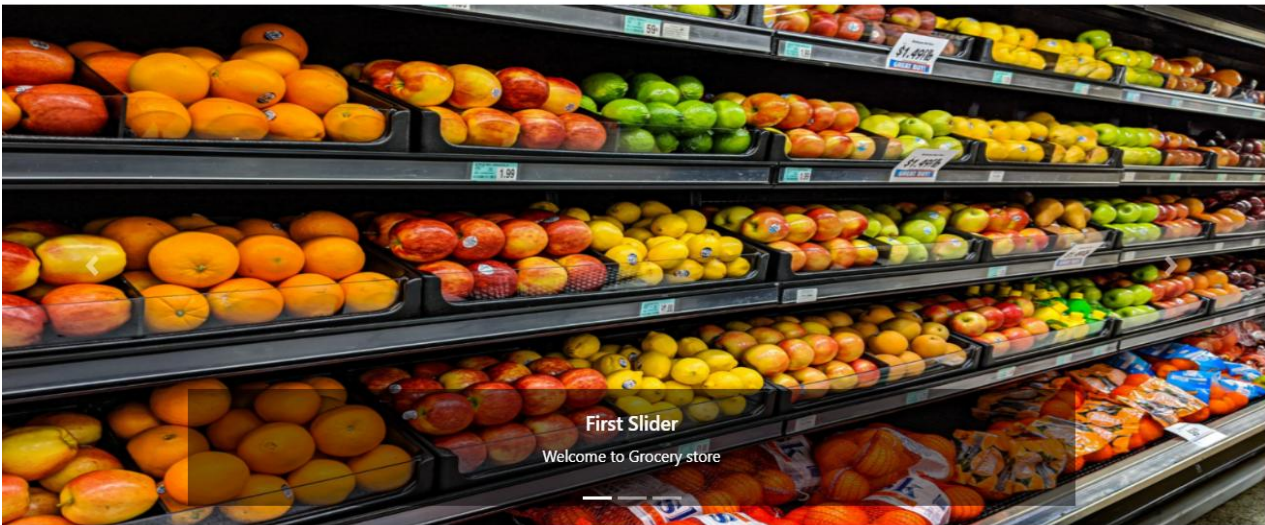
Online Grocery Shop

Home Product About Us Contact Us Login Signup Admin Login



Online Grocery Shop

Home Product Feedback My Order My Cart 



## Create an Account

Ama

Tur

Tur@gmail.com

09876543210

....

sara

Choose File

Duplichecker-Plagiarism-Report.pdf


Virar

Submit



Start Filtering


View Product



Apple Rs. 100 95.0

Apple


Add to cart



Tomato Rs. 80 72.0

Tomato


Add to cart



Potato Rs. 45 42.75

This is Tomato


Add to cart




Carrot Rs. 60 54.0

This is Carrot


Add to cart




Capsicum Rs. 40 30.6



Brinjal Rs. 30 30.7




Cucumber Rs. 70 56.0



Cabbage Rs. 30 30.7

Product

Detail



Apple

M.R.P. : 100- Rs. 95.0

Add Quantity

-

1

+

Description About this product:-  
Apple

Add To Cart

Online Grocery Shop

Home

Product

Feedback

My Order

My Cart

Online Grocery Shop

Home

Product

Feedback



My Order

My Cart

My Cart

Buy Now

Continue Shopping

Image	Name	Price	Quantity	Total	Delete
	Tomato	Rs. 72.0	<div>-</div> <div>2</div> <div>+</div>	144.0	<div></div>
	Apple	Rs. 95.0	<div>-</div> <div>2</div> <div>+</div>	190.0	<div></div>
				334	

Confirm Booking Detail

First Name

Aman

Last Name

T

Email ID

Tur@gmail.com

Contact

1234567890

Address

Virar

Total Price(Rs.)

334.00

Book Now



Payment Method

Debit or Credit Card

VISA

DISCOVER

AMERICAN EXPRESS

Ama

0987

7day

987

SAVE CARD

Confirm

G Pay

Apple Pay

PayPal

Order Summary

Order price:Rs.360.00

Applied Discount:Rs.26.00

Tax:0.00

Total:Rs.334.00

Pay and Confirm Order by QR Code Using Mobile Application

Online Grocery Shop

Home

Product

Feedback

My Order

My Cart

My Order

Serial	BookingID	TotalPrice	Status	CreationDate	Action
1	7	160.0	Cancel	Oct. 6, 2024, 3:39 p.m.	-----
2	8	334.0	Pending	Oct. 9, 2024, 4:19 p.m.	X

Online Grocery Shop

Home

Product

Feedback

My Order

My Cart

Track Order Status

Dashboard order-status

Track Order

✓

PENDING

DISPATCH

ON THE WAY

DELIVERED

CANCEL

RETURN

Online Grocery Shop

Home

Product

Feedback

My Order

My Cart

My Cart

Buy Now

Continue Shopping

Image	Name	Price	Quantity	Total	Delete
	Apple	Rs. 95.0	<div>-1+</div>	95.0	
				95	

## My Profile

First Name

Aman

Last Name

T

Email ID

Tur@gmail.com

Contact

1234567890

User PIC

 No file chosen

Address

Virar

## Change Password

Current Password

\*\*\*\*\*

New Password

\*\*\*\*\*

Confirm New Password

radhe

[My Order](#) [My Cart](#)

Profile

Change Password

Logout



## ■ **Conclusion:**

The Grocery Store Application aims to transform the grocery shopping experience by leveraging modern technology to provide convenience, efficiency, and personalization for users. With a well-structured three-tier architecture, the application combines a user-friendly frontend, a robust backend powered by Python Django, and a reliable MySQL database to support various functionalities. The objectives of the application include enhancing customer satisfaction through personalized shopping experiences, facilitating efficient inventory and order management for store owners, and ensuring secure payment processing. Key features such as user authentication, product management, shopping list functionality, and real-time order tracking are designed to meet the diverse needs of customers, from busy professionals to families and health-conscious shoppers. While the application presents significant advantages—such as saving time, offering a wide range of products, and providing loyalty rewards—it also acknowledges potential challenges like technical glitches, delivery delays, and user interface issues. Addressing these disadvantages through continuous improvement and user feedback will be critical to the application's success.

## ■ **Future Enhancement:**

- Future improvements for the Grocery Store Application could make shopping even better for users. Adding smart features could help suggest products based on what they usually buy. Using augmented reality (AR) could let users see how items look in their homes before buying. Voice command options would allow for easier searching and ordering without typing. Subscription services could make it convenient for users to get regular deliveries of essential items at a discount. Better loyalty programs could reward users with fun challenges and points. Real-time inventory updates would keep users informed about what's in stock. Highlighting eco-friendly products could promote sustainability. Users could also share shopping lists with friends and family for easier planning. More delivery choices, like scheduled times or local options, could improve convenience, and health tracking features could help users make better food choices. Together, these enhancements would make grocery shopping more personalized, enjoyable, and efficient.

- **Reference:**
- Book Name with Author
- "The Retail Revolution: How Wal-Mart Created a Brave New World of Business" by Robin Lewis and Michael Dart (includes insights applicable to Indian retail)
- Web-pages
- India Mart India Mart(<https://www.indiamart.com/>) A B2B marketplace that can help connect grocery store owners with suppliers and wholesalers.
- Video Link
- <https://www.youtube.com/playlist?list=PLKcvQn8OTDUZf9bFWpQ1yAk5uLXITnDb>



**THANK YOU**

