



# DP-1 PROJECT PROPOSAL

## **GrocerEase**

### **Team Information (Team:13)**

#### **Prepared by:**

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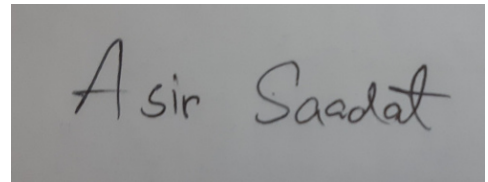
**Date of Submission:** 25 September, 2023

# SIGNED BY SUPERVISORS:

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Tanjila Alam  
Sathi, Lecturer,  
CSE, IUT

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Asir Sadat Nipun,  
Associate Software  
Developer , Therap BD  
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# PROBLEM STATEMENT:

Traditional grocery shopping can be time-consuming and inconvenient for many consumers. In today's fast-paced world, people are looking for convenient and efficient ways to purchase groceries and household items. Shoppers often struggle with crowded stores, long checkout lines, and a lack of personalized recommendations. There is a demand for a modern, user-friendly solution that simplifies grocery shopping and enhances the overall shopping experience.

# TARGETED PROBLEMS:

- Cart management in physical stores can be inconvenient, making it challenging to add, remove, or edit items easily.
- Customers lack personalized product recommendations, missing out on tailored suggestions.
- Reordering frequently purchased items is inefficient, as there is no automated system for generating shopping lists
- Subscription services for essential items like vegetables, rice and eggs are often unavailable to customers.
- Traditional stores do not always provide product reviews and ratings, hampering informed decision-making.

# POTENTIAL SOLUTION:

Our proposed solution is "GrocerEase", a user-centric grocery shopping web based platform. GrocerEase will address the problems consumers face by providing an intuitive and efficient way to purchase groceries and household items. This platform will offer a range of features designed to make grocery shopping easy and convenient.

# KEY FEATURES:

- **User Registration:**

Email Verification

User Type: Customer, Seller

- **Product Upload:**

Products uploaded by seller

- **Product Listings:**

Product and related information display

- **Search and Filter:**

Product Searching

Filtering Results

- **Shopping Cart:**

Adding items to cart

- **Personalized Shopping Lists:**

Automatic generated grocery list

# KEY FEATURES:

- **Subscription Service:**

Subscribe to sellers for daily supplies

- **Payment Gateway:**

Payment by card, digital wallet, cash on delivery

- **Delivery:**

Automated order delivery

- **Order History:**

Maintains record of orders

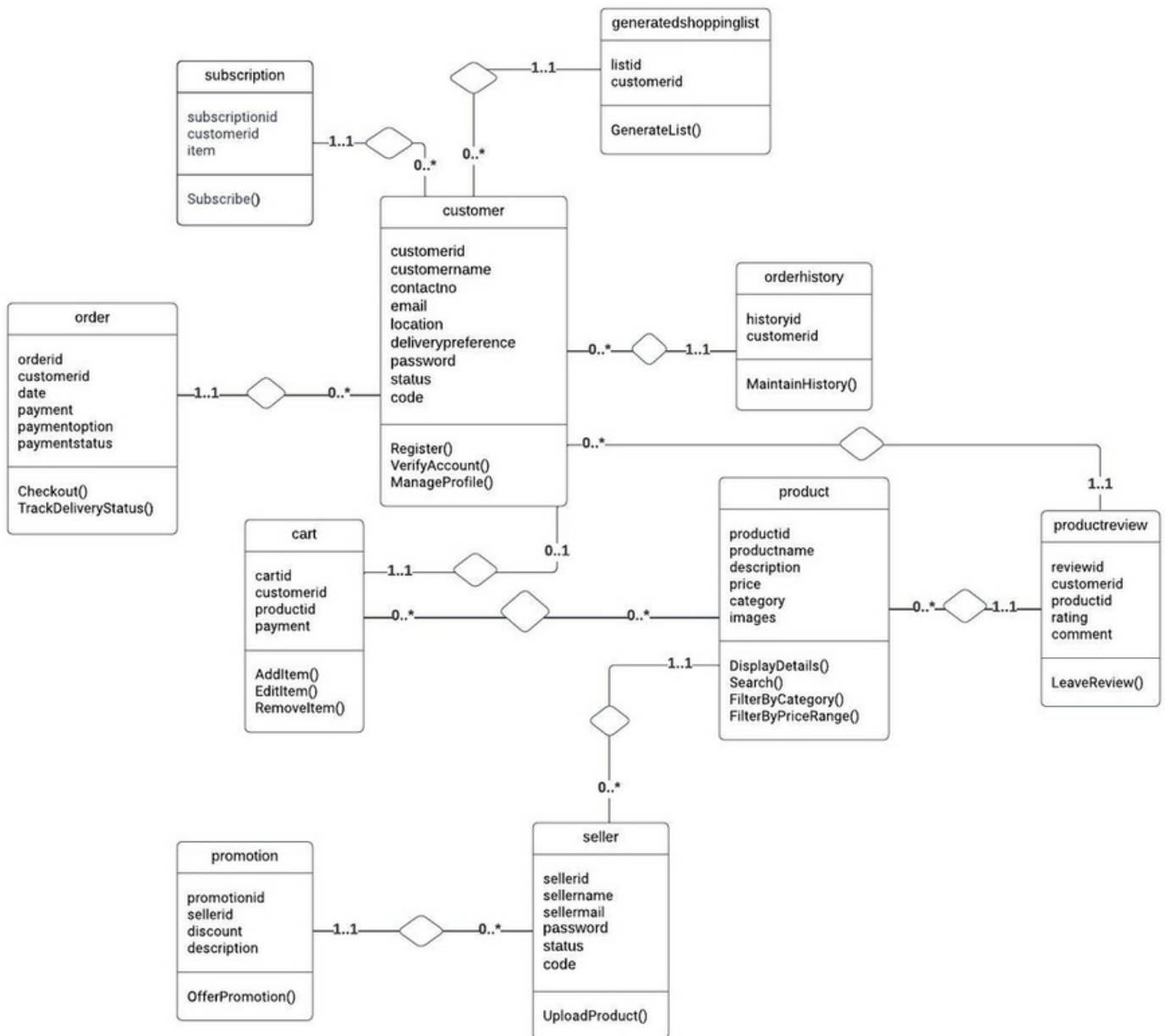
- **Ratings and Reviews:**

Products can be rated and reviewed

- **Promotions and Discounts:**

Special offers by sellers

# UML DIAGRAM:





# APPLICATION:

- **User Registration:**

Customers and Sellers can register by providing their name, email, contact number, location, delivery preference (optional) and password. Later, the authentication process will be carried out via email through a verification link.

- **Product Listing:**

Products will be displayed in cards where other information like image, price and category will also be shown.

- **Search and Filter:**

Customers can search for grocery items. They can also filter search results based on various categories and price range.

- **Shopping Cart:**

Customers can add items to their cart. They can also remove or edit items if necessary.

# APPLICATION:

- **Product Uploading:**

Sellers can upload their items by providing item's name, description, category, images and price. Uploaded items will be displayed on both sellers' profile and to customer's homepage.

- **Subscription Services:**

Customers can subscribe to sellers for regular deliveries of essential items like vegetables, rice and eggs etc. Subscribed items will be delivered to them on daily/weekly/monthly basis.

- **Payment Gateway:**

Customers can pay through various payment options, including credit/debit cards, digital wallets, and cash on delivery.

- **Order History:**

Customers can maintain records of their past orders.

# APPLICATION:

- **Delivery:**

Customers can choose delivery dates and time slots convenient for them. They can track order delivery and monitor the status of their deliveries.

- **Rating and Review:**

Customers can rate grocery items. They can also write reviews of their purchased items. They can view reviews from individual item's page.

- **Promotions and Discounts:**

Sellers can offer discounts, promotions, and loyalty programs to attract and retain customers.

# TOOLS AND TECHNOLOGY:

- **Front-end:** HTML5, CSS3, JavaScript, React.js, TailwindCSS
- **Back-end:** Django (Python framework)
- **Database:** MySQL
- **Version control:** Git

# APPLICATION DOMAIN:

- **Application Domain:** Online Grocery and Essentials Delivery
- **Platform:** Web Application
- **Category:** E-commerce
- **Target Audience:** Diverse consumers seeking convenient online grocery shopping, from busy professionals to families in need of fresh produce and daily essentials delivered to their doorstep.

# TIMELINE

