**COMPANY MANUFACTURING ICE CREAM AND MILK PRODUCT**

**Business Requirement Document (BRD)  
For: Ice Cream and Milk Products Manufacturing Company  
Version: 1.0  
Date: 25/01/2025  
Prepared by: Shikha yadav**

**1.1 Purpose:**

This document outlines the business requirements for establishing an ice cream and milk product manufacturing company. It defines the project’s objectives, scope, stakeholders, and resource planning for successful implementation.

* 1. **Business Objectives**
* Ensure high-quality production of ice cream and milk products.
* Maintain food safety and regulatory compliance.
* Develop a distribution network to retail outlets, supermarkets, and online platforms.
* Enhance customer satisfaction and brand loyalty.
* Implement sustainable and cost-effective manufacturing processes.
  1. **Scope**

The company will focus on producing high-quality dairy-based products, including various flavors of ice cream, flavored milk, yogurt, and other dairy derivatives. The project encompasses production, packaging, distribution, marketing, and sales. Implementation of a customer feedback and support system.

**1.4 Regulatory and Compliance**

* Adherence to Food Safety and Standards Authority (FSSAI, FDA, or equivalent).
* Compliance with HACCP and GMP standards.
* Sustainable and eco-friendly packaging policies.

**1.5 Resource plan**

* People – 8 to 10 (business analyst, PM, designers, developers, testers)
* Time – 12 months (4 weeks for requirement gathering, 5 weeks for system design, 6 months for development, 7 weeks for testing, 4 weeks for deployment, 4 weeks for user training and documentation.)
* Budget – 1 crore approx.
* Others – Data base management system (DBMS) team 20 lac for DBMS

**1.6 Assumptions**

* Reliable internet connectivity for real-time updates.
* Integration with third-party delivery services if needed
* Secure online payment gateway.

**2. Process flow diagram**



**3. Introduction letter to client**

Dear Client,

My name is Shikha yadav, and I am pleased to introduce myself as the Business Analyst assigned to work with you and your team on the business understanding process for inventory management and quickest delivery of your ice cream and dairy product manufacturing venture

With a strong background in business analysis and industry insights, my role is to collaborate closely with you to gather requirements, analyze market trends, identify opportunities, and ensure a smooth transition from planning to execution. Our goal is to create a strategic roadmap that aligns with your vision, optimizes operational efficiency, and maximizes profitability.

In the coming days, I will be engaging with your team to gain a deeper understanding of your objectives, processes, and challenges. This will enable us to develop a tailored approach that supports informed decision-making and sustainable growth.

I look forward to working together and contributing to the success of your business. Please feel free to reach out if you have any questions or would like to schedule an initial discussion.

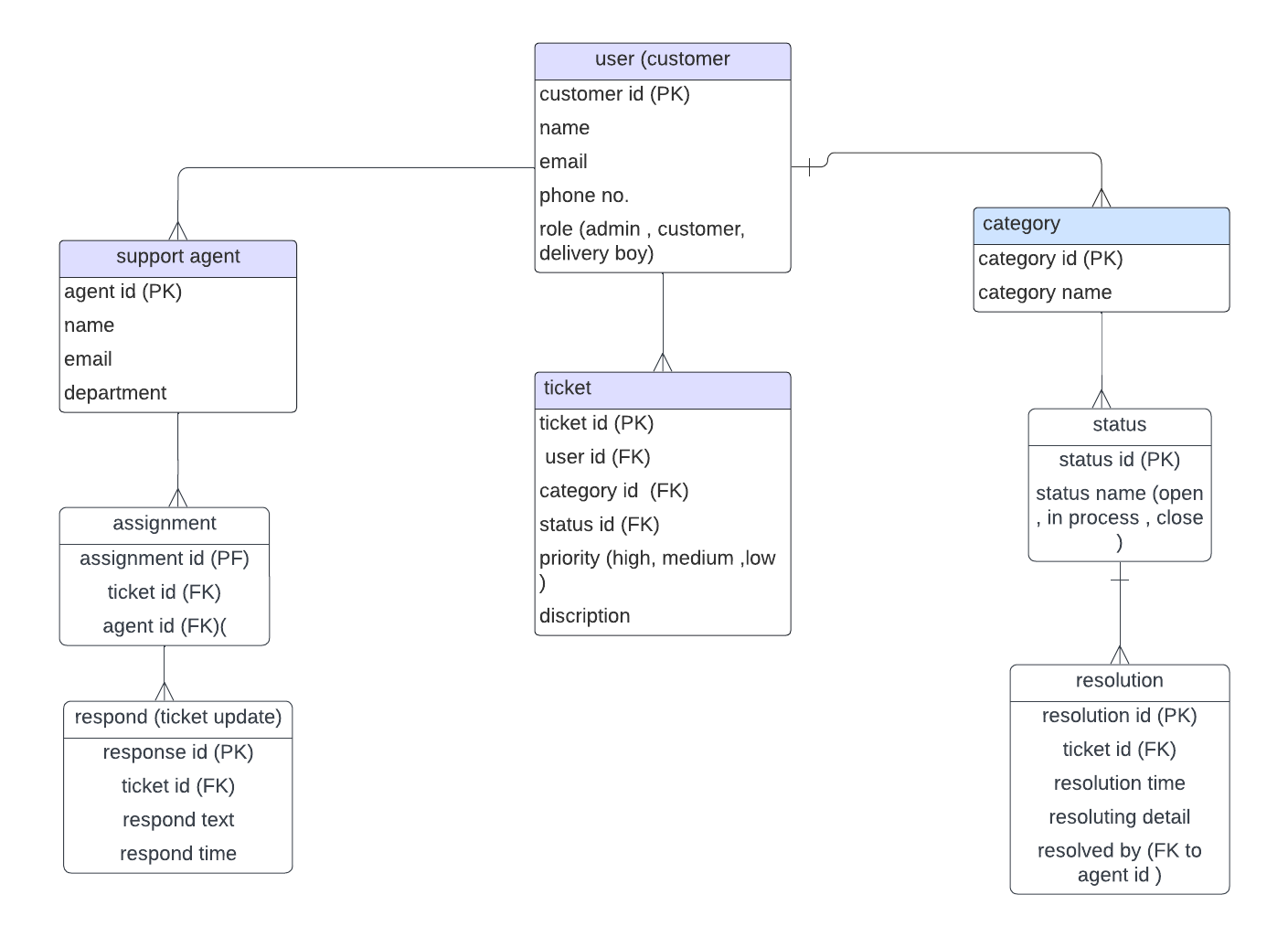
Best regards,  
shikha yadav   
(Business Analyst)  
(xyzzy company)

**4. Software requirement specification (SRS)**

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| **Req ID** | **Req Name** | **Req Description** | **Priority** |
| FR0001 | User registration | User can register with valid phone no. and email id | 10 |
| FR0002 | Registration alert/notification | client should get alert/notification while successful registration. | 9 |
| FR0003 | Registered Admin Login | Registered Admin should be able to login to the Application | 9 |
| FR0004 | Registered delivery boy login | Registered delivery boy should able be login to the application | 10 |
| FR0005 | Admin can manage inventory | update, delete stock | 9 |
| FR0006 | Admin can monitor inventory | Admin can monitor stock level and receive notification alert for low stock | 9 |
| FR0007 | Admin can track batch | Monitor product batches, record expiry dates, and prevent expired products from being shipped. | 8 |
| FR0008 | Admin can manage suppliers | Maintain supplier details, order history, and payment records to ensure timely raw material procurement. | 9 |
| FR0009 | Admin can manage order processing | Manage customer orders, verify availability, and prioritize urgent shipments. | 8 |
| FR00010 | User can track real time delivery | Provide customers with live tracking updates on their orders | 7 |
| FR0011 | User have multiple payment option | Support cash-on-delivery, online payments, and credit purchases for wholesale buyers. | 7 |
| NFR001 | System must be connected to Internet | System must be connected to Internet to operate the Application | 8 |
| NFR002 | Performance and scalability | system should handle at least 1000 concurrent users | 7 |
| NFR003 | Applicable in android, iOS and Desktop | User-friendly interface for mobile and web platforms | 8 |
| FR0012 | Admin can generate sales report and invoice | Admin can generate invoice for user and sales report for the company | 8 |

* **Risks**
* Delivery delays due to traffic/weather.
* System downtime affecting order processing.
* Fraudulent transactions and payment failures.
* Perishable inventory management challenges.
* **Constraints**
* Real-time updates depend on stable network connectivity.
* Compliance with food safety regulations.
* Seasonal demand fluctuations affecting stock levels.

**5. ERD of creating a support ticket**



**6. User stories (40)**

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| USER STORY NO. 1 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to sign up  So that I can create an account | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  User allow to enter email and password to register.  If the email is already in use, an error message is displayed | | |
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| USER STORY NO.2 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to log in using my credential  So that I can access my account | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  If credentials are incorrect, an error message is shown.  Password reset option is available. | | |
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| USER STORY NO. 3 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to browse different categories  So that I can explore available product | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Categories include ice cream, milk, flavored milk, yogurt, etc.  Clicking a category displays relevant products. | | |
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| USER STORY NO. 4 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to search for a product  So that I can quickly find what I need | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Users can enter keywords in the search bar.  Search results display matching products. | | |
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| USER STORY NO. 5 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to apply filters  So that I can refine product search results. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Filters include price range, flavor, brand, and dietary preferences.  Selected filters update the product list dynamically. | | |
| USER STORY NO. 6 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to view product details  So that I can see information before purchasing | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Product name, description, price, and ingredients are displayed. Nutritional values and allergens are shown. | | |

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| USER STORY NO. 7 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to product reviews and ratings  So that I can make an informed decision | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Average rating is displayed.  Customers can see individual reviews. | | |

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| USER STORY NO. 8 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to add products to my cart  So that I can buy multiple items. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Users can add products to the cart from the product page.  The cart icon updates with the number of items. | | |

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| USER STORY NO. 9 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to remove items from my cart  So that I can update my order | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Users can remove items with a delete button.  The total price updates accordingly | | |

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| USER STORY NO. 10 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to update the quantity of items in my cart  So that I can adjust my order | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Users can increase or decrease quantity.  Stock availability is validated. | | |

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| USER STORY NO. 11 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to view my cart summary  So that I can review my order before purchases | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Subtotal, discounts, and total price are displayed. | | |

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| USER STORY NO. 12 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to proceed to checkout  So that I can enter shipping and payment details | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Clicking "Checkout" takes users to a secure page. | | |

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| USER STORY NO. 13 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to enter my shipping address  So that my order is delivered correctly. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Address fields include street, city, postal code, and country. | | |

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| USER STORY NO. 14 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to choose my preferred delivery option  So that I can receive my order at my convenience. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Options include standard and express delivery. | | |

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| USER STORY NO. 15 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to select a payment method  So that I can complete my purchase. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Users can choose credit/debit card, PayPal, or cash on delivery. | | |

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| USER STORY NO. 17 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to receive an order confirmation email  So that I have proof of my purchase. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Email contains order details, delivery estimate, and tracking link. | | |

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| USER STORY NO. 18 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to rate and review products  So that others can benefit from my experience. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  User gets option to rate and review purchased product | | |

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| USER STORY NO. 19 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to view my past orders  So that reorder my favorite products easily | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  User can check past order and get reorder option. | | |

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| USER STORY NO. 20 | TASK 2 | PRIORITY: HIGHEST |
| As a customer  I want to contact customer support via chat or phone  So that I can resolve any issues with my order. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  User gets an option of customer support | | |

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| USER STORY NO.21 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to log in using my credential  So that I can access my account | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  If credentials are incorrect, an error message is shown.  Password reset option is available. | | |

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| USER STORY NO. 22 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to create, edit, and delete customer accounts  So that I can manage user access | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Admin can add new users with email and password.  Admin can update user details.  Admin can deactivate or delete accounts. | | |

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| USER STORY NO. 23 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to reset user passwords  So that I can assist customers with login issues | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Admin can send a password reset link.  Admin can generate a temporary password. | | |

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| USER STORY NO. 24 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to reset user passwords  So that I can assist customers with login issues | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Admin can send a password reset link.  Admin can generate a temporary password. | | |

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| USER STORY NO. 25 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to update product details  So that I can keep information accurate | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Admin can edit product name, price, and stock availability. | | |

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| USER STORY NO. 26 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to set discount prices  So that I can run promotional campaigns. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Admin can apply a discount percentage or fixed price cut.  Discounted price reflects in the store. | | |

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| USER STORY NO. 27 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to view all customer orders  So that I can monitor sales | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Admin sees order list with customer details, status, and total amount. | | |

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| USER STORY NO. 28 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to update order statuses (Processing, Shipped, Delivered)  So that customers are informed | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Order statuses update automatically and notify customers. | | |

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| USER STORY NO. 29 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to generate invoices for each order  So that maintain financial records**.** | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Admin can generate a PDF invoice for any order | | |

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| USER STORY NO. 30 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to process refunds  So that I can handle return | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Admin can issue partial or full refunds. | | |

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| USER STORY NO. 31 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to configure payment methods  So that customers have multiple payment options | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Admin can enable/disable payment methods like credit card, PayPal, or COD. | | |

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| USER STORY NO. 32 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to track product stock levels  So that I can manage inventory | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Admin receives alerts when stock is low. | | |
| USER STORY NO. 33 | TASK 2 | PRIORITY: HIGHEST |
| As an admin  I want to receive notifications for out-of-stock products  So that I can restock them | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Products automatically get marked as "Out of Stock" when inventory is zero. | | |

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| USER STORY NO. 34 | TASK 2 | PRIORITY: HIGHEST |
| As a delivery person  I want to receive order assignments on my mobile app  So that I can deliver them efficiently. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Orders assigned should appear on my dashboard.  Notifications should be sent for new assignments | | |

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| USER STORY NO. 35 | TASK 2 | PRIORITY: HIGHEST |
| As a delivery person  I want to view order details including address, customer contact, and order items  So that I can ensure accurate delivery | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Order details should include address, customer contact, and items.  A "Start Delivery" button should be available for tracking. | | |

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| USER STORY NO. 36 | TASK 2 | PRIORITY: HIGHEST |
| As a delivery person  I want to update the order status at each step  So that customers stay informed. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Status should change from "Picked Up" to "Out for Delivery" to "Delivered."  Customers should receive real-time updates. | | |

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| USER STORY NO. 37 | TASK 2 | PRIORITY: HIGHEST |
| As a delivery person  I want to contact the customer via call or message  So that I can clarify any address or delivery details. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  A "Call Customer" button should be available.  Customer numbers should be masked for privacy. | | |

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| USER STORY NO. 38 | TASK 2 | PRIORITY: HIGHEST |
| As a delivery person  I want to handle multiple deliveries in one trip  So that I can maximize efficiency. | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  The app should allow batch deliveries with optimized routes.  Orders should be prioritized based on time constraints. | | |

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| USER STORY NO. 39 | TASK 2 | PRIORITY: HIGHEST |
| As a delivery person  I want to collect cash payments securely  So that I can handle COD orders | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  The app should indicate COD orders. | | |

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| USER STORY NO. 40 | TASK 2 | PRIORITY: HIGHEST |
| As a delivery person  I want to confirm if an order is prepaid  So that I can I don't collect payment unnecessarily | | |
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| BV: 500 |  | CP: 2 |
| **Acceptance criteria**  Orders should clearly indicate "Paid" or "COD’’ | | |