

# Project Plan: New Feature for Food Ordering System

**Feature:** Real-Time Order Tracking

**Objective:** Enable customers to track the status of their food orders in real-time from order placement to delivery.

Backlog Items with Estimated Story Points

1. Design Order Tracking UI
  - Estimated Story Points: 3
2. Implement Order Status Updates (Backend)
  - Estimated Story Points: 5
3. Develop Order Status Update Notifications
  - Estimated Story Points: 3
4. Integrate Real-Time Tracking for Delivery Personnel
  - Estimated Story Points: 8
5. Test and Validate Order Tracking Functionality
  - Estimated Story Points: 3
6. Deploy Feature to Production
  - Estimated Story Points: 2

## Prioritized List of User Stories

**Epic:** Real-Time Order Tracking

### User Story 1: Design Order Tracking UI

- As a customer,
- I want to see a visual representation of my order status,
- So that I can know the progress of my order at a glance.

### Acceptance Criteria:

1. The UI should display different statuses like "Order Placed," "Preparing," "Out for Delivery," and "Delivered."
2. The UI should be visually appealing and aligned with the existing app design.

### User Story 2: Implement Order Status Updates (Backend)

- As a backend developer,
- I want to implement the logic for updating order statuses,
- So that the order status can be accurately reflected in real-time.

**Acceptance Criteria:**

1. The system should update the order status based on predefined events (e.g., order confirmed, food preparation started, delivery dispatched).
2. The order status should be stored in the database and retrievable via API.

**User Story 3: Develop Order Status Update Notifications**

- As a customer,
- I want to receive notifications about my order status,
- So that I am informed about the progress of my order.

**Acceptance Criteria:**

1. Notifications should be sent for each status change.
2. Notifications should be available via in-app messages and optionally via email/SMS.

**User Story 4: Integrate Real-Time Tracking for Delivery Personnel**

- As a customer,
- I want to track the delivery person's location in real-time,
- So that I can estimate when my order will arrive.

**Acceptance Criteria:**

1. The app should display the delivery person's current location on a map.
2. The location should be updated in real-time until the order is delivered.

**User Story 5: Test and Validate Order Tracking Functionality**

- As a QA engineer,
- I want to thoroughly test the order tracking feature,
- So that it works correctly and reliably.

**Acceptance Criteria:**

1. Test cases should cover all scenarios, including successful tracking and error handling.
2. Any identified bugs should be fixed and retested.

**User Story 6: Deploy Feature to Production**

- As a DevOps engineer,
- I want to deploy the order tracking feature to production,
- So that customers can start using it.

**Acceptance Criteria:**

1. The deployment should be seamless with no downtime.
2. The feature should be monitored post-deployment for any issues.

## **Sprint Plan**

### **Sprint 1:**

- Design Order Tracking UI (3 SP)
- Implement Order Status Updates (Backend) (5 SP)

### **Sprint 2:**

- Develop Order Status Update Notifications (3 SP)
- Integrate Real-Time Tracking for Delivery Personnel (8 SP)

### **Sprint 3:**

- Test and Validate Order Tracking Functionality (3 SP)
- Deploy Feature to Production (2 SP)

### **Total Story Points: 24**

This project plan outlines the development of a real-time order tracking feature, breaking down the work into prioritized user stories and estimating the effort required for each task. The plan includes clear acceptance criteria for each story to ensure the feature meets customer needs and quality standards.