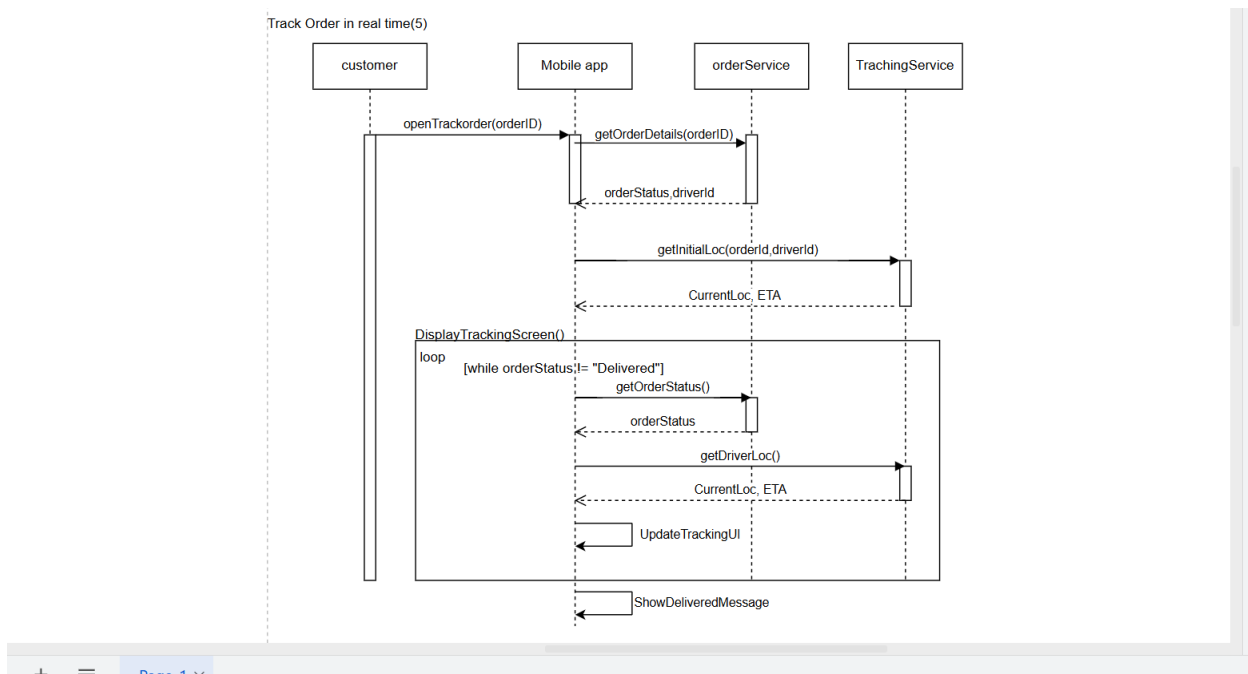# Food delivery application 2

Description of the system:

The Food Delivery Application allows customers to browse restaurants, view menus, customize orders, and choose from multiple payment options. Restaurants can manage their menus and update order statuses, while delivery drivers provide real-time location and delivery updates. Customers can track their orders on a live map with continuous status notifications .The system is designed to handle many users at the same time, protect sensitive data through secure authentication and encryption, and respond quickly to user actions. Its interface is simple, intuitive, and reliable across all devices to ensure a smooth user experience

FR5(sequence diagram):

 The sequence diagram illustrates how the customer, mobile app, order service, and tracking service interact to enable real-time order tracking. The flow begins when the customer opens the tracking page, prompting the mobile app to request order details from the order service and the driver's initial location from the tracking service. After displaying the tracking screen, the app repeatedly requests updated order status and driver location inside a loop, updating the interface until the order is delivered. Once the system returns a "Delivered" status, the loop ends and the app notifies the customer

FR5(BPMN diagram):

The BPMN diagram represents the real-time tracking process across two lanes: the customer and the system. The process starts when the customer selects an order to track, sending a message to the system to retrieve order details and driver location. The system processes the request and returns tracking data. The customer then views the updated map and enters a waiting step. A gateway checks whether the order is delivered: if not, the process loops back to request new updates; if yes, the customer receives a final delivery notification and the process ends. The diagram clearly shows message flows, system actions, and the loop for continuous updates