**Design Problem: Delivery Company Software**

**Introduction:** This technical document outlines the requirements for the development of a software solution for a delivery company. The software will have a SAAS type front page with a delivery tab that allows guest users to place orders. The software will be integrated with Google Maps API to calculate the distance from pickup point to delivery point and show the delivery price. The software will also have a dashboard for bulk orders and order tracking. Payment processing will be integrated for customers to pay for their orders online. Managers will also have a dashboard to track and fulfill delivery orders. User feedback will be collected periodically, and analytics will be tracked to monitor data such as delivery times, order volume, and customer feedback.

**Functional Requirements:**

1. **Delivery Tab**: The delivery tab will allow guest users to place orders. The software will be integrated with Google Maps API to calculate the distance from the pickup point to the delivery point and show the delivery price. Users will be required to input the receiver and sender's contact details.
2. **Dashboard**: The software will have a dashboard that allows bulk orders and order tracking. Managers will have their own personal dashboard to track and fulfill delivery orders. The dashboard will include alerts and notifications when a delivery is placed.
3. **Payment Processing**: Payment processing will be integrated for customers to pay for their orders online. The software will allow for various payment methods such as credit/debit card, PayPal, or other online payment gateways.
4. **User Feedback**: User feedback will be collected periodically to improve the software's user experience and overall functionality.
5. **Analytics**: The software will have an analytics tab that allows tracking and analyzing data such as delivery times, order volume, and customer feedback.
6. **SMS Functionality**: SMS functionality will be integrated to notify receivers of their packages. Customers will receive SMS notifications regarding the delivery status of their packages.

**Non-Functional Requirements:**

1. **Security**: The software will be designed with strong security measures to ensure that all user data is secure and protected from potential attacks.
2. **Scalability**: The software will be designed to handle a large volume of orders, users, and data, with the ability to scale as the business grows.
3. **Performance**: The software will be designed to be fast and efficient, with quick response times for all user interactions.
4. **Compatibility**: The software will be compatible with all major web browsers and mobile devices.

**API Endpoints**: The software will have API endpoints to allow for integration with other third-party software solutions. The API endpoints will be secure and follow industry-standard protocols to ensure data integrity and security.

**Conclusion**: The software solution for the delivery company will include a delivery tab for placing orders, a dashboard for bulk orders and order tracking, payment processing, user feedback collection, analytics tracking, SMS functionality, and API endpoints. The software will be designed with strong security measures, scalability, performance, and compatibility with all major web browsers and mobile devices.