

Goods Flow Logistics System Project	Version: <2.0>
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Team - Andre Kim

**Goods Flow Logistics System
Software Requirements Specification Version
<2.0>**

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Software Requirements Specification

1. Introduction

The introduction of Software Requirements Specification (SRS) for the Goods Flow logistics System covers an overview of an entire SRS, which is its purposes, scope of use, definitions, acronyms, and other abbreviations and references. The focus of this document is to collect, analyze, and give deep insight into a distribution center and tracking services. That is possible by defining a detailed description of the problem by focusing on the functions and needs of stakeholders while finding problems while defining product characteristics at a high level. Exact tracking requirements can be provided in this document.

1.1 Purpose

The purpose of this document is to collect and analyze: The definition of package tracking and the requirements that consumers and stakeholders expect. Also, we can increase our understanding of the Package Tracking project by collecting and analyzing these things.

In a nutshell, the purpose of this document is to provide a high-level overview and detailed description of Package Tracking. It will describe the information of the target users of this project and the user interface. Furthermore, we can expect that it will be able to help designers and developers working on similar projects.

1.2 Scope

Primarily the scope is related to the e-Logistics function. It focuses on the needs of sellers, carriers, and shopping malls. Package Tracking aims to improve the quality of logistics services by solving problems with sellers, delivery companies, and shopping malls expected as main stakeholders with online technology. We can also help customers choose another tracking service. It can be used as a standard model for logistics services because it covers the overall functions of logistics. Customers can also get a description of what kind of information and features are required for the Goods Flow Logistics System.

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1.3 Definitions, Acronyms, and Abbreviations

Tracking number	numbers assigned to packages when they are shipped.
Courier contract code	Code issued when contracting with a courier company
e-SCM	Electronic Supply Chain Management
ILCP	Integrated Logistics Controlling Program
FAQ	Frequently Asked Questions
Client	A consumer which differs to the company

1.4 References

Currently, there are no references.

1.5 Overview

The remaining sections of this document provide a general description, including characteristics of the users of this project, the product's hardware, and the product's environmental, functional, and data requirements. Section 2 gives the environmental requirements, functional requirements, data requirements, constraints, and assumptions made while designing the E-Logistics. It also gives the user viewpoint of the product. Section 2 also gives the specific requirements of the product. Section 2 also discusses the external interface requirements and gives a detailed description of functional requirements. Section 3 is for supporting information.

2. Specific Requirements

The specific requirements are –

2.1 Functionality

Introduction –

This subsection contains the requirements for e-Logistics.

2.1.1 Receive order information from the customer company

The system shall receive order information from the customer company.

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2.1.2 *Request delivery to the carrier*

The system shall request delivery to the carrier.

The system shall link the courier contract code to the shipping company.

2.1.3 *Receive tracking information from the carrier*

The system shall receive the tracking number from the courier.

The system shall receive the delivery status for the tracking number.

The system shall receive the delivery status when the data is updated.

The system shall receive real-time delivery information for overseas.

The system shall receive an estimated delivery time from the courier.

2.1.4 *Transfer tracking information to the customer company.*

The system shall inform the customer company of the invoice number.

The system shall update the delivery status when the package arrives at the hub.

2.1.5 *Offer services for the client*

2.1.5.1 *Give information to the client*

The system shall display the status when the package arrives at the hub.

The system shall display the tracking number.

The system shall display the product name.

The system shall display the shipper and consignee.

The system shall display the delivery point.

The system shall display the customer's phone number.

The system shall display the delivery man's name.

The system shall check the delivery status at any time.

The system shall allow users to access the tracking information.

The system shall display the current tracking information about the order.

2.1.5.2 *Check transit requests from the client*

The system shall provide a temporary phone number for safety.

The system shall vouch for a communication through the temporary number.

The system shall terminate the temporary number at the end of the transaction.

2.1.6 *Should monitor the system*

The system shall monitor the whole process.

2.1.7 *Offer delivery system*

The system shall provide abundant courier companies.

The system shall provide various contract terms.

The system shall provide ILCP.

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The system shall provide logistics center.

The system shall construct an integrated logistics warehouse for companies.

The system shall negotiate courier contracts (case-by-case payment, guarantee insurance, margin, etc.)

The system shall define the procedures for using affiliate courier service as affiliated courier service use procedure, customer subscription application, manager approval, courier service contract conclusion, e-SCM.

The system shall provide installation and use of e-SCM free of charge.

The system shall provide fast delivery in the metropolitan area.

2.1.8 Offer returns

The system shall provide a return service.

The system shall define the procedures for the package returns system as the customer's subscription application, manager approval, and return application process.

The system shall sign a new contract with the courier company dedicated to the customer.

2.1.9 Maintain customer profile.

The system shall allow the user to create a profile and set his information.

The system shall allow the user to update the profile information.

The system shall allow the user to delete the profile.

2.1.10 Provide Customer Support.

The system shall provide online help.

The system shall display online help upon request.

The system shall provide FAQ customer support.

The system shall display the FAQs upon request.

The system shall provide sitemap options for customer support.

The system shall allow the user to select the support type he wants.

The system shall allow the users to enter the customer and system information for support.

The system shall display the customer support contact numbers on the screen.

2.1.11 Kakao Message confirmation

The system shall maintain customer's Kakao ID information.

The system shall send a tracking information to the user through Kakao message.

2.1.12 Provide multiple shipping methods for the client.

The system shall provide different shipping options provided by the shipping department (courier, freight, quick).

The system shall enable the users to select the shipping method.

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2.1.13 *Provide detailed sitemap.*

The system shall allow the user to view detailed sitemap.

2.2 Usability

2.2.1 *Graphical User Interface*

The system shall provide a uniform look and feel between all the web pages.

The system shall display the name of the courier company as the logo.

2.2.1.1 *GUI for websites*

The system shall display only 10 results on the current screen.

2.2.1.2 *GUI for application*

The system shall provide the use of icons and a menu.

The system shall display all package list on the current screen.

The system shall provide a scrolling on the shipping check page.

The system shall provide a pull to refresh UI.

2.2.2 *Accessibility*

The system shall provide web pages and app access.

The system shall provide multi-language support to countries that provide service.

2.3 Reliability & Availability

2.3.1 *Data storage*

The system shall provide storage of all data on enough volumes.

The system shall provide for the replication of data to off-site storage locations.

The system shall provide data recovery on all storage disks.

2.3.2 *Internet service provider*

The system shall provide a contractual agreement with an internet service provider.

The system shall provide the internet by network facilities of the provider.

2.4 Performance

The system shall be based on the web and must be run from a web server.

The system shall be run on Android and IOS.

The system shall provide a different response time for each country.

The system shall provide server that can serve abundant users.

The performance shall depend upon the hardware components of the client/customer.

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2.5 Security

2.5.1 Data Transfer

The system shall use secure sockets in all transactions that include any confidential customer information.

The system shall confirm all transactions with the customer's web browser.

The system shall not leave any cookies on the customer's computer containing the user's phone number.

The system shall not leave any cookies on the customer's computer containing the user's address.

2.5.2 Data Storage

The system's storage shall never display a customer's personal information.

The system's storage shall only be accessible to authenticated administrators.

The system's storage shall be encrypted.

2.6 Design Constraints

2.6.1 Standard Development Tools

The system shall be built using python and MySQL and tested it can be driven in application and website by making a prototype.

2.6.2 Website

There are no memory requirements.

The computers must be equipped with web browsers such as Chrome.

The product must be stored in such a way that allows the client easy access to it.

General knowledge of basic computer skills is required to use the product.

2.6.3 Application

The app size should be less than 1GB.

The device must be equipped with a wireless internet connection.

General knowledge of basic application skills is required to use the product.

2.6.4 On-line User Documentation and Help System Requirements

As the product is Good Flow system, the Online help system becomes a critical component of the system which shall provide –

2.6.4.1 Help System for a client who is using an application and website

It shall provide specific guidelines to a user for using the webpage and application system.

To implement online user help, link and search fields shall be provided.

To implement online user help, a menu bar shall be provided.

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2.6.4.2 Help System for Customer Company

The system shall provide specific guidelines to a user for using the Goods Flow system.

The system shall provide link and search fields to implement online user help.

The system shall provide e-SCM program.

2.6.4.3 Help System for carrier

The system shall provide specific guidelines to a user for using the Goods Flow system.

The system shall provide link and search field.

2.7 Interfaces

There are many types of interfaces as such supported by the Goods Flow system namely; User Interface, Software Interface, and Hardware Interface. However, in this prototype, you can test it on a local computer.

There shall be a logical address of the system in IPv4 format.

The test IP address will be 127.0.0.1.

2.7.1 User interfaces

The user interface for the software shall be compatible with the browser specified in this document: Chrome, Firefox, and Explorer.

2.7.2 Hardware interfaces

Since the application must run over the internet, all the hardware shall require connecting internet will be the hardware interface for the system. E.g. Modem, WAN – LAN, Ethernet Cross-Cable.

2.7.3 Wireless internet interface

The wireless internet interface for the software shall be compatible with the browser specified on this document: Chrome, Firefox, and Explorer.

2.7.4 Software interfaces

The Goods Flow system shall communicate with the customer company to get the order information.

The Goods Flow system shall communicate with the ILCP to provide support.

The Goods Flow system shall communicate with the shipping system for tracking orders and updating shipping methods.

The Goods Flow system shall communicate with the export regulation system to validate export regulations.

2.7.5 Communication interfaces

The Goods Flow system shall use the HTTP protocol for communication over the internet and the intranet communication will be through TCP/IP protocol suite.

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The prototype shall use TCP/IP protocol in local IP for the test.

2.8 Legal, copyright, and other notices

The system should display the Goods Flow disclaimers, copyright, wordmark, trademark, and product warranties.

2.9 Applicable standards

It shall be as per the industry standard.

3 Supporting information