

# **Quarantivity Requirements Specification**

**Version 1.0**

**March 19,**

## Table of Contents

<b>1. EXECUTIVE SUMMARY .....</b>	<b>3</b>
1.1 PROJECT OVERVIEW .....	3
1.2 PURPOSE AND SCOPE OF THIS SPECIFICATION .....	3
<b>2. PRODUCT/SERVICE DESCRIPTION.....</b>	<b>4</b>
2.1 PRODUCT CONTEXT .....	4
2.2 USER CHARACTERISTICS .....	4
2.3 ASSUMPTIONS .....	4
2.4 CONSTRAINTS .....	5
2.5 DEPENDENCIES.....	5
<b>3. REQUIREMENTS .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
3.1 FUNCTIONAL REQUIREMENTS .....	ERROR! BOOKMARK NOT DEFINED.
3.2 NON-FUNCTIONAL REQUIREMENTS .....	ERROR! BOOKMARK NOT DEFINED.
3.2.1 <i>User Interface Requirements</i> .....	<b>ERROR!</b> BOOKMARK NOT DEFINED.
3.2.2 <i>Usability</i> .....	ERROR! BOOKMARK NOT DEFINED.
3.2.3 <i>Performance</i> .....	ERROR! BOOKMARK NOT DEFINED.
3.2.4 <i>Manageability/Maintainability</i> .....	ERROR! BOOKMARK NOT DEFINED.
3.2.5 <i>System Interface/Integration</i> .....	ERROR! BOOKMARK NOT DEFINED.
3.2.6 <i>Security</i> .....	ERROR! BOOKMARK NOT DEFINED.
3.2.7 <i>Data Management</i> .....	ERROR! BOOKMARK NOT DEFINED.
3.2.8 <i>Standards Compliance</i> .....	ERROR! BOOKMARK NOT DEFINED.
3.2.9 <i>Portability</i> .....	ERROR! BOOKMARK NOT DEFINED.
3.2.10 <i>Other Non-Functional Requirements</i> .....	ERROR! BOOKMARK NOT DEFINED.
3.3 DOMAIN REQUIREMENTS.....	ERROR! BOOKMARK NOT DEFINED.
<b>4. USER SCENARIOS/USE CASES .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
<b>APPENDIX .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
APPENDIX A. DEFINITIONS, ACRONYMS, AND ABBREVIATIONS .....	ERROR! BOOKMARK NOT DEFINED.
APPENDIX B. REFERENCES.....	ERROR! BOOKMARK NOT DEFINED.
APPENDIX C. REQUIREMENTS TRACEABILITY MATRIX.....	ERROR! BOOKMARK NOT DEFINED.
APPENDIX D. ORGANIZING THE REQUIREMENTS .....	ERROR! BOOKMARK NOT DEFINED.

## **1. Executive Summary**

### ***1.1 Project Overview***

Companies are always trying to make their work easier and more efficient. Considering that distribution companies can face some difficulties in dealing with their job in their working daily life, an online distribution management system would be a solution. What the distribution management system would do is that it would give the business a more clear sight when it comes to inventories, monitoring of the operation in the field, financial issues, sales and management.

What we will do to reduce these kind of difficulties, is that through our online system we provide an easier way to deal with tasks, to keep track of every move through GPS system so we can see the route's an employee takes to deliver goods because this way would also help us to find which route is faster and consumes less fuel, to automate and optimize the day-to-day transactions. We also found convenient to use a batch tracking that would allow us to group and monitor a set of stock that share similar properties, quickly track and trace all the products with ease and also to keep an eye on expiry dates at a quick glance in order to act quickly. The use of ABC analysis gives us a view of the most important to least important items.

Our system will consist of an admin page who will be the one responsible for dealing with the agents. He will have a full view of everything happening in the system. He will have a more precise view of the inventory; will deal with assigning the tasks, check reports and all the performances of the everyday operations, update the system to make it more efficient and to manage its structure. As for the employees we will have another one, which will show every step of their operation, from the minute they take the order until the deliver it to the right address.

### ***1.2 Purpose and Scope that of this Specification***

The Online Distribution management system has the purpose to track workforce performance and automate workforce scheduling in order to have more accurate results and to help the business in their operations and management.

Through this system will be easier to find out if the products have arrived in their destination in the right time or if there are any delays in reaching the product destination. It will improve the reliability levels; have more efficient results and managing the distribution of the products in a safer way.

## **2. Product/Service Description**

Our Online Distribution Management System is for a company known as Egema Shpk, a distribution company which delivers mostly products like snacks in stores and supermarkets. As they face different problems in their operations as most of the businesses do, our online system would make their work easier and more accurate. We are offering a system that gives more visibility to the business.

So keeping in track of the employee's route, using a batch tracking system for the products to have a view at the expiry dates, having a real time inventory would help and reduce the business' work, giving them better results in their performance. Our service would make their distribution more efficient so that they manage their business operation in a better way.

### **2.1 Product Context**

The system will be an independent one which will be accessible from the, admin, employees. Admin will have the main access in the system. It will also include information about employees, sales, inventories and financial issues.

### **2.2 User Characteristics**

The system will have admin, user and sales profile:

- The admin interface will manage everything it's structure and contents, update the system when needed to increase its efficiency and install the latest extensions.
- The user interface or staff interface we will keep everything simple and create consistency, we will also use common UI elements.
- As for the sales agent we will have another interface which will show the moment the take the order until it delivered to the address. Also, to find as many new clients as possible and fill out the report for better tracking performance of our deliveries.
- We will have a inventory supervisor who will notify when we need to make new orders and also see all the shipping costs, holding costs etc. He can also add and delete new products.
- The delivery employee which will be responsible for delivering products to the corresponding address.

### **2.3 Assumptions**

- We assume that our system will be compatible with most of the operating systems because some are faster at handling apps for example Mac OS.
- We assume that the delivery employee will find the fastest route and deliver the products on time and not face any problems.
- We assume that all of our employees will be able to use the application we provide them.\
- We assume that our software will have the proper billing and receipt format for our delivery employees.

## ***2.4 Constraints***

We think our system will face constraints like:

- By internet connection as it might get disconnected.
- All of the employees must be equipped with smartphones.
- It might not be compatible with older versions of OS and smartphones
- The need for fast internet connection.
- The client can access the application by a pre-registered account by a manager.

## ***2.5 Dependencies***

- Because our application will be web-based one it will require a fast internet connection preferably 10mpbs or higher.
- The client needs to be identified by their NIPT to see if they are existing in the market or not based on QKB.
- All devices should be compatible with the application.
- The accounts for the employees will be provided by the administrator.