[Distribution System] Requirements Specification

Version 1.0

April 14, 2020

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1. Executive Summary

1.1 Project Overview

Nowadays we live in a world where technology is helping us to improve our lives and also achieve better results in different businesses. Having the same mission which is to help businesses the aim of the software we are creating is to increase the yearly profits of a company which distributes sweets throughout Albania.

Our idea consists of creating a system where we are aiming to register all the markets and shops in Albania especially in Tirana which has the biggest number of markets.

In this software each market can view the products and can also order the what he is needing for his personal market.

1.2 Purpose and Scope of This Specification

The purpose of the Online Distribution system is to:

- Evaluate the performance of our workforce in order to have better and more efficient
  results
- Have more consistent and accurate results

By creating this system our business will have an easier and faster way to keep track of every data in

the business .It will also be easier to see if the products have reached the customer needs, meaning

it will refine the certainty and management levels.

2. Product/Service Description

2.1 Product Context

Our online system is going to help Kida 2001 sh.p.k, which is a distribution company that delivers products such sweets throughout the country. By the use of our system the name of the company will be better spreaded, and so products of the company will become better known from clients. We are hoping to help the company increase their profits. We are going to create an independent system which is going to be used and accessed by the admin and also by clients(shops). Clients are continuously making orders while admin is looking and accepting orders.

The system will include information about the products, inventories, accounting, currency exchange, main info about the company.

2.2 User Characteristics

There are 3 types of users that will interact with our system:

1. Client

- Can create their own account.
- Can order which products they would like to purchase.
- Can read their personal data.
- Can read information about our company.
- Can check the money exchange web page to observe currencies.
- Can contact the company.
- Can log out.

2. Admin

- Can access account anytime.
- Can check the orders that have been submitted by the clients.
- Can check the orders that have been delivered to the clients.

- Can contact clients.
- Can check the bills and orders that the company is making from
- the suppliers.
- Can check reports.
- Can log out.

3.Employees

- Categorized in two categories(warehouse and delivery employees)
- Their duty in the system is to mark when orders are ready or when orders are delivered.

2.3 Assumptions

It is assumed that:

1. All users have basic knowledge in English Language.

2. Users have basic knowledge in smartphone and computer usage.

3. Admin must be logged in during working hours to check orders.

4. Every customer should be limited to watching only his orders and not

interfere with other customers.

5. It is assumed that the personal information of the clients is confidential.

6. Every completed order must be stored in the system for documentation

and report purposes.

7. The state billing system is integrated within the software.

2.4 Constraints

- An internet-accessible electronic device is needed to access the program.
- The client needs to be registered to use our program.
- Management and security.
- Network issues.

- other design constraints (e.g., design or framework depending on the device the program is being used)

2.5 Dependencies:

- The internet connection is a must for client to use the program. A connection is needed to place
- orders.
- If the admin is not registered in the system, other users will not be registered.

3. Requirements

3.1 Functional Requirements

Priorities classification:

- Priority 1 – The requirement is a "must have" as outlined by policy/law
- Priority 2 – The requirement is needed for improved processing, and the fulfillment of the requirement will create immediate benefits
- Priority 3 – The requirement is a "nice to have" which may include new functionality

Req#	Requirement	Comments	Priority	Date reviewed	SME reviewed/approved
BR_01	Every client must have his unique username and password to access the system.	The passwords and usernames will be saved in database.	1		
BR_02	Login constraint	Every user (client) have to be logged	1		

		in to access the data of the system.			
BR_03	Each client can access only his own profile.	Clients cannot see orders and profiles of other clients	1		
BR_04	Every client's profile should be fulfilled with his shop address and contacts.	Company needs specific address for order delivery.	2		
BR_05	The client will be able to see all the products.	Products will be listed in database together with a picture of them.	2		
BR_06	Clients can access from our system one of the best exchange companies.	Our company has always been close to Iliria'98 for money exchange.	3		
BR_07	Clients are able to see general information about our company.	There will be an "about us" feature in the system.	3		
BR_08	Every client will be able to see his order(bill).	System should offer that at least the last order should be viewed by each client.	2		
BR_09	Clients can order immediately online or by communicating with the manager.	Client can use his account to order.	2		
BR_10	At home page client can view a catalog of top/new/promotions products	This will be as attractive and user friendly as possible.	2		
BR_11	Employees will be registered or divided in 2 categories.	There will be delivery employees and	3		

		warehouse employees.			
BR_12	Warehouse employees will be responsible for loading the shipments.	This process will be controlled by the manager.	2		
BR_13	Warehouse employees will have to mark the order.	Mark the order if ready or not.	1		
BR_14	Delivery employee will be responsible for taking the order from the warehouse and transporting it to the right address.	The main task of this employee will be delivering.	2		
BR_15	Delivery employee has to mark the order after delivery.	Delivery employee will have to mark the order Delivered or not.	1		
BR_16	The manager(admin) has access to clients/database/employees	Manager requires to approach details for employees and clients.	1		
BR_17	Manage inventory	Only manager can add new products and see the stocks.	1		
BR_18	Manager can view the bills from our suppliers.	This will help managers manage the stock.	1		
BR_19	Inventory should show the live stock in warehouse.	This will be accessed by the manager.	2		
BR_20	Admin will be able to add or remove employees.	New employee will be registered in one of the categories.	2		

3.2 Non-functional Requirements

3.2.1 Product Requirements

3.2.1.1 Usability

- It will be easy to access in real time from different browsers online since the system is web based.

- It shall be easy for the user to understand and use the system.

- The system should allow users to practically and reliably manage their data.

- The system is designed to be fast and efficient.

3.2.1.2 Efficiency Requirements

3.2.1.2.1 Performance Requirements

- Our system will be a web-application that will be stored in a web server.

- It will be designed to support multiple users at the same time, by multiple interfaces.

- The system will need a good ISP with strong internet to work properly.

3.2.1.2.2 Space Requirements

3.2.1.2.2.1 Capacity

There is no need for capacity occupation in our mobile phones, computers or other devices, since our system is web-based. Internet connection is a key element when performance is considered but we will make sure that the application works even if there is low internet strength provided.

The system can be accessed by multiple users anytime, but as a medium-size organization, it is not expected to be accessed by a very large number of users. Being said that, the database that is going to be used will not be very complex, but also it will be capable enough to store everything that is needed.

3.2.1.2.2.2 Availability

The system will operate 7 hours a day, each day of the week and it can be accessed by users for as long as they have internet connection.

The system will be distributed only in Albania and can be used only in English language.

Different types of users will have different availability and access.

3.2.1.2.2.3 Latency

The website loading will be completed within less than 4 seconds. On average a simple process shall not take more than 2 seconds to complete. In order to be efficient and productive, DMS is expected to fulfil some time limitations such as (also depending on internet speed and database size).

3.2.1.3 Dependability Requirements

3.2.1.4 Security Requirements

Protection

To protect data in system from destruction, etc. a validation of data is required before entering to the database.

Functions by using regular expressions, will check for authentication of:

Ø password

Ø Email address

Ø Username

By encrypting information such as password, using hash methods to protect

privacy.

Admin will control information of other users while employees will check only

information related to them.

Some methods are taken when added new employee or when changing employee

data.

Security of the system will be achieved by:

Ø Encryption

Ø Activity logging

Ø Data integrity check

3.2.2 Organizational Requirements

3.2.2.1 Environmental Requirements

The user must have an internet connection so they can use the application.

This application will be focused on being as efficient as possible for both, the

company(admin,employees) and also the clients(users).

Users should be able to operate properly by accessing the system and the

menu(main tab) so they can select proper products.

3.2.2.2 Operational Requirements

There are three types of users:

- Admin
- Employee(divided in two groups)
- Clients

The user will be able and responsible for these operations:

1. Create a user/Login(clients)

2. Make orders(clients)

3. Edit/Modify personal information(admin)

4. Check stock inventory(admin)

5. Check last orders(clients)

6. Check the orders of the clients and company's bills to suppliers(admin)

7. Complete/delivered orders(employee)

3.2.2.3 Development Requirements

The system is going to operate as long as it is supported by a database in phpMyAdmin platform. Once the construction and the design of the application is finished and its system interface is accordingly connected with the database it is its duty to manage the avoidance of any possible error occurrence. Also the administrator and the manager of the company who have the most system access can make any changes in the database, if needed.

3.2.3 External Requirements

3.2.3.1 Legislative Requirements

3.2.3.1.1 Safety/Security Requirements

Safety requirements ensure a safe design. System requirements must address the expectations of the customer in terms of safe system operation.

Warehouse employees will work in groups so they can face different problems when loading the shipments because sometimes the boxes of products can be heavy and cause injuries.

Clients together with delivery employees should arrange the boxes of products cooperating together when the order is delivered to specific client.

3.2.3.1.2 Accounting Requirements

Regarding the Client relationship, the billing format of each of the clients' orders will be made according to the Law: Nr.92/14 "**Për Tatimin** mbi **Vlerën e Shtuar**" which states that value with VAT must be included and represented according to a specific standard.

Regarding the Employees relationship, everything will be done according to the law standards of "Inspektoriati i Punes".

The Law on Accounting and Financial Statement No. 9228 of 2004 determines the financial reporting requirements applicable in Albania. For general purpose financial reporting, two reporting frameworks are applicable in the jurisdiction: (i) National Accounting Standards (NAS) and (ii) IFRS as issued by the IASB, translated and published in Albanian language by the National Accounting Council (NAC).

The following entities are required to apply IFRS: (a) listed companies and subsidiaries of listed companies; (b) banks and non-banking financial institutions; (c) investment firms; and (d) large non-listed companies meeting defined thresholds determined by a Government decree.

Other entities, mostly small and medium-sized entities, use NAS issued by the NAC and approved by the Ministry of Finance of Albania in accordance with the procedures established under Law No. 9228. NAS are based on the international standards. In 2015, the NAC with the assistance of the World Bank completed the revision of NAS to bring them closer in line with the requirements of IFRS for SMEs.

The Law on Statutory Audit and Organization of the Accountancy Profession No. 10091 of 2009 modified in April 2016 by Law No. 47/2016, stipulates provisions

governing audit of financial statements. The law requires application of ISA in statutory audits of entities that meet certain thresholds, including those entities which apply IFRS and joint stock companies which apply NAS.

The Albanian Institute of Authorized Chartered Auditors is responsible for the translation of ISA in Albania and, as of 2019, has translated the 2016 version of the standards.

3.2.3.2 Ethical Requirements

Every clients personal information, more importantly his orders and bills will be seen only by client itself and the admin or manager. His information will not be able to be accessed by other clients or other employees of the company.

3.2.3.3 Regulatory Requirements

3.3 Domain Requirements

The system manages and covers everything related to the distribution process for an existing medium-size business. It should be able to add and update employees and clients and store tabs of information on the database. The idea is that the program should operate to make it more efficient and easier for clients and the company to communicate by using this system.