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# Project - 2

# Software Requirements Specification Document of An Ecommerce Website

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# 1. Introduction

This section will describe the scope of this software requirement specification document. The primary perpose of this document is to provide a clear statement between the developers and the customers. This document aims to describe functional and nonfunctional requirements that are imposed on the implementation of software product.

## 1.1. Purpose

This Software Requirements Specification document illustrates the functionalities and other nonfunctional constraints on the ecommerce website specified by the lecturer of the lesson SWE530 Software Design Process at Boğaziçi University.

The intended audience of this document is Professor Fikret Gürgen.

## 1.2. Scope

The system that will be developed will be providing anyone not only who wants to sell something on the Internet and but also who wants to buy something they need easily. The system is cross-platform and it can be accessable and usable through any of the computer platforms, browsers and mobile devices.

The system will be providing simple, efficient and useful purchase experience and also safe, secure and trusted shopping experience to the all users. The users can be able to sell and purchase almost everything that they can find in a big mall.

The users will be able to go through the system and see all the details of the things selling on the system without creating or providing their information to the system

# 2. Requirements

## 2.1. Functional Requirements for Customers

### 2.1.1. Functional requirement 1

ID : CFR1

Description : Users shall be able to get around the system without registering or logging into the system.

### 2.1.2. Functional requirement 2

ID : CFR2

Description : Users shall be able to look at the all details of every assets, products or resources which are being sold on the system.

### 2.1.3. Functional requirement 3

ID : CFR3

Description : The system shall be able to allow the users to add the products to their carts without requesting login or registration.

### 2.1.4. Functional requirement 4

ID : CFR4

Description : The system shall require login or registration from the users who want to pay the things that they have in their carts.

### 2.1.5. Functional requirement 5

ID : CFR5

Description : The system shall be able to provide login or registration functionality to the users on every single page.

### 2.1.6. Functional requirement 6

ID : CFR6

Description : The users shall fill out a form containing these information when registering.

| Field Name | Mandatory or Optional |
|---|---|
| Name | Mandatory |
| Surname | Mandatory |
| Email | Mandatory |
| Password | Mandatory |
| Birth Date | Optional |
| Address | Optional |
| GSM Phone | Optional |

### 2.1.7. Functional requirement 7

ID : CFR7

Description : The system shall be able to send a validation email with a validation link to the email address provided by the customer when submitting the registration form.

Dependency : CFR6

### 2.1.8. Functional requirement 8

ID : CFR8

Description : The system shall be able to display a message after sending validation email.

Dependency : CFR7

### 2.1.9. Functional requirement 9

ID : CFR9

Description : The system shall be able to redirect the user to the dashboard page after validation completed by clicking the link.

Dependency : CFR7

### 2.1.10. Functional requirement 10

ID : CFR10

Description : The system shall allow the user to get around without completing registration process.

Dependency : CFR7

### 2.1.11. Functional requirement 11

ID : CFR11

Description : The system shall check the address and contact information of registered users before completing purchase.

Dependency : CFR9

### 2.1.12. Functional requirement 12

ID : CFR12

Description : The system shall allow only users  who validated their email address.

Dependency : CFR9

### 2.1.13. Functional requirement 13

ID : CFR13

Description : The system shall allow the users to search the things by providing some of keywords.

### 2.1.14. Functional requirement 14

ID : CFR14

Description : The system shall allow the users to update their address and contact information.

Dependency : CFR7

### 2.1.15. Functional requirement 15

ID : CFR15

Description : The system shall provide login functionality with email address and password.

### 2.1.16. Functional requirement 16

ID : CFR16

Description : The system shall provide different payment methods such as Masterpass, MOTO transaction and money transfer.

Dependency : CFR9

### 2.1.17. Functional requirement 17

ID : CFR17

Description : The system shall assign a unique number for every single purchase.

Dependency : CFR9

### 2.1.18. Functional requirement 18

ID : CFR18

Description : The system should send an email which contains the transaction details below.

- The name of dealer
- The amount and currency of the transaction
- The information of the all products
- The address which the product will be shipped.
- The payment information
- Customer services contact information

Dependency : CFR9 and CFR17

### 2.1.19. Functional requirement 19

ID : CFR19

Description : The system shall check the detailer account information when the customer chose the "transfer money" as a payment method and if there is no account information found, propose another payment method to the customer.

Dependency : CFR9 and CFR16

### 2.1.20. Functional requirement 20

ID : CFR20

Description : The customers should be able to approve the payment of their orders after they had them.

Dependency : CFR9 and CFR18

## 2.2. Functional Requirements for Dealers

### 2.2.1. Functional requirement 1

ID : DFR1

Description : The system shall provide a different login page apart from the customers.

### 2.2.2. Functional requirement 2

ID : DFR2

Description : The dealers shall sign in the system before using dealer features.

### 2.2.3. Functional requirement 3

ID : DFR3

Description : The system shall be able to allow the dealers to log into the system with their email address and password by using dealer login page.

### 2.2.4. Functional requirement 4

ID : DFR4

Description : The dealers shall fill out a form containing these information when registering.

| Field Name | Mandatory or Optional |
|---|---|
| Organization Name | Mandatory |
| Name | Mandatory |
| Surname | Mandatory |
| Organization website address | Mandatory |
| Email | Mandatory |
| Password | Mandatory |
| Birth Date | Mandatory |
| Address | Mandatory |
| GSM Phone | Mandatory |
| Office Phone | Mandatory |
| Bank Name | Optional |
| Bank Account | Optional |
| Bank Account Holder Name | Optional |
| IBAN | Optional |

### 2.2.5. Functional requirement 5

ID : DFR5

Description : The system shall check the accordance of email address with organization website during registration.

### 2.2.6.   Functional requirement 6

ID : DFR6

Description : The system shall be able to send a validation email with a validation link to the email address provided by the dealer when submitting the registration form.

Dependency : DFR5

### 2.2.7.   Functional requirement 7

ID : DFR7

Description : The system shall be able to display a message after sending validation email.

Dependency : DFR6

### 2.2.8.   Functional requirement 8

ID : DFR8

Description : The system shall be able to redirect the dealer to the dashboard page after validation completed by clicking the link.

Dependency : DFR6

### 2.2.9.   Functional requirement 9

ID : DFR9

Description : The system shall able to display all active assets, which the dealer is selling, on the dashboard page.

Dependency : DFR8

### 2.2.10. Functional requirement 10

ID : DFR10

Description : The dealer should be able to cancel an order for any assets just only by clicking "cancel order" button.

Dependency : DFR7

### 2.2.11. Functional requirement 11

ID : DFR11

Description : The system shall send a notification email to the customer when their order canceled by the dealer.

Dependency : DFR7 and DFR10

### 2.2.12. Functional requirement 12

ID : DFR12

Description : The system shall allow only users  who validated their email address.

Dependency : DFR7

### 2.2.13. Functional requirement 13

ID : DFR13

Description : The system shall allow the dealers to add new assets onto their showcase and to delete old assets on the system.

Dependency : DFR7

### 2.2.14. Functional requirement 14

ID : DFR14

Description : The system shall prevent the dealers to remove the assets ordered by a customer.

Dependency : DFR7 and DFR13

### 2.2.15. Functional requirement 15

ID : DFR15

Description : The dealer should be able to change the price of any desired asset.

Dependency : DFR7

### 2.2.16. Functional requirement 16

ID : DFR16

Description : The system shall store all paid amount in a pool account before the dealer withdraw them.

Dependency : DFR7

### 2.2.17. Functional requirement 17

ID : DFR17

Description : The system shall wait for approval from the customer to reflect the amount of the asset sold onto the dealer account.

Dependency : DFR7

### 2.2.18. Functional requirement 18

ID : DFR18

Description : The system shall reflect the price of the assets sold onto the dealer account after 2 weeks later automatically unless they are approved by the customers.

Dependency : DFR7 and DFR17

## 2.3.    Non-functional Requirements

### 2.3.1.   Non-functional requirement 1

ID : NFR1

Description : The system shall be designed in a way to fulfill the further requirements supporting other platforms like mobile phones.

### 2.3.2.   Non-functional requirement 2

ID : NFR2

Description : The system should have unit tests for the back-end of its user interface and test coverage should be at least 65 – 70%

### 2.3.3.   Non-functional requirement 3

ID : NFR3

Description : The system shall be reliable for users. It shall need any personal information to operate.

### 2.3.4.   Non-functional requirement 4

ID : NFR4

Description : The system shall be scalable, resource-efficient and high-performer.

### 2.3.5.   Non-functional requirement 5

ID : NFR5

Description : The system shall be user-friendly, easy to use and self-explanatory.

### 2.3.6.   Non-functional requirement 6

ID : NFR6

Description : The system should be responsive to the platforms that are accessed through. It should support the modern web-browser engines and should be accessible and easily usable from the variety of devices like mobile phone, tablets, and PCs.

### 2.3.7.   Non-functional requirement 7

ID : NFR7

Description : The system should be able to run on the various devices.

### 2.3.8.   Non-functional requirement 8

ID : NFR8

Description : The system shall be runnable on the various operating systems such as Windows and Linux, in particular on the Linux-derivative operating systems.

### 2.3.9.   Non-functional requirement 9

ID : NFR9

Description : The system shall be fast enough and has a high performance. Switching between pages shall be less then 2 seconds.