Software Requirements Specification

Version 1.0

<<Annotated Version>>

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Development of the work system at the center of Horizon Line commercial

Sawsan Tarraf

Sara Khrebook

Ghfran Deeb

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<<Any comments inside double brackets such as these are *not* part of this SRS but are comments upon this SRS example to help the reader understand the point being made.

Refer to the SRS Template for details on the purpose and rules for each section of this document.

This work is based upon the submissions of the Winter 22/11/2018. The students who submitted these team projects were Sawsan Tarraf , Sara Khrebook, Ghfran Deeb . >>

# Table of Content

1. Introduction

1.1purpose

1.2scope of project

1.3glossary

1.4reference

1.5overview of documents

2.0verall description

2.1system environment

2.2functional requirements

2.2.1 customer use case

Use case : search device

2.2.2 reception use case

Use case : receive the customer's request

2.2.3seller use case

Use case: display the devices

2.2.4 accountant use case

Use case : give warranty and select the payment method

2.2.5 accountant use case

Use case :warning direction

2.3 user characteristics

2.4 non-functional requirements

3.0 requirements specification

3.1 External interface requirement

3.2functional requirement

3.2.1 search device

3.2.2 customer reception

3.2.3 display devices

3.2.4 give warranty and select the payment method

3.2.5 warning direction

3.3detailed non –functional requirement

3.3.1 logical structure of the data

3.3.2security

# 1.0. Introduction

## 1.1. Purpose

The purpose of this document is to provide a detailed description of the system to be developed and present the tasks that it must provide in order to meet all customer needs and achieve the greatest reliability and largest possible profit rate for the center.

## 1.2. Scope of Project:

This system will be a system developed for the work system in the center of the Horizon Line .

This system will be designed to facilitate the buying , selling and paying of computers and lab tops by providing tools to help in automating the services provided my the center.

Where the system meets customers requests and is easy to under stand and use.

Sales , purchase, payment and communication with customers are managed either within the centers or via e-mail.

## 1.3. Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
| The guarantee | is a contract of personal audiences that the center is given by the customer in the event of a vaccination of the device that I was subscribed |
| Warning: | It is one of the legal means to inform the customer of the payment of the required amount due to the lapse of the specified period to pay the amount |
| Accountant: | The person who delivers the device to the customer after paying for it |
| Receptionist: | The person who receives the requirements of the clients |
| Customer: | Any person who wants to buy a device or a laptop |
| Type of device | :depending on the manufacture |
| Software Requirements Specification | A document that completely describes all of the functions of a proposed system and the constraints under which it must operate. For example, this document. |
| Reader | Anyone visiting the site to read articles. |
| Review | A written recommendation about the appropriateness of an article for publication; may include suggestions for improvement. |
| Reviewer | A person that examines an article and has the ability to recommend approval of the article for publication or to request that changes be made in the article. |

## 1.4. References

Hans van vlit.software

Engineering: principles and practice(second edition) 1999

## 1.5. Overview of Document

. The next chapter, the Overall Description section, of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter.

The third chapter, Requirements Specification section, of this document is written primarily for the developers and describes in technical terms the details of the functionality of the product.

Both sections of the document describe the same software product in its entirety, but are intended for different audiences and thus use different language.

# 2.0. Overall Description

## 2.1 System Environment

Reception

employee

Customer

Accountant

HS DB

reception department

Sales section

Department of account

Saller

Figure 1 - System Environment

The Development of the work system at the center of Horizon Line commercial

has fife active actors and one cooperating system.

The customer goes to the reception department to determine the type of requests

He want and then goes to the employee in charge with the indication that all requests must be issued by reception department .

The responsible employee accomplishes employee his task and is directed to the accounting department after notification is sent to the accountant of the value must be paid.

## 2.2 Functional Requirements Specification

This section outlines the use cases for each of the customers separately. The reception employee ,the employee in sales department and the accountant.

### 2.2.1 Customer Use Case

#### Use case: Search Device

**Diagram:**

customer

Come to the reception department

**Brief Description**

The customer arrives at the Horizon Line center website on the internet and searchs for the device they wish to purchase .

**Initial Step-By-Step Description**

Before this use case can be initiated, the customer has already accessed the Online center Website.

1. The customer chooses to device by type , category, or characteristics he was .
2. The system displays the choices to the customer .
3. The customer selects.

#### XRef: Section 2.2.1, Search Device SDD, Section 7.1

### 2.2.2 Reception employee Use Case

Use case:  **Receive the customer’s request**

**Diagram:**

Reception employee

Receive the customer’s request

**Brief Description**

The reception employee receives the customer and knows his request .

**Initial Step-By-Step Description**

Before this use case can be initiated, the reception employee has already connected to the center’s website.

1. The reception employee receives the customer’s request.
2. Checking the presence of the order at the Center .
3. Directing the customer to the section of the request if it was exist , otherwise rejecting the request .

**XRef:** Section 2.2.2, Submit device ; Section 2.2.3, Submit device

SDD, Section 7.2

### 2.2.3 Seller Use Case

#### Use case: Display the devices

**Diagram:**

Seller

#### Display the devices

**Brief Description**

The seller display the available devices as per customer request .

**Initial Step-By-Step Description**

Before this use case can be initiated, the Seller r has already connected to center’s website.

1. Show available devices of the required type.
2. Determine the price of each device and its warranty and conditions.
3. If the customer wants to buy ,he will enter his personal information else leave the center.

**XRef:** Section 2.2.4, display device SDD, Section 7.3

### 2.2.4 Accountant Use Case

### Use Case: **Give warranty and Select the payment method Use Cases**

Give warranty

Accountant

Select the payment method

**Brief Description**

The Accountant give warrant for the device and select the method for pay its price .

**Initial Step-By-Step Description**

Before this use case can be initiated, the Accountant has already accessed the main page of the center website .

If the purchase was purchased:

1. The accountant determines the way to pay the price of devise (one payment or several payment ).
2. Accountant give customer a warranty that guarantees the quality of the device.

#### 2.2.5 Accountant Use Case

#### Use case: warning direction

**Diagram:**

Accountant

warning direction

Customer

**Brief Description**

The Accountant warning direction to the customer .

**Initial Step-By-Step Description:**

If the customer does not commit to paying the installments , an official warning will be sent to him and in case of repetition a complaint will be submitted to the concerned authorities

#### XRef:Sec 2.2.4 warning direction ; Sec 2.2.4 warning direction

SDD, Section 7.5

## 2.3 User Characteristics

The customer is expected to be aware of the Internet and be able to use the search engine.

It is expected that the customer knows the importance of the guarantee provided by the center and also that he knows the conditions of payment and commitment to it so that the warning is not sent to him.

## 2.4 Non-Functional Requirements:

1- The online center will be on a server with a high-speed Internet network or local internet network.

2. The system has been assigned to the use of the use of the use.

3. The speed of the reader connection on the devices used in ratio of the properties of this system.

4. Find access to this computer and a Windows operating system.

5. Record the high-level system by maintaining hardware data and customers.

6. Ease of use.3.0. Requirements Specification

3.0. Requirements Specification

## 3.1 External Interface Requirements

**Associated with several external systems:**

## 3.2 Functional Requirements

The Logical Structure of the Data is contained in Section 3.3.1.

### 3.2.1

|  |  |
| --- | --- |
| **Use Case Name** |  |
| **XRef** |  |
| **Trigger** |  |
| **Precondition** |  |
| **Basic Path** |  |
| **Alternative Paths** |  |
| **Postcondition** |  |
| **Exception Paths** |  |

#### 3.2.2

|  |  |
| --- | --- |
| **Use Case Name** |  |
| **XRef** |  |
| **Trigger** |  |
| **Precondition** |  |
| **Basic Path** |  |
| **Alternative Paths** |  |
| **Postcondition** |  |
| **Exception Paths** |  |
| **Other** |  |

**3.2.3**

|  |  |
| --- | --- |
| **Use Case Name** |  |
| **XRef** |  |
| **Trigger** |  |
| **Precondition** |  |
| **Basic Path** |  |
| **Alternative Paths** |  |
| **Postcondition** |  |
| **Exception Paths** |  |
| **Other** |  |

|  |  |
| --- | --- |
| **Use Case Name** |  |
| **XRef** |  |
| **Trigger** |  |
| **Precondition** |  |
| **Basic Path** |  |
| **Alternative Paths** |  |
| **Postcondition** |  |
| **Exception Paths** |  |
| **Other** |  |

#### 3.2.5

|  |  |
| --- | --- |
| **Use Case Name** |  |
| **XRef** |  |
| **Trigger** |  |
| **Precondition** |  |
| **Basic Path** |  |
| **Alternative Paths** |  |
| **Postcondition** |  |
| **Exception Paths** |  |
| **Other** |  |

## 3.3 Detailed Non-Functional Requirements

3.3.1

**Timetable:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Level** | **expected end date** | **Implementation start date** | **Embedded partial tasks** |
| System analysis |  |  |  |
|  |  |  |
|  |  |  |
| System design |  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Programmatic investigation |  |  |  |
|  |  |  |

### 3.3.2 Security

### The site must be safe and reliable high so that the customer's privacy is maintained and personal data .