
Software Requirements Specification

for

An e-commerce website project for selling DIY items – Surub & Piulita

Version 1.0

Prepared by Marin Alin-Andrei

ACE UCV

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Revision History

Name	Date	Reason For Changes	Version
Marin Alin	12.11.2022	Start-up Document	1.0

1. Introduction

1.1 Purpose

The purpose of this document is to present the software requirements specifications for an online DIY store (Surub & Piulita). This document will provide a general description of the product, the implementation and design constraints, the operating environments used to build the product, the system interfaces, as well as the functional and non-functional requirements.

1.2 Document Conventions

The following conventions have been used for this document:

- The titles were written in Arial font, font size 18, bold.
- Subtitles were written in Arial font, font size 14, bold.
- Chapter content was written using Arial font, font size 12.

The following conventions were used in the content:

- Chapter names were written in Arial font, font size 12, bold.
- The names of the subchapters were written in Arial font, font size 11.

1.3 Intended Audience and Reading Suggestions

This document is intended to be read by the following people:

- Developers, to have a better overview of the requirements they need to implement.
- Project testers, who can use this document as a basis for their testing strategy. If certain bugs appear in the implementation, they are easier to find and correct with the help of the document.
- Users, who want to discover what the application does.

The pages are numbered at the top, for a more accurate positioning of the reader within the document.

The document is divided into 6 chapters. The first chapter gives the reader a small introduction about the application and the document. The second chapter provides a general description of the product. Chapter three contains the requirements and description of the interfaces. The fourth chapter presents the system features, the fifth chapter presents the non-functional requirements of the application, and the sixth chapter will present other requirements, not mentioned in the other chapters.

1.4 Project Scope

The main purpose of this product is the development of an online store that allows customers to purchase various items from the field of DIY activities. This computer system will allow you to keep track of products, customers and the orders placed by them.

Using this application, a user can track the products that the company has presented, add products to the wish list or order the desired products.

1.5 References

- <http://www.cse.msu.edu/~cse870/IEEEExplore-SRS-template.pdf>
- <http://pmblog.accompa.com/2009/10/08/use-case-template-example-requirements-management-basics/>
- <https://relevant.software/blog/software-requirements-specification-srs-document/>
- <https://medium.com/@enisinanaj/writing-a-software-requirements-specification-document-97d622805aef>

2. Overall Description

2.1 Product Perspective

An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. An e-mail notification is sent to the customer as soon as the order is placed.

2.2 Product Features

The main functionalities of the product are as follows:

- Provides a registration method for customers.
- Provides a login / access method for customers.
- Provides a security system to protect accounts and customer information.
- Provides the user with the possibility of personal account management.
- Offers customers the opportunity to add the products they are interested in to the list of favorites

- Offers customers the opportunity to purchase the products they want in the quantity they want, within the limit of the available stock.
- The option to choose the convenient payment method for each customer.
- The option to activate in the application as an administrator. The administrator can make changes to the available products, add new products or delete existing products, manage registered users.

2.3 User Classes and Characteristics

The main classes of users of this system are represented by visitors, customers and administrator/administrators.

Visitors have the following rights:

- They can access the website.
- They can view the available products and the about us or contact pages.
- They can discover the store's policy.

Customers have the right to perform the following actions:

- Creating an account in the system.
- Exclusive access to the previously created user account.
- Management of the personal account (eg: changing the password, permanent deletion of the account).
- Viewing all the orders they have placed.
- View all available products.
- Adding products to the shopping cart and wish list.
- Opting for the agreed payment method and for the delivery method.

The administrator has the right to perform the following operations:

- Management of all information related to the products sold by the site.
- The possibility to add and modify products in the system.

2.4 Operating Environment

The operating environment for this web application consists of a web browser that requires a good internet connection and a stable connection to the server and database.

- Customer operating system requirements

Operating System	Versions
Microsoft Windows	Windows 7
	Windows 8
	Windows 10
	Windows 11

- Web browser requirements

Web environment	Compatible browsers
Web browser	Mozilla Firefox
	Google Chrome
	Microsoft Edge

- Compatible hardware platforms

- Wintel (Intel x86) or PC hardware compatible with Windows operating system.
- Personal computers equipped with processors with 64-bit (x64) architecture, regardless of manufacturer.

- Connecting with the database

The server can connect to the following databases:

- MySQL SERVER

2.5 Design and Implementation Constraints

To Be Completed

2.6 User Documentation

To Be Completed

2.7 Assumptions and Dependencies

In order to be used, the product needs a permanent and stable connection to the Internet, as well as to the database.

It is necessary that the operating environment corresponds to the standards previously exposed (see the "Operating environment" section).

3. System Features

3.1 User Registration

3.1.1 Description and Priority

To Be Completed

3.1.2 Stimulus/Response Sequences

To Be Completed

3.1.3 Functional Requirements

To Be Completed

3.2 User Authentication

3.2.1 Description and Priority

To Be Completed

3.2.2 Stimulus/Response Sequences

To Be Completed

3.2.3 Functional Requirements

To Be Completed

3.3 Changing User Information

3.3.1 Description and Priority

To Be Completed

3.3.2 Stimulus/Response Sequences

To Be Completed

3.3.3 Functional Requirements

To Be Completed

3.4 View Products

3.4.1 Description and Priority

To Be Completed

3.4.2 Stimulus/Response Sequences

To Be Completed

3.4.3 Functional Requirements

To Be Completed

3.5 Placing Orders

3.5.1 Description and Priority

To Be Completed

3.5.2 Stimulus/Response Sequences

To Be Completed

3.5.3 Functional Requirements

To Be Completed

4. External Interface Requirements

4.1 User Interfaces

To Be Completed

4.2 Hardware Interfaces

N/A

4.3 Software Interfaces

To Be Completed

4.4 Communications Interfaces

The communication standard used is HTTP. A stable network connection is required.

The user communicates with the database through an electronic form.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

To Be Completed

5.2 Safety Requirements

Not requested.

5.3 Security Requirements

To Be Completed

5.4 Software Quality Attributes

The product is intended to be used in a manner accessible to users, to be intuitive and reusable.

The system must be absolutely reliable as it involves banking transactions.

Rules regarding the quality of the delivered software:

- No errors of any kind are allowed at the level of the finished product.
- There will be comments only where their use is necessary.
- The source code must be structured and intuitive, easy to understand by all collaborators.
- Coding style will be consistent throughout the project and adhere to Google coding conventions. All developers will comply with this standard.
- There will be no deviations from the system design. These can only be realized by the decision of the project architect.
- The project will be developed using a version control system for temporal monitoring of its evolution.
- On the main development branch of the project there will be only completed components, complete functionalities and valid documents.
- The system will meet exactly the requirements for which it was designed and developed.
- The system will meet all the necessary conditions to be able to develop test strategies.
- The system will be able to identify and combat unauthorized actions that could lead to the degradation or corruption of the system.

6. Other Requirements

N/A