Software Requirement Specification (SRS)

for

Online Shopping "OLIVA"

https://oliva.in.ua/shop/

Version 1.0

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

This Software Requirements Specification (SRS) provides an overview of the entire "OLIVA" online store SRS with the purpose, scope, definitions, abbreviations, references, and an overview of the SRS. The aim of this document is to gather and analyze and give an in-depth insight into the company's "OLIVA" software system by defining the problem statement in detail. Nevertheless, it also concentrates on the services required by stakeholders and their needs while defining high-level product features. The detailed requirements of the company "OLIVA" are provided in this document.

1.1 Purpose

This document aims to outline the features of the "OLIVA" online (product) store to serve as a guide for developers, on the one hand, and a document for testing software for potential customers, on the other. This online store is designed to provide stable sales revenue, satisfy the market of goods through the Internet, provide a market for new brands and increase customer satisfaction,selling affordable hunting and fishing suits, active recreation and military clothing at a good price and quality. Therefore, this SRS document is a detailed overview of the software product, its parameters, and its goals.

1.2 Scope

The OLIVA online store is designed to serve and satisfy the needs of customers who are going to visit and purchase fishing, hunting, hiking clothing and military uniforms online, rather than visiting the store physically. The store has a large selection of models of all sizes. The company offers cooperation for wholesale buyers.

1.3. Business goals

1.3.1 Increase the number of customers in the company's physical warehouse office market;

1.3.2 Increase the number of customers in the company's online shopping store; B2C;

1.3.3 Increase the number of business customers. B2B - Business to business;

1.3.4 Placement of the information about all products, as well as promotional products, novelties and seasonal products. Production of unique clothes according to the needs and sizes of customers;

1.3.5 Constant offer of updating clothes for hunting, fishing and tourism on the market of Ukraine;

1.3.6 Organization of product delivery to the client and placement of information related to the return of products;

1.3.7 Communication with the company sales department through social networks. Placement of all links to the company's social networks, phone numbers and contacts and the physical address of the company's warehouse office;

1.3.8 Provide customers with a convenient platform to search and purchase.

1.4 Definitions

1.4.1 Terms

Service, System – The term used for the online shop "OLIVA";

User – The term used for OLIVA customers and random site users.

1.4.2 Abbreviations

HDR - used to describe all requirements for header.

FFR - used to describe functional requirements for the footer.

PA - used to describe functional requirements for the personal account "Особистий кабінет"

SUM - used to describe requirements for the Sign Up form "РЕЄСТРАЦІЯ".

LIM - used to describe requirements for the Log In form "УВІЙТИ".

UP - used to describe requirements for the User profile page "Профіль"

SHP - used to describe requirements for the shop page "Товари"

SRCH - used to describe requirements for the search form "Пошук"

CTG - used to describe requirements for the product categories menu "Категорії товарів"

FLT - used to describe requirements for the filters "Ціна", "Сезон", "Розмір"

SRT - used to describe requirements for the sorting functions "Сортування за.."

FDB - used to describe requirements for the feedback form.

CRT - used to describe requirements for the shopping cart "Кошик"

ORD - used to describe requirements for the order page "Оформлення замовлення"

MN - used to describe requirements for the main page "Головна"

REQ - used to describe requirements for the password recovery form.

SRS - Software Requirements Specification.

UI - user interface.

1.5 Intended Audience

The target audience of the "OLIVA" online store is:

- military persons;
- people engaged in hunting, fishing;
- people who love active recreation;
- people who like to wear military style suits in everyday life, mixing and playing with style.

The store offers cooperation for wholesale buyers.

1.6 References

Service's website: https://oliva.in.ua/shop/

Service's Instagram profile: https://www.instagram.com/oliva.in.ua/

Service's Facebook profile: https://www.facebook.com/oliva.in.ua

2. Overall Description

2.1 Product Perspective

"OLIVA" is an online store, the main assortment in the catalog of which is, of course, military-style clothing (the entire assortment is produced at the own factory located in Ukraine). The company offers cooperation for wholesale buyers. There is a very large selection of models of all sizes, which allows users to choose clothes for fishing, hunting, tourist clothes and military uniforms in the store.

In addition, the user can buy such goods:

- Clothes for security and special services staff.
- Winter suits, jackets and fur coats.
- Ski suits and water-repellent suits.
- Military uniform.
- Fleece sweaters.
- Uniform.

2.2 Product Functions

The main function of this site is:

- provide the user with the opportunity to view products in the catalog;
- search for products;
- to give the user the opportunity to determine his size and choose the appropriate clothes;
- view their description and characteristics;

- add your favorite to the cart;
- pay for the product and be able to order delivery;
- give a user the opportunity to return and exchange the product;
- send feedback or questions;
- to provide a user with the opportunity to contact via email, mobile phone, social networks;
- cooperate on the "Dropshipping" system;
- provide a user with the ability to create a personal account profile to view recent orders, manage shipping and billing addresses, and edit password and account information.

2.3 User Types

This site provides four types of users:

Guest – not a logged-in user who comes for the first time to the site and gets acquainted with the site and its functionality. Guests can register on the site, choose the product in the basket, place an order, pay for the product, order delivery, and leave feedback by specifying their email address and name .

Registered user – a registered user, on whom the product is primarily focused, is looking for a product. He can choose the product and add it to the basket, place an order, pay for the product, order delivery, and leave feedback.

Manager – is a specialist who creates publications, writes texts, selects media files, updates, and analyzes content.

Administrator – registered user with the highest level of access to the administrative panel of the site. Responsible for the direct operation of the service.
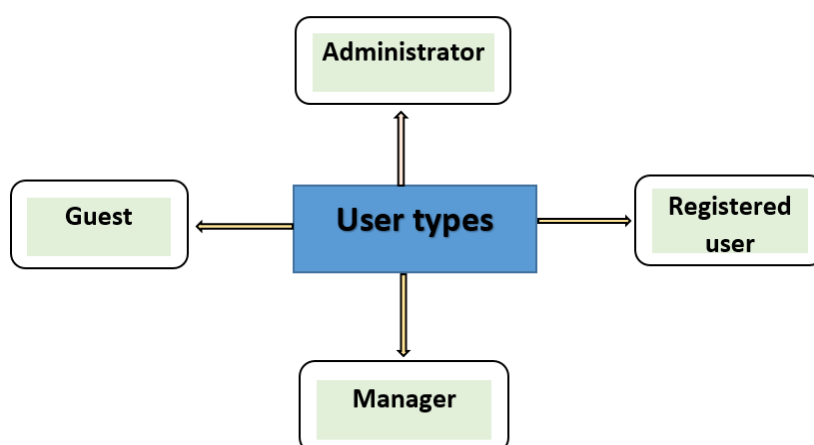
2.4 Operating Environment

The preferable browsers and operating systems for the "OLIVA" online store are Google Chrome for Windows and macOS.

2.5 Design and implementation conditions

The entire structure and code of the site must be written according to world standards such as W3C, ISO, and Ecma.

2.6 User documentation

There is currently no information about the user's documentation.

2.7 Assumptions and dependencies

2.7.1. The service must run 24 hours a day, 7 days a week.

2.7.2. The system operation depends on the role of the user.

2.7.3. Operation depends on the availability of the product.

2.7.4. The payment transaction is an external function. The delivery and quality of the service depends on the third-party payment operator.

2.7.5. The system will be tested on the latest versions of Google Chrome browser at the time of development. Serious changes made by browser developers may affect the stability of the system.

3.   External Interface Requirements

3.1. User Interfaces

The user interface for the software shall be compatible with browser Google Chrome by which the user can access the system. The user interface shall be implemented using any tool or software package like Java Applet, MS Front Page, EJB, etc.

The system's UI should provide the user with the ability to search goods by name or category, also to filter goods by price, season and size. Each goods should be provided by a digital image. The user must be able to select goods by adding it to the shopping cart. The system should provide the user with the ability to make an order for goods from the shopping card and pay for it. The user must be able to sign in, log in and log out of the system.

3.2 Hardware Interfaces

The System must run over the internet, all the hardware shall require to connect to the internet will be a hardware interface for the system. For e.g. Modem, WAN – LAN, Ethernet Cross-Cable.

3.3 Software interfaces

3.3.1. Operating System: Windows, MacOS which supports networking.

3.3.2. The system must interact with the sales system to manage orders.

3.3.3. The system must interact with the delivery system to track delivery orders.

3.4 Communication Interfaces

The two parties should be connected by LAN or WAN for communication purposes.

4. Features

4.1 User registration and login

4.1.1 Description and priority

The user has the opportunity to register as a new user, log in to his personal account, change his personal information or log out from the system.
Priority: High

4.1.2. Functional requirements for Sign Up and Login functions

SUM-4.1.2.1. The system should allow users to make a registration in the platform by entering their email, login and password twice.
SUM-4.1.2.2. The password must have at least 12 characters and can contain upper and lower case, numbers, and special characters.
SUM-4.1.2.3. The login can contain upper and lower Latin letters and numbers.
SUM-4.1.2.4. The email must contain: lower and upper Latin letters, numbers, symbols, symbol "@", domain prefix ".com", ".net", ".gmail".
LIM-4.1.2.5. The system must allow users to log into their account by entering their email or login and password.

LIM-4.1.2.6. The password must have at least 12 characters and can contain upper and lower case, numbers, and special characters.

LIM-4.1.2.7. The login and password fields are mandatory.

LIM-4.1.2.8. The system should allows the user to switch between input fields using Tab.

LIM-4.1.2.9. The system should allow logged-in users to save the user's name and password.

LIM-4.1.2.10. The system should not allow non registered users to enter the personal account.

LIM-4.1.2.11. The system should allow logged-in users to leave the personal account.

LIM-4.1.2.12. The system should allow the user, in case of user's account page.lost password, to reset the password using the "Втратили свій пароль?" option via email.

LIM-4.1.2.13. The user should not be logged in after clicking the "Back" button after log out of the system.

LIM-4.1.2.14. When the user click on the link "Втратили свій пароль?", the system redirects to a new page with a password recovery form via the email (with a personal letter confirming the action taken and a link to create a new password) and a further redirect to a new window to log in with the changed password.

PA-4.1.2.15. The system must allow the user to check all information about the order (number of the order, creation date, status, price, and content of the order) on the "ЗАМОВЛЕННЯ" section on the user's account page.

PA-4.1.2.16. The system must allow the user to change the default address on the "АДРЕСИ" section on the user's account page by clicking the "Редагувати" button.

PA-4.1.2.17. The system should allow the user to change the password in the "ПРОФІЛЬ" section of the user's personal cabinet. "Зберегти зміни" confirmation button should be enabled by default after user fills all necessary password fields.

PA-4.1.2.18. The system must allow the user to logout from the site by clicking the "ВИЙТИ" button on the user's account page.

SUM-4.1.2.19. The system must not allow the user to make a second registration using the same email. The error message must be shown "Помилка: Обліковий запис вже зареєстровано на вашу електронну адресу. Будь ласка, увійдіть."

SUM-4.1.2.20. The system must not allow the user to make the registration using the login registered in the system. The error message must be shown "Помилка: Обліковий запис з цим логіном вже зареєстрований. Будь ласка, виберіть інший."

4.2. Products

4.2.1. Description and priority

User should be able to see products list by clicking on the "Товари" tab. User should be able to see Product's Categories Menu "Категорії товарів" on each website page, search for the product items, use product filters by season, price and size. User should be able to sort products:

a) By default
b) By popularity
c) By rate
d) By last added
e) By price: from the highest to the lowest
f) By price: from the lowest to the highest

User should be able to add goods to the cart by clicking on the button "Купити"

Priority: High

4.2.2. Functional requirements

SHP-4.2.2.1. The system should display products menu when user clicks on "Товари" tab.

SHP-4.2.2.2. The system should provide pagination with product's pages.

SHP-4.2.2.3. The system should provide the title, price and short description of each product's item.

SHP-4.2.2.4. The system should provide user with the opportunity to see detailed descriptions of each chosen by user product item by clicking on the product image.

SHP-4.2.2.5. The system should provide user with the opportunity to see characteristics of each chosen by user product item.

SHP-4.2.2.6. The system should provide user the information about "Доставка і оплата"

SHP-4.2.2.7. The system should provide user the information about "Повернення і обмін"

SHP-4.2.2.8. The system should give user the opportunity to leave feedback about the product.

SHP-4.2.2.9. The system should provide the user the possibility to enter his height and weight on the product detailed description page to choose the right product's size.

SHP-4.2.2.10. Entering the height, the system should accept the values that are less or equal 189, and greater or equal 150.

SHP-4.2.2.11. Entering the weight, the system should accept the values that are less or equal 134, and greater or equal 38.

SHP-4.2.2.12. The system should provide the opportunity to change the quantity of products to be added to the cart.

SHP-4.2.2.13. The system should propose to the user the choice of ready-made cloth sizes from which to choose.

SHP-4.2.2.14. The system should display the information of the product status (available or not available).

SHP-4.2.2.15. The system should provide user with similar products module "СХОЖІ ТОВАРИ", on each product's detailed description page.

SHP-4.2.2.16. The system should provide user opportunity to see the wholesale product prices by clicking on the "Показати оптові ціни" drop-down button.

SHP-4.2.2.17. The system should provide user the opportunity to buy products in one click by clicking on the "Купити в один клік" button on the detailed product page and open pop-up form for filling the necessary fields.

SHP-4.2.2.18. The system should provide user the opportunity to add products to the cart by clicking on the "Купити" button after choosing the size and quantity of the chosen product on the detailed product page.

SRCH-4.2.2.19. The system should provide user the opportunity to search for the product by typing its title in the Search field.

SRCH-4.2.2.20. The system should provide user the opportunity to search for the product by typing its code.

CTG-4.2.2.21. The system should display products categories Menu "Категорії товарів" on each website page.

FLT-4.2.2.22. Each product category page should contain price Filter "Ціна"

FLT-4.2.2.23. Each product category page should contain season Filter "Сезон" which makes filtering by season of the year.

FLT-4.2.2.24. Each product category page should contain size Filter "Розмір"

SRT-4.2.2.25. Each product category page should contain products Sorting By Default feature "Сортування за замовчуванням"

SRT-4.2.2.26. Each product category page should contain products Sorting By Popularity feature "Сортувати за популярністю"

SRT-4.2.2.27. Each product category page should contain products Sorting By Rate feature "Сортувати за оцінкою"

SRT-4.2.2.28. Each product category page should contain products Sorting By Last Added feature "Сортування за останніми"

SRT-4.2.2.29. Each product category page should contain products Sorting By Price From the Highest to the Lowest feature "Сортування за ціною: від вищої до нижчої"

SRT-4.2.2.30. Each product category page should contain products Sorting By Price From the Lowest to the Highest feature "Сортування за ціною: від нижчої до вищої "

FDB-4.2.2.31. The feedback form should contain the field where the user can type feedback text. It is mandatory to write the text in it.

FDB-4.2.2.32. The feedback form should contain 5 stars checkmarks to rate the product item. It is mandatory to mark the stars.

FDB-4.2.2.33. The feedback form should contain a "Назва" text field. It is mandatory to fill the name field.

FDB-4.2.2.34. The feedback form should contain an email field. It is mandatory to fill it.

FDB-4.2.2.35. The feedback form should contain a checkbox to save the user's data (email, name and website address in the browser) for the possible future feedbacks.

FDB-4.2.2.36. The checkbox has to be disabled by default.

FDB-4.2.2.37. The feedback form should have a "Відправити" button to publish feedback after the user writes a feedback.

FDB-4.2.2.38. The feedback form should contain a "Feedback status" field.

FDB-4.2.2.39. The "Feedback status" field should contain a user's feedback preview and text notifying about current feedback status.

FDB-4.2.2.40. The email must contain: lower and upper Latin letters, numbers, special characters, symbol "@", domain ".com", ".net", "gmail.com".

FDB-4.2.2.41. The feedback text field should be not limited with the quantity of symbols.

FDB-4.2.2.42. The feedback "Назва" field should contain not more than 200 symbols.

4.3. Cart and order form

4.3.1.Description and priority

The user has the opportunity to add the chosen product to the cart and form the order.

Priority: High

4.3.2. Functional requirements.

CTR-4.3.2.1. The system must provide access to the cart if the product is added.

CTR-4.3.2.2. Clicking the link button "Кошик"with added product before, the system should provide the user an opportunity to go to the new page "Оформлення замовлення".

CTR-4.3.2.3. The system must allow the user to remove chosen products from the cart.

CTR-4.3.2.4. The system should provide the user an opportunity to update the cart, clicking the "Оновити кошик" button.

ORD-4.3.2.5. The system should display such information of the added product to the cart as: "Товар", "Ціна", "Кількість", "Проміжний підсумок" on the page " Оформлення замовлення".

CTR-4.3.2.6. The system should allow the user an opportunity to click the name of the chosen product in the cart and go to the product page.

ORD-4.3.2.7. On the "Оформлення замовлення" page the system should provide the user an opportunity to fill the empty input fields of the "Оплата та доставка" form with such such personal information as:

a) name "Ім'я";
b) last name "Прізвище";
c) phone number "Телефон";
d) email "Адреса електронної пошти" .

ORD-4.3.2.8. Mandatory input fields on the "Оформлення замовлення" page must be marked with an asterisk.

ORD-4.3.2.9. The system must allow the user to enter upper and lower Latin/Cyrillic letters, numbers and special characters in the input field "Ім'я".

ORD-4.3.2.10. The system must allow the user to enter upper and lower Latin/Cyrillic letters, numbers and special characters in the input field "Прізвище" .

ORD-4.3.2.11. The input field "Адреса електронної пошти" is not mandatory and the system must allow the user to enter lower and upper Latin letters, numbers, symbol "@", domain prefix ".com", ".net", "gmail".

ORD-4.3.2.12. The system should display the input mask of phone number, clicking on the input field "Телефон".

ORD-4.3.2.13. The system should allow the user an opportunity to choose the region, city and the branch of the post from the dropdown menu of the delivery address on the "Оформлення замовлення" page.

ORD-4.3.2.14. The user should have an opportunity to leave the information about the home delivery address.

ORD-4.3.2.15. The user should have the opportunity to leave the order's notes.

ORD-4.3.2.16. The system should provide the user an opportunity to pay for the goods with the help of:

a) cash on delivery with minimal prepayment;
b) on the Private bank card;
c) payment by Private bank details.

ORD-4.3.2.17. The system should provide the user an opportunity to confirm that he is not a robot, ticking opposite the inscription "Я не робот".

ORD- 4.3.2.18. The system should display images the user chooses, clicking the proper variant, confirming he is not a robot.

ORD-4.3.2.19. The system must allow the user to confirm order by clicking on the "Підтвердити замовлення" button.

ORD-4.3.2.20 The system must send the order confirmation on the user's email automatically when clicking the "Підтвердити замовлення" button.

ORD-4.3.2.21. Clicking the "Підтвердити замовлення" button, the system should go to the other page "Замовлення отримано" and display the notification "Дякуємо ваше замовлення отримано! Наш менеджер зв'яжеться з вами у робочий час!", and all the information about order ("Номер замовлення", "Дата", "Всього", "Спосіб оплати".

ORD-4.3.2.22. The system should have an opportunity to go back the main page, clicking the " Повернутись в магазин" button.

CRT-4.3.2.23. The system should delete all the product chosen information from the cart after order confirmation.

4.4. Main Page

4.4.1.Description and priority

Users should be able to view on the main page of the site: product advertising carousel, top selling products, new products, and store information.

Priority: High

4.4.2 Functional requirements:

MN-4.4.2.1. The system should display the carousel with product advertising information.

MN-4.4.2.2. The system should allow the user an opportunity to scroll the product advertising information.

MN-4.4.2.3. The system should display the carousel with top selling products information "Топ продаж".

MN-4.4.2.4. "Топ продаж" should contain such information of each top selling product as: image, name, code, size and price.

MN-4.4.2.5. The system should allow the user an opportunity to scroll the top selling products to the right and left on the "Топ продаж" carousel.

MN-4.4.2.6. The system must allow the user to go to the product page, clicking the "Купити" button, with the opportunity to view the detailed information about the product.

MN-4.4.2.7. The system should provide the user an opportunity to click on the product name and go to the product page.

MN-4.4.2.8. The system should provide the user an opportunity to reproduce the change in the image of the product, when hovering over it.

MN-4.4.2.9. The system should display the products' novelties information "Новинки".

MN-4.4.2.10. "Новинки" should contain only the image and the name of the new product.

MN-4.4.3.11. The system should provide the user an opportunity to read the information about the company "Про магазин".

4.5. Header

HDR-4.5.1. The system should provide users a possibility to access the header from every web page.

HDR-4.5.2. Users should be able to navigate through website pages by using header menus.

HDR-4.5.3. The system should display on header the contact phone numbers of the store, work schedule and social networks links.

HDR-4.5.4. The system should be switching to the main page by clicking on the header logo-button.

HDR-4.5.5. Users should be able to search through the website by using form "Пошук".

4.6. Footer

FFR-4.6.1. The system should provide users a possibility to access the footer from every web page.

FFR-4.6.2. The system should display on footer the contact phone numbers of the store, e-mail address, post address, current website link, work schedule and social networks links.

FFR-4.6.3. The system should be switching to the main page by clicking on the footer logo-button.

4.7. "Про нас" page

This page should provide users with information about on-line store Oliva.

4.8. "Контакти" page

This page should provide users with contact information about on-line store Oliva, such as the contact phone numbers of the store, e-mail address, post address, current website link, work schedule and location on the map.

4.9. "Оптова торгівля" page

This page should provide users with information about the terms of cooperation for wholesale buyers.

4.10. "Дропшипінг" page

This page should provide users with information about the terms of cooperation for partner online stores.

4.11. "Обмін та повернення" page

This page should provide users with information about the conditions of exchange and return of goods.

4.12. "Новинки" page

This page should provide users with information about new goods.

4.13. "Акції" page

This page should provide users with information about promotional goods.

4.14. "Розмірні сітки" page

This page should provide users with information about goods sizes.

5. Nonfunctional Requirements

5.1 Performance requirements

This subsection specifies both the static and the dynamic numerical requirements placed on the software or on human interaction with the software

5.1.1. 90% of group operations should be processed within no more than 3 seconds

5.1.2. The product shall be web-based and has to be run from a web server.

5.1.3. The loading of the site also depends on the end-user Internet connection

5.1.4. The software must support 50 customers at the same time

5.1.5. Stress testing: System should save registered user sensitive information and keep data when an overtime load (when more than 100 users are making some operations on the site at the same time) on the server.

5.2 Security requirements

5.2.1. The system should be able to protect the privacy of user data.

5.2.2 Workspace of the user should only be accessed through the user's own credentials and any other user should not be able to access the user's private data.

5.2.3 User should only access his own workspace. Also, the rights of the user should be restricted so that user can not harm to system by the programs they run or by the commands they run on

5.2.4 Since all the data will be transferred on the web, the system should also use encryption and decryption mechanism, in which only the intended user can decode the data and work on the data.

5.2.5. The user must log in to the system to perform transactions

5.2.6 The system should allow only site administrators to make changes to the site

5.2.7 The system should allow you to view only your own information, not the information of other users

5.2.8 The system must use the HTTPS web protocol to securely connect to the server.

5.2.8.1 The system must use the HTTPS Links

5.2.9 The user must enter the correct login and password to log in

5.2.10 The system should not leave any cookies on the customer's computer containing the user's password.

5.2.11 The system must automatically log out all customers after a period of inactivity.