Vision and Scope Document

for

Web-store “Palisadnik”

Version 1.0 approved

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Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
|  |  |  |  |
|  |  |  |  |

# Business Requirements

## Background

Online stores have become very popular over the past decade, as shopping in them is much easier, more convenient and faster than in offline stores.

The “Palisadnik” web-store is based on the sale of indoor and garden plants. “Palisadnik” makes it possible to carry out cashless payments and contactless delivery.

In addition to delivery, the product can be picked up at the points of issue, which will be located in each regional and large city.

## Business Opportunity

The online store allows you to achieve the following goals:

1. Saving money on renting retail outlets and paying salaries to employees.

2. Providing a larger assortment than offline stores.

3. The ability to sell goods regardless of the time of day, weather conditions, distance and other conditions.

4. Automated process of selling goods to users.

5. Ability to analyze the needs of users.

## Business Objectives and Success Criteria

The most important business objectives are:

|  |  |
| --- | --- |
| BO-1 | Within 2 years after the release of the web-store, the amount of revenue should exceed the development costs |
| BO-2 | Increase count of clients to 30% for year |
| BO-3 | After achieving payback, increase profits by 30% per year |
|  | Engage SMM for more effective advertising no later than a year after the start of making a profit |

Success criteria:

|  |  |
| --- | --- |
| SC-1 | In 2 years, the number of buyers who bought goods in the web-store should reach 1 million people or more |
| SC-2 | Successful use of SMM in social media networks and on the web-store what will give increase count of clients each month to 1% |

## Customer or Market Needs

A web-store saves time and money for customers, because they do not need to spend money on travel to the store, look for their time to visit the store, there is no moral pressure from a team of consultants. It is much easier to search for goods in the “Polisadnik” web-store than in an offline store. Less risk of contracting something through contact with other people.

Due to the deprivation of paying rent and salaries to a large number of staff, the goods themselves are more cost-effective, which is also a plus for the user.

## Business Risks

The main business risk is competition, because online stores with a similar range of goods already exist in our country. Therefore, you need to focus on SMM, quality service delivery, good discounts, fast delivery and features that competitor stores do not have. Also, the site will be made as convenient and easy to use as possible, so that users of different generations can use it without problems. So that users are not afraid to order goods due to the lack of tactile contact, it will be possible to return the goods without charging any payment, the same opportunity will be provided for a defective product.

# Vision of the Solution

## Vision Statement

*The new website is an online store site that will allow you to make purchases online, pay for them in any convenient way (online card, offline card or cash), and also allow you to choose the most convenient condition for delivering goods to your home or self-pickup from available pickup points. This web-store will be very convenient for users, will have a number of advantages over competitors and other offline stores in this specialization.*

## Major Features

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Feature** | **Priority** | **Description** |
| MF-01 | Restricted access | Must have | Only registered users should have access to the full functionality of the site. |
| MF-02 | Menu | Must have | The store's main page should contain a navigation bar |
| MF-03 | Make an order | Must have | Users must be able to make an order. |
| MF-04 | Add to shopping bucket | Must have | Allow the ability to gather multiple order units on one place and accumulate an all order. |
| MF-05 | Payment by card | Must have | Users should be able to pay for the purchase (payment by bank card on the website, non-cash payment / cash to the courier or consultant) |
| MF-06 | Product catalog | Must have | Users can view catalog to make their choice. |
| MF-07 | Product Search | Should have | Users should be able to search for products on the site by entering a keyword |
| MF-08 | Product Information | Must have | Each product must have a name, price, description, including photos of the goods; pot diameter, the time of the nearest delivery, category, height. |
| MF-09 | Similar products | Should have | Offer users similar products based on previously viewed |
| MF-10 | Popular products | Should have | The popular products should be formed, which includes the most frequently ordered products for the week/month. |
| MF-11 | Favorites products | Should have | Users should be able to add products to favorites for future purchases, as well as view favorites and, if necessary, delete products from there |
| MF-12 | Customer feedback on products | Should have | Users should be able to leave comments on every product they have bought in the past. |
| MF-13 | Filtering products | Should have | Ability to set filtering parameters when searching and viewing products |
| MF-15 | Choose location | Should have | Users must be able to choose a place to pick up their order. |
| MF-16 | Bonus system | Could have | Create a system of bonuses for regular customers. The client receives a certain amount of bonuses for a certain amount of goods purchased/money spent. |
| MF-17 | Chat support | Could have | Users should be able to write to the consultant on any questions about the product, delivery, payment method, etc. |

## Assumptions and Dependencies

The main dependencies: dependence on the software and hardware complex of the electronic payment system, with which payments are processed; dependence on the hosting platform; dependence on the Internet.

## Rest endpoints

## 2.4.1 Authorization controller

1. Authorization (input data – login and password, returns jwt token type, jwt access and jwt refresh)
2. Refresh (input data – authorized user, refresh token, returns jwt token type, jwt access and jwt refresh)

## 2.4.2 Product controller

1. Add (input data – product, returns product)
2. Delete by id по id (input data – id, returns void)
3. Update by id (input data – id, product, returns product)
4. Get by id (input data – id, returns product)
5. Get everyone by id (returns products)

## 2.4.3 User controller

1. Registration (input data – email, login, password, returns jwt token type, jwt access and jwt refresh)

## 2.4.4 Bucket controller

1. Add (input data – backet, returns backet)
2. Delete by id по id (input data – id, returns void)
3. Update by id (input data – id, backet, returns backet)
4. Get by id (input data – id, returns backet)
5. Get everyone by id (returns backets)
6. Add product to bucket (input data – id bucket, product, returns bucket)

## Entities

***Application entities are:***

1. *Authorization: ID\_user, Login (email), Password;*
2. *Flower: ID\_flower, Category, Description, Height, Diametr\_gorshka, Price, Picture;*
3. *Basket: ID\_basket, ID\_flower, ID\_user, Delivery, Payment, Date\_delivery;*
4. *User: ID\_user, Name, Surname, Number, Picture, ID\_basket.*

## Technology stack

***Frontend: vue.js***

***Backend: spring framework, spring boot, spring hibernate, spring security, spring validation, postgressql, redis.***

# Release

*Initial release should include must have features, listed above.*

## Scope of Subsequent Releases

*Release 2 must include items that are Should haves.*

## Limitations and Exclusions

The citizens of the Belarus can use the website.

# Business Context

## Stakeholder Profiles

|  |  |  |
| --- | --- | --- |
| **Stakeholder** | **Major Value** | **Major Interests** |
| Users | Saving money, time, convenient payment and delivery methods. | Convenient search and selection of goods in the catalog, simple ordering, choice of delivery and its speed, low cost of goods. |
| Customer | Profit increase. | The site must be developed on time, within budget, so that all the features that it requested are implemented. |
| Project Team | Increasing the company's income; execution of customer orders | Collection of information from the customer and other sources, qualitative analysis and documentation of requirements, execution and testing of these implemented requirements, support, development within the agreed time frame |
| Bank | Getting a percentage of transactions. | Order payment online. |
| Delivery Department | Improving the reputation of an online store in the field of delivery | They are interested in delivering the order safely and at the specified time |

## Context Diagram

