



Surfing / kiting spot

Software Requirements Specification

Version<1.0>

1. Introduction

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS. The main sections are purpose, scope, definitions, acronyms, abbreviations, references, and overview of the SRS. The aim of this document is to gather and analyze and give an in-depth insight of the complete **Surfing / Kiting spot software system** by defining the problem statement in detail. Nevertheless, it also concentrates on the capabilities required by stakeholders and their needs while defining high-level product features. The detailed requirements of **Surfing / Kiting spot application** are provided in this document.

1.1. Purpose

The purpose of the document is to collect and analyze all assorted ideas that have come up to define the system, its requirements with respect to consumers. Also, we shall predict and sort out how we hope this product will be used to gain a better understanding of the project, outline concepts that may be developed later, and document ideas that are being considered, but may be discarded as the product develops.

In short, the purpose of this SRS document is to provide a detailed overview of our software product, its parameters, and goals. This document describes the project's target audience and its user interface, hardware, and software requirements. It defines how our client, team and audience see the product and its functionality. Nonetheless, it helps any designer and developer to assist in software delivery lifecycle (SDLC) processes.

The main purpose of **Surfing / Kiting spot software system** is to help managers and place owners to help them to manage their businesses from one source. It means that businesses, which are going to use product has a chance to manage everything – from products to services, from connections to orders, from reports to tax in one website.

1.2. Scope

Primarily, the scope of application is cloud based management system for Surfing / Kiting spots. All managers who have subscription can login and manage their businesses from one spot, integrate their business and data to this application, create tickets if any error occurs during using the application and get 7/24 instant replies from the support team.

1.3. Definitions, acronyms, and abbreviations

| | |
|------------|---|
| Surfing | Riding (gliding) on a specially adapted board, lifted by the front of the sea wave. |
| Cloud app | Cloud applications are software that users access primarily through the internet, meaning at least some of it is managed by a server and not users' local machines. |
| ERP system | Enterprise resource planning (ERP) refers to a type of software that organizations use to manage day-to-day business activities such as accounting, procurement, project management, risk management and compliance, and supply chain operations. |
| Module | Module is collection of functions of UI which work for the same purpose. |
| Users | Users is a module which help managers to access to tenants from different accounts. |
| Relations | Relations is a module which help tenants to manage their contact and partners, and store information about them. |
| Stocks | Stocks is a module which help tenants to manage their products, services and keep them up to date anytime. |
| Orders | Orders is a module which help tenant to list orders of products and services. |
| Tracking | Allow users to get list of physical equipments like surfboards, kids, etc. |

1.4. References

- What are cloud applications
 - o <https://www.redhat.com/en/topics/cloud-native-apps/what-are-cloud-applications>
- How to implement management systems
 - o <https://www.sentrion.com/2020/07/20/8-steps-to-take-for-a-successful-erp-implementation/>
- How to write a software requirements specification (SRS Document)
 - o <https://www.perforce.com/blog/alm/how-write-software-requirements-specification-srs-document>
- Software Engineering | Classification of Software Requirements
 - o <https://www.geeksforgeeks.org/software-engineering-classification-of-software-requirements/>

1.5. Overview

The remaining sections of this document provide a general description, including characteristics of the users of this project, the product's hardware, and the functional and data requirements of the product. General description of the project is discussed in section 2 of this document. Section 3 gives the functional requirements, data requirements and constraints and assumptions made while designing the **Surfing / Kiting spot**.

2. Overall

This document contains the problem statement that the current system is facing which is hampering the growth opportunities of the company. It further lists and briefly describes the major features and a brief description of each of the proposed system.

2.2 Product functions

This product point to help people to manage their **Surfing / Kiting spots** better. The base logic of this application is and ERP system, where is a process used by companies to manage and integrate the important parts of their businesses. It is important to companies because they help them implement resource planning by integrating all the processes needed to run their companies with a single system. An ERP software system can also integrate planning, purchasing inventory, sales, marketing, finance, human resources, and more. In **Surfing / Kiting spots**, it is more important because places need an application to manage, control and track their physical equipment's.

2.2.1 Authentication and Authorization

2.2.1.1 The system shall allow registration of new users and tenants.

2.2.1.2 The system shall allow login of exists users.

2.2.1.3 The system shall allow restoring the password if user forget his password.

2.2.1.4 The system should allow users to restore their password with multiple ways (email, phone number, authentication applications, etc.)

2.2.1.4 The system shall send a notification email to the user and main tenant email about possible suspicions login, etc.

2.2.1.5 The system shall be able to show recent users who logged in the tenant account.

2.2.1.6 The system shall be able to log all logins, password restoring and sessions.

2.2.1.7 The system shall let the main user to see all these logs.

2.2.1.8 The system shall let users to remove their tenant and data when they want.

2.2.2 User module

2.2.2.1 The system shall display all the users who are assigned to the same tenant.

2.2.2.2 The system shall allow users to update their user details – full name, company name, age, position, etc.

2.2.2.3 The system shall allow admins to manage other users.

2.2.2.4 The system shall allow admins to add new users.

2.2.2.5 The system shall allow admins to edit exists users.

2.2.2.6 The system shall allow admins to remove exists users from the list of tenant participants.

2.2.2.7 The system shall not allow users who don't have admin privileges to change any user's details.

2.2.2.8 They system shall let users who have admin privileges to manage other users' privileges too.

2.2.2.9 The system shall let admins to update permissions of other users.

2.2.2.10 The system shall be able to send email to new users to add them as user to tenant.

2.2.2.11 The system shall let admins to send these emails 2 times in a day.

2.2.2.12 The system should be able to show admins the status of other users – pending, active, deactivated, etc.

2.2.2.13 The system should be able to let users to have multiple tenants.

2.2.2.14 The system should let users to be able to switch between different tenants and manage their companies.

2.2.2.15 The system shall block to create multiple users with the same email address.

2.2.3 Relations module

2.2.3.1 The system shall show list of contacts and partners.

2.2.3.2 The system shall show details about contacts and partners – Full name, company name, social accounts, email, phone number, field, etc.

2.2.3.3 The system shall let admins to add new contacts.

2.2.3.4 The system shall let admins to update details of relations.

2.2.3.5 The system shall let admins to remove exists relations.

2.2.3.6 The system shall not let admins to be able to create 2 relations with the same email.

2.2.3.7 The system should let users to select these relations as counterparty when creating orders.

2.2.3.8 The system should let users to relate orders and relations directly.

2.2.4 Stocks module

2.2.4.1 The system shall let admins and users to see list of products and services.

2.2.4.2 The system shall let admins and users who have correct privileges to add new products and services.

2.2.4.3 The system shall let admins and users who have correct privileges to update list of products and services.

2.2.4.4 The system shall let admins and users who have correct privileges up delete already exists products and services.

2.2.4.5 The system shall not let admins and users who have correct privileges to create two products or services with the same name and type.

2.2.4.6 The system shall let admins and users to update quantity of products from the warehouse module.

2.2.4.7 The system shall not let admins and users to update quantity of services from the warehouse module. (It should be **one** by default)

2.2.5 Orders module

2.2.5.1 The system shall show list of orders.

2.2.5.2 The system shall allow admins and users who have right privileges to create new orders.

2.2.5.3 The system shall allow admins and users who have right privileges to update information about the orders.

2.2.5.4 The system shall allow admins and users who have right privileges to delete already exists order.

2.2.5.5 The system shall show information about order details – consumer details, content of order, date and time stamps, the counts of this product or service before and after the order, etc.

2.2.5.6 The system should show status of the current order – new, in progress, done.

2.2.5.7 The system shall not allow users to create an order with already exists order id.

2.2.5.8 The system shall offer these data to use in different modules too – mainly required in Reports and Tracking.

2.2.6 Reports module

2.2.6.1 The system shall show reports based on stocks, products, services, and orders.

2.2.6.2 The system shall show reports based on daily, monthly, and yearly periods.

2.2.6.3 The system shall show reports based on products which is about the previous and current product count, margin, index, and prices.

2.2.6.4 The system shall show reports based on customers about their daily, monthly, and yearly period of orders.

2.2.6.5 The system shall show reports based on orders about their price, content, date etc.

2.2.7 Tracking module

2.2.7.1 The system shall show list of all physical equipment's which have GPS system integrated – surfboards, fins, leash, etc.

2.2.7.2 The system shall show details and status of all active devices.

2.2.7.3 The system shall allow admins and users who have right privileges to add new gadgets.

2.2.7.4 The system shall allow users to see current position and last active time of all physical surfboards and kits.

2.3 User characteristics

The main aim of this application to make it accessible and easy to use without any regulations and pre necessary knowledge. We're planning UI/UX to be as possible as easy to understand so we are planning to implement special "Wizard" which will help users understand how each module works. In additions, with the help of tools like tooltips and descriptions it will be easy to use this application without any pre requirement knowledge.

2.4 Constrains

We are planning to run this application as cloud application in web, so there are not any specific limitations for hardware. You only need a working laptop, internet connection and one of modern browsers already installed. It can be Google Chrome, Opera, Mozilla, Safari, etc. but Internet Explorer will not be good option.

You can use different modules from different tabs and devices without any problem. This kind of operations are called parallel operations and the system handle it with the logic that the last one is more important. For example, if you update details of any user from 2 tabs same time, the application will take the second API call as a mandatory.

2.5 Assumptions and dependencies

These factors are not design constraints on the software but any changes to these factors can affect the requirements in the SRS. For example, an assumption may be that a specific operating system will be available on the hardware designated for the software product. If, in fact, the operating system is not available, the SRS would then have to change accordingly.

This section will update during the development because dependencies and third-party libraries are changeable. There will be list of all dependencies and their versions as table to avoid and difference. Any changes to these factors can affect the application to not work as expected.

3. Specific requirements

3.1 Multiple users' same tenant.

Multiple users should be able to access to the same tenant. In other words, one tenant can be connected to different users. In most of the projects, each “module” is managing by different person. That’s why this feature is one of the main requirements for the application.

3.2 Provide customer support

All users of each tenant shall be able to contact with customer support 7/24. None of any application is out of bugs, that’s why people always need someone who can help if any problem occurs during using it. Because this application is going to manage all processes of the company, customer service is one of the main requirements for application and it needs to be easy to access for all customers.

3.3 Email confirmation

Users, who are going to register, who will be added to tenant as a new user should accept registration by received email. The main purpose of this requirement is for security, because this application is going to store all sensitive information about the company, and no one want to share this data with 3rd of person. To stop this kind of security leaks, email confirmation is good solution to verify people who are registering and not spamming.

3.4 Usability

There is not any pre requirement for this application and anyone who need to manage his system can access to this application and use it. The main purpose of UI/UX was to design something that which look easy to people who even don’t have any experience with IT

application. Because there are a lot of ERP and management application in the world but the main problem that most of them sounds weird to managers and they don't want to start to use something new which look "weird"

3.5 Accessibility

This is cloud based application which means that, you need any specific device or gadget to access this application. The main things that you need are device to connect internet, internet connection and modern browser. Most of the browsers should work fine with this application but the main ones which are suggested – Google Chrome, Mozilla, Opera, Safari. Internet Explorer is not suggested one to use this application, you can have troubles to access to the system and see your data.

3.6 Performance

As performance requirement you need at least 2 rams to run the application properly. This is not required by the application directly, but you need it to run OS system and browser. To avoid performance issues, this application is using pagination and limits to don't show data in one page to avoid performance leak and issues. Anyway, none of the application are insurance from any bugs, so if you face any issues, please contact with the customer office.

Appendixes

Appendix A: What's ERP system and what we need to implement them?

Appendix B: What businesses need to manage their data from the single source?

Appendix C: What is Surfing / Kiting spots?

Appendix D: What we need to create application to manage physical gadgets?

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