

SportyShoes

Software Requirements Document

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Introduction

Purpose

The main purpose of this document is to gather data and perform analysis to define the details of a full stake web development of a website named **SportyShoes.com** based on the requirements.

Intended Audience

- **Developers** include UX/UI designers, graphic designers, front-end engineers, backend engineers, database administrators, QA specialists, etc.
- **Project Managers** including product owners and scrum master
- **Marketing Team** including public relations specialists, advertising experts, etc.
- **Employees** including technical and non-technical personnel and managers
- **Company Owner(s)** including the founder(s), CEO, lawyers, advisers, and other board members and shareholders.
- **End-Users** users who will end up using the product and services

Product Scope

Sporty Shoes is a company that manufactures and sells sports shoes. They have a walk-in store, and now, they wish to launch their eCommerce portal sportyshoes.com.

Customers can go on the website and enter their names and payment information and create a user profile and purchase different types of shoes.

Admins can add, update, and remove products from the database as well as the website using their credentials. One or more admin can exist at the same time.

The prototype of the application shall be developed and be available to the management team and other stakeholders.

All tools and technologies shall be introduced including programming languages and tools.

The main repository should be created and become accessible to stakeholders.

The design of the database, security protocols, and user interface shall be approved by the stakeholders before developing a high-fidelity prototype of the application.

Iteration Process

The first release of the application is scheduled to be delivered in two sprints.

- **Kick-off meeting:** high-level design of the database and object-oriented structure
- **Sprint week one:** implement the database and backend using Spring framework
- **Sprint week two:** develop frontend to test the functionality and usability testing

Requirements

User Personas



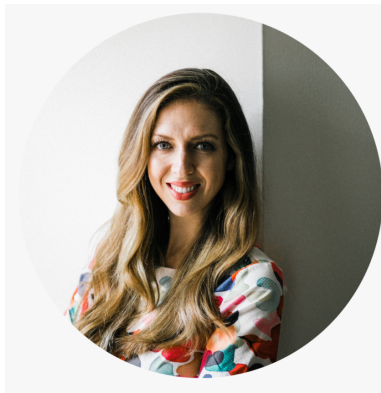
Sam

18 years old, Athlete

Sam is a successful soccer player and needs to buy lightweight and comfortable shoes to improve his performance in his team. He also likes to go hiking every weekend with some of his friends. Sam has a very busy schedule and wants to find suitable shoes without having to spend too much time. He is looking for a safe website with fair prices to buy shoes for himself. Sam thinks SprotyShoes is convenient and can save him a lot of time and money.

Goals and Motivations:

- Finding good quality and professional shoes
- Option to return or exchange products
- Safe and secure payment system



Mary

39 years old, Mother of two children

Mary has two children. Both of those are boys between the ages of 9 and 6 years old. Because Mary is a single mother and works full time, she cannot go shopping too often and needs to find a reliable way to buy some shoes for herself as well as the boys. She loves shopping from SprotyShoes.com because it has products for kids.

Goals and Motivations:

- Access to the kids' shoes in different models
- User profile saves and updates the family information
- Speed of transaction and shopping delivery

User Stories

1. As an external user, I want to be able to find, good quality sports shoes, so that I can easily buy the product without going to the store.
2. As an external user, I want to see all the product options with details, so that I can find the best option.
3. As an external user, I want to be able to see my delivery status, so that I can have access to the date and time that I receive it.
4. As an external user, I want to be able to create a user profile, so I can save my information and update them when needed.
5. As an external user, I want to be able to navigate easily through the menu so that I can view all the menu options.
6. As an external user, I want to be able to make a secure purchase, so I can make sure my credit cards information is safe.

User Acceptance Criteria

- Given the product name and category, the system shall display the product.
- Given the same name and other required fields, the system shall make the process of purchase with no error.
- Given non-standard or incomplete inputs, the system shall throw an exception without breaking the flow.
- Given data from the admin, the system must create a new row in the database for each admin in the admin table.
- Given data from users, the system must create a new row in the database for each user in the User table.
- Given the name and information, the system must create a new row in the database for each product in the eproduct table.

User Interface

Home Page - Products

SPORTY SHOES - HOMEPAGE

[Home](#) | [Login/Signup](#) |

Product	Price	Category	
Nike SR7	63.50	soccer	Add To Cart
Fila Gold	44.00	soccer	Add To Cart
Adidas F121 Champion	59.99	soccer	Add To Cart

(C) Sporty Shoes 2019

Admin Login

Admin id*	<input type="text" value="admin"/>
Admin Password*	<input type="password" value="....."/>
<input type="button" value="Login"/>	

(C) Sporty Shoes 2019

Admin Table

```
mysql> select * from admin;
+-----+-----+-----+
| id | admin_id | admin_pwd |
+-----+-----+-----+
| 1 | admin    | admin     |
+-----+-----+-----+
1 row in set (0.00 sec)
```

Admin Dashboard

[Dashboard](#) | [Setup Products](#) | [Setup Product Categories](#) | [Browse Members](#) | [Purchase Report](#) | [Change Password](#) | [Logout](#)

Welcome, Admin.

Choose an option from the menu above

(C) Sporty Shoes 2019

Change Admin Password

ADMIN CHANGE PASSWORD

[Dashboard](#) | [Setup Products](#) | [Setup Product Categories](#) | [Browse Members](#) | [Purchase Report](#) | [Change Password](#) | [Logout](#)

Enter new password*	<input type="password"/>
Confirm new Password*	<input type="password"/>
<input type="button" value="Login"/>	

(C) Sporty Shoes 2019

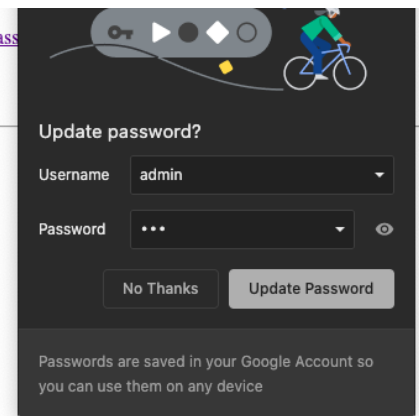
Admin Dashboard after changing password

[Dashboard](#) | [Setup Products](#) | [Setup Product Categories](#) | [Browse Members](#) | [Purchase Report](#) | [Change Password](#)

Welcome, Admin.

Choose an option from the menu above

(C) Sporty Shoes 2019

A dark-themed modal window titled "Update password?". It contains two input fields: "Username" with a dropdown menu showing "admin", and "Password" with a text input showing three dots and a toggle eye icon. Below the fields are two buttons: "No Thanks" and "Update Password". At the bottom, a small text note states: "Passwords are saved in your Google Account so you can use them on any device".

Update password?

Username

Password

Passwords are saved in your Google Account so you can use them on any device

Admin table after changing password

```
mysql> select * from admin;
+----+-----+-----+
| id | admin_id | admin_pwd |
+----+-----+-----+
| 1  | admin    | 123       |
+----+-----+-----+
1 row in set (0.00 sec)
```


Other Requirements

Non-Functional Requirements

- The application must be implemented with Java and Hibernate and Spring framework mapping to MySQL database and using SpringToolSuite4.
- JSP files shall be used to develop the frontend
- The process must be designed and built highly secure.
- The system must be platform-independent and works on different operating systems such as macOS, Windows, and Linux.
- The application should work fast and run smoothly.

Constraints and Assumptions

- The application can only support the English language.
- Users must have access to a keyboard for providing their inputs.
- Assuming the data is saved and backed up repeatedly.

Future Iterations

The next sprint focuses on the front end and UX design.

- Improving the user experience design and usability of the platform
- Adding features to display the latest prices of products dynamically
- Periodically testing, bug fixing, and maintenance
- Developing more tools and features for admins
- Add CSS bootstrap for styling the frontend