Software Requirements Specification

<*SoftUni Blog*>

Version 1.0 approved

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1. Introduction
   1. Purpose

The purpose of this document is to provide an overview of the web application <SoftUni Blog> from a functional perspective. Also part of that work is to illustrate the purpose and complete declaration for the development of system. We will give highlights to some technical considerations relating to the application, and also highlights for some technical and organizational implementation issues. This document is primarily intended to be proposed to a customer for its approval and a reference for developing the first version of the system for the development team.

* 1. Scope

The scope of the project is to create document with software requirements specification for the website <SoftUni Blog>. In order to do this our team will analyze information for managing this web application and information provided on the site.

<SoftUni Blog> is a web application which helps people to create own articles and to read other people’s articles.

The application is free to use and the only requirement is for user to have connection to the internet. All system information is maintained in a database, which is located on a web-server.

* 1. Overview

This document contains the overall description of the website <SoftUni Blog> and the specific requirements for the system. It also provides an overview of the system functionality.

1. Overall Description
   1. Product Perspective

This project is free web application, so customers do not need to buy the product and customize it to reflect their needs. The system is already operational and it can be used without registration. End users only need any conventional web browser to use the system. The interface is intuitive and requires minimal training.

* 1. Product functions

With this web application, the users are able to create an articles on different topics and to read other’s articles.

* 1. User characteristics

There are two types of users that interact with the system: unregistered users and registered users. Each of these two types of users has different use of the system so each of them has their own requirements.

The unregistered users can only use the application to read different articles.

The registered users have this option of unregistered users plus some other features. They can create an article and after that the application allows them to edit or delete this article or a different one which is written by this user.

* 1. Constrains
* Internet connection - since the application fetches data from the database over the Internet, it is crucial that there is an Internet connection for the application to function.

* Capacity - application will be constrained by the capacity of the database. Since the database is shared between all users it may be forced to queue incoming requests and therefor increase the time it takes to fetch data.
* Nonstop - the application should be always accessible by the users.
* Security - the system should enforce user authentication security and guarantee reliability.

1. Flow chart

User

Register User

Unregister User

Edit Article

Create an Article

Delete Article

1. Specific requirements
   1. Product function

|  |  |  |  |
| --- | --- | --- | --- |
| CLASS OF USE CASES | № | USE CASES | DESCRIPTION OF USE CASES |
| Related to System Authentication | 1 | **Account creating** | *Create a working account* |
| Related to System Authentication | 2 | **Login** | *Login into <SoftUni Blog> with the created account details* |
| Related to Setting | 3 | **Change password** | *Login into <SoftUni Blog> with the created account details* |
| Related to Setting | 4 | **Logout** | *Logout from <SoftUni Blog>* |
| Related to <SoftUni Blog> | 5 | **Read Article** | *Available for registered and unregistered users* |
| Related to Article Settings | 6 | **Create Article** | *Creates a new article* |
| 7 | **Edit Article** | *Allows article editing* |
| 8 | **Delete Article** | *Deletes the article* |
| Related to Admin rights in <SoftUni Blog> | 9 | **Remove Article with inappropriate content** | *Removes article* |

* 1. Functional Requirements

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| --- | --- |
| **Use Case № 1** | Create account |
| **Primary actor** | Prospect User |
| **Preconditions** | Installed browser and active internet connection |
| **Main scenario** | * User initiates browser ; * User writes <SoftUni Blog> URL in address bar ; * User gives username, password and fills all fields marked with “\*” ; * System does authentication ; * Start homepage is displayed. |
| **Alternate scenario** | * Authorization fails – existing username or password ; * Authorization fails – missed info in some of the fields marked with “\*” ; * Authorization fails – invalid username or password. |

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| **Use Case № 2** | Login |
| **Primary actor** | Authorized User |
| **Preconditions** | Installed browser, active internet connection, valid account |
| **Main scenario** | * User initiates browser ; * User writes <SoftUni Blog> URL in address bar ; * User gives username and password ; * System does authentication ; * User is logged in <SoftUni Blog>. |
| **Alternate scenario** | * Authorization fails – wrong username or password ; * Authorization fails – forgotten username or password. |

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| --- | --- |
| **Use Case № 3** | Change password |
| **Primary actor** | Authorized User |
| **Preconditions** | Installed browser, active internet connection, valid account |
| **Main scenario** | * User initiates browser ; * User writes <SoftUni Blog> URL in address bar ; * User gives username and password ; * System does authentication ; * User is logged in <SoftUni Blog> ; * User clicks on “Hello {user}!” link ; * User clicks on “Change your password” link ; * User types the new password ; * User gets message for successful changed password. |
| **Alternate scenario** | * Changing password fails – password is in incorrect format. |

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| --- | --- |
| **Use Case № 4** | Logout |
| **Primary actor** | Authorized User |
| **Preconditions** | Installed browser, active internet connection, valid account |
| **Main scenario** | * User initiates browser ; * User writes <SoftUni Blog> URL in address bar ; * User gives username and password ; * System does authentication ; * User is logged in <SoftUni Blog> ; * User clicks on “Logout” link. |
| **Alternate scenario** | * Logging out fails – page cannot displayed. |

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| --- | --- |
| **Use Case № 5** | Read article |
| **Primary actor** | Registered Users ;  Unregistered Users |
| **Preconditions** | Installed browser, active internet connection |
| **Main scenario** | * User initiates browser ; * User writes <SoftUni Blog> URL in address bar ; * User clicks on link with article ; * Article is displayed with title and content. |
| **Alternate scenario** | * Displaying article fails. |

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| --- | --- |
| **Use Case № 6** | Create article |
| **Primary actor** | Registered User |
| **Preconditions** | Installed browser, active internet connection, valid account |
| **Main scenario** | * User initiates browser ; * User writes <SoftUni Blog> URL in address bar ; * User gives username and password ; * System does authentication ; * User is logged in <SoftUni Blog> ; * User clicks on “Create” link ; * User writes title and content ; * User clicks on “Create” button. |
| **Alternate scenario** | * New article creation fails – information in “title” or “content” box not provided. |

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| --- | --- |
| **Use Case № 7** | Edit article |
| **Primary actor** | Registered User |
| **Preconditions** | Installed browser, active internet connection, valid account |
| **Main scenario** | * User initiates browser ; * User writes <SoftUni Blog> URL in address bar ; * User gives username and password ; * System does authentication ; * User is logged in <SoftUni Blog> ; * User chooses existing; * User edits article title or content. |
| **Alternate scenario** | * Editing article fails |

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| --- | --- |
| **Use Case № 8** | Delete article |
| **Primary actor** | Registered User |
| **Preconditions** | Installed browser, active internet connection, valid account |
| **Main scenario** | * User initiates browser ; * User writes <SoftUni Blog> URL in address bar ; * User gives username and password ; * System does authentication ; * User is logged in <SoftUni Blog> ; * User chooses existing article ; * User clicks on “Delete” button. |
| **Alternate scenario** | * Deleting article fails. |

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| **Use Case № 9** | Remove article with inappropriate content |
| **Primary actor** | Administrator |
| **Preconditions** | Installed browser, active internet connection, admin account |
| **Main scenario** | * User initiates browser ; * User writes <SoftUni Blog> URL in address bar ; * User gives admin username and password ; * System does authentication ; * User is logged in <SoftUni Blog>. * User removes article which is with inappropriate content. |
| **Alternate scenario** | * Authorization fails – wrong username or password ; * Authorization fails – forgotten username or password ; * Authorization fails – problem with admin rights. |

1. Reliability

Reliability is an important factor to make <SoftUni Blog> trustable.

* 1. Availability

<SoftUni Blog> should be available 24 hours per day, 7 days per week. Maintenance access period is a two month. Database is backed up.

Mean Time Between Failures (MTBF): 3 month.

Time to repair the system: 8-24 hours.

* 1. Performance

The information retrieval should be as fast as possible for customer satisfaction ;

The server should be able to serve 30 percent of registered customers simultaneously, which may be about several thousand for a medium scaled electronic enterprise.

* 1. Supportability

<SoftUni Blog> should be compatible with the following web browsers:

Google Chrome ;

Mozilla Firefox ;

Opera ;

Internet Explorer.