Software Requirements Specification

SOFTUNI BLOG

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**Software Requirements Specification**

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# Introduction

Herein, there`s a short overview of the SRS document for the blog system.

## Purpose

The purpose of this document is to give a detailed description of the requirements for the “SoftUni Blog” system.It will explain the purpose and features of the system, the interfaces of the system and what the system will do. This document is intended for both the Developers of the system and the Quality Assurance team.

## Scope

The system is a basic online blog, which provides functionality, where users can post their own thoughts, their vision on specific problems or things that are to their interest. The system also allows users to edit or delete their posts.

Users can have different access to the system, access as an ordinary user or as an administrator. Registered users can make posts, edit or delete their posts and administrators can monitor for the correctness of the posts on the blog.

The system works on different browsers and needs Internet connection.

## 1.3 Definitions, acronyms, and abbreviations

|  |  |
| --- | --- |
|  | **Table 1 - Definitions** |
|  |  |
| **Term** | **Definition** |
| Blog | A regularly updated web-based system, which displays the posts of individuals or small group with same interests. |
| Admin/Administrator | A person who is given specific permission for managing and |
|  | controlling the system |
| User | A person who uses functionalities, provided by the system and has some limited permission. |







Stakeholder



Any person who has interaction with the system who is not a developer.



DESC



Description



RAT



Rational



DEP



Dependency



TAG



A unique, persistent identifier contained in a PLanguage statement [2]



GIST



A short, simple description of the concept contained in a PLanguage statement [2]



SCALE



The scale of measure used by the requirement contained in a PLanguage statement [2]



METER



The process or device used to establish location on a SCALE contained in a PLanguage statement [2]



MUST



The minimum level required to avoid failure contained in a PLanguage statement [2]



PLAN



The level at which good success can be claimed contained in a PLanguage statement [2]



WISH



A desirable level of achievement that may not be attainable through available means contained in a PLanguage statement [2]



DEFINED



The official definition of a term contained in a PLanguage statement [2]

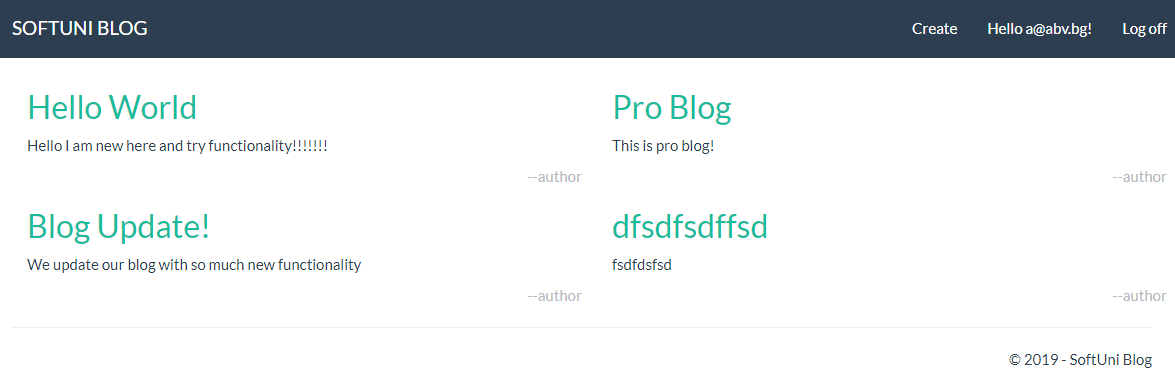


## 1.4.References

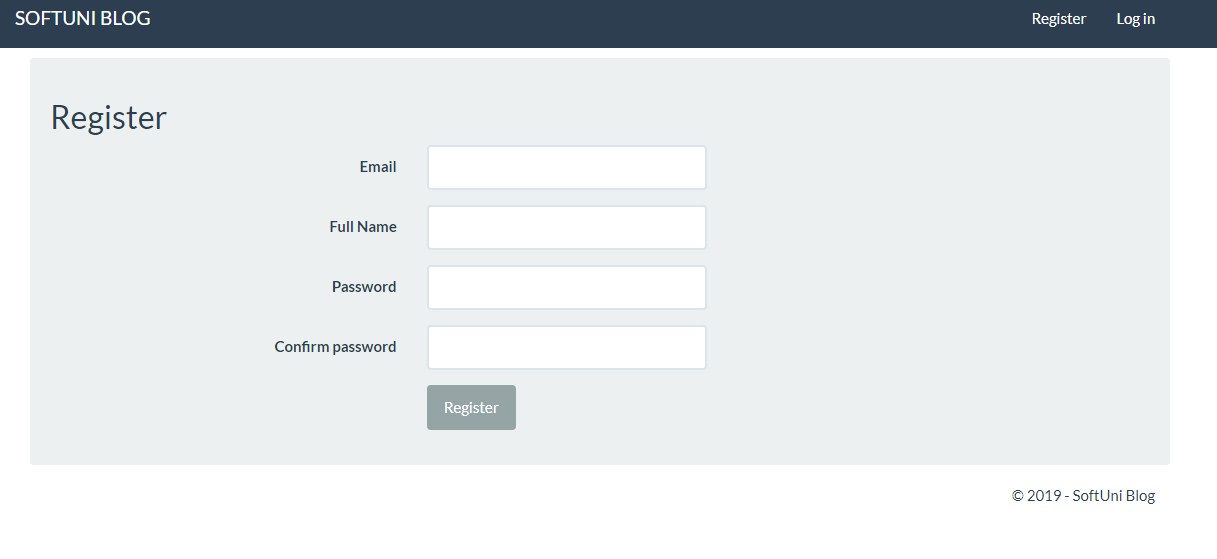
<http://www.softwaretestingstandard.org/> International standards for software testing

## 1.5. Overview

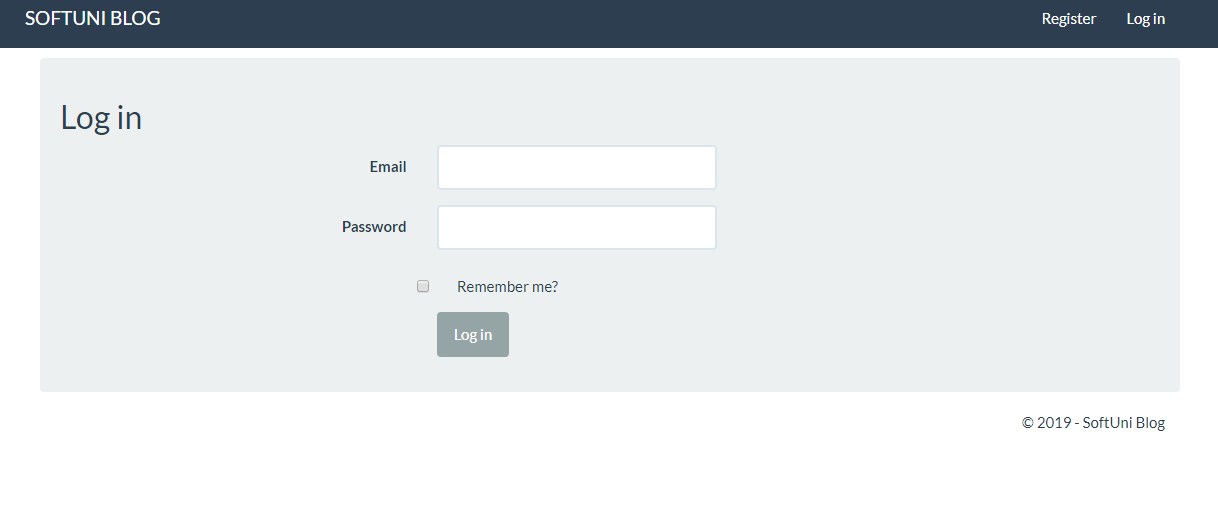
When a user loads the Internet address of the system, he/she should see the home page of the web site:



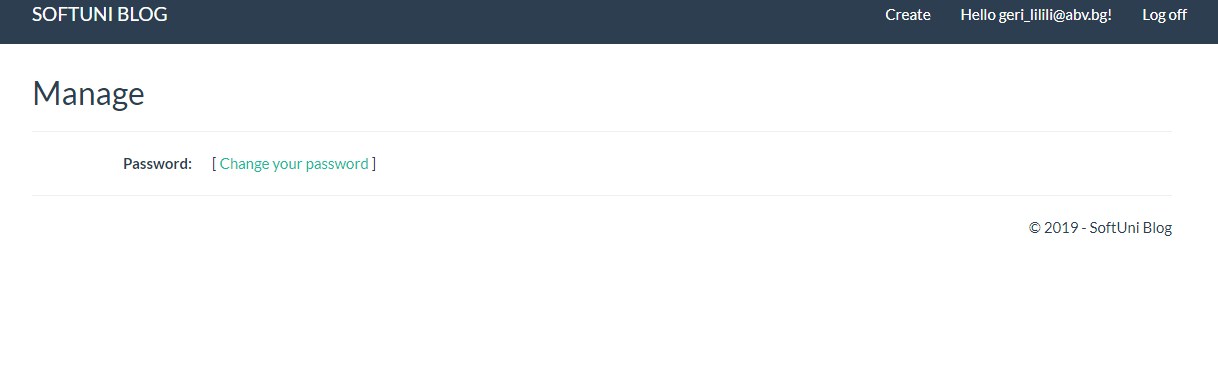
If the user is not registered, he/she must register his/her own profile in the system from the Register menu:



If the user isalready registered, he/she must enter his/her username and password form the Log in menu:



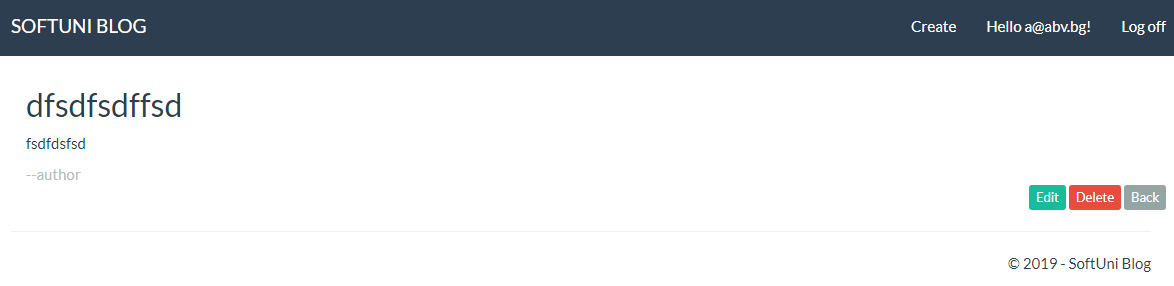
Registered users can manage their profile from special menu, with a functionality for changing password:

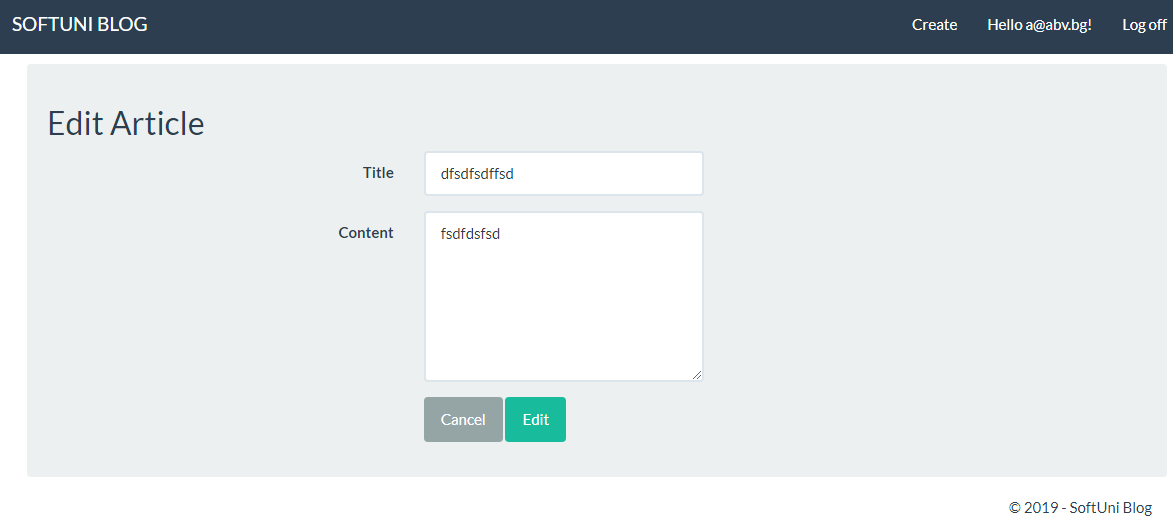


Registered and logged users can create their own articles and publish them to the main page of the blog. They must provide Title and Content for their posts.

### Screenshot_4

Users can edit or delete their posts by clicking on them from the main page:





## 2.3.User characteristics

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

Administrators only interact through the blog portal. They manage the overall system so there is no incorrect information in it.

## 4.Functional requirements

### 4.1. Use Cases

#### 4.1.1 Use Case 1

**ID: UC1**

TITLE: User registration

DESC: When a user loads the Internet address of the system he/she should be able to register his/her own profile from the menu for registration. The user must provide e-mail, full name, password and needs to confirm the password.

Guest user:

1. Loads the Internet address of the system;
2. Goes to the Registration menu;
3. Enters e-mail, full name, password, password confirmation;
4. Submits the form

System:

1. Verifies the information for e-mail. If the e-mail format is not standard the system provides error message;
2. If the password and password confirmation are not the same the system provides error message;
3. Verifies general information and displays an error message if all mandatory fields are not filled;
4. Sends registered details to the database and gives acknowledgement

RAT: In order for a user to register to the system.

DEP: Guest user

#### 4.1.2 Use Case 2

**ID: UC2**

TITLE: User Log in

DESC: Given that the user is registered, then he/she should be able to log in to the system from the Log in menu.

The user must be redirected to the main page of the system.

Registered user:

1. Loads the Internet address of the system;
2. Goes to the Log in menu;
3. Enters valid e-mail and password;
4. Submits the Log in form

System:

1. Verifies login information and displays an error message if user name and/or password are incorrect;
2. Redirects the user to the main page.

RAT: In order for a user to register on the blog.

DEP: Registered user

#### 4.1.3 Use Case 3

**ID: UC3**

TITLE: Retrieve password

DESC: Given that a registered user tries to log in, but doesn`t remember his/her password, he/she must have the option to retrieve his/her password by providing valid e-mail address.

Registered user:

1. Loads the Internet address of the system;
2. Goes to the Log in menu;
3. Goes to the Forgot password menu;
4. Provides valid e-mail address
5. Submits the information

System:

1. Redirects the user to the Forgot password menu;
2. Provides e-mail address submission option;
3. Submits the e-mail ID and provides the reset password link through mail.

RAT: In order for a user to retrieve his/her password.

DEP: The user must be registered and not logged in

#### 4.1.4 Use Case 4

**ID: UC4**

TITLE: Profile page

DESC: When registered user wants to change the information for his profile, he can do this from the profile menu.

Logged user:

1. Goes to the profile menu;
2. Changes the personal information

System:

1. Redirects the user to the profile page
2. Actualizes the database with newly added personal information

RAT: In order for a user to change his/her profile information.

DEP: The user must be logged in

#### 4.1.5 Use Case 5

**ID: UC5**

TITLE: Profile page

DESC: When a registered user wants to change the password, he/she can do this from the profile menu.

Logged user:

1. Loads the Internet address of the system;
2. Goes to the Log in menu;
3. Provides correct username and password;
4. Submits the information;
5. Goes to the profile menu;
6. Adds the old password;
7. Adds a new password
8. Confirms the new password
9. Saves changes

System:

1. Verifies the username and password;
2. Redirects the user to the main page;
3. Redirects the user to the profile page;
4. Verifies that the new password and the password confirmation are the same;
5. Actualizes the database with the new password;

RAT: In order for a user to change his/her password.

DEP: The user must be logged in

#### 4.1.6 Use Case 1.6

**ID:UC6**

TITLE: Create Post

DESC: When a user is logged in , from the main page he/she can choose Create menu, where he/she can create his/her post to the system.

Logged user:

1. Goes to the Create menu;
2. Adds a title for the post;
3. Adds content of the post;
4. Clicks on Create to publish the post;

System:

1. Redirects the user to the creation of a post page;
2. Actualizes the database with the added title;
3. Actualizes the database with the added content;
4. Visualizes the post on the main page.

RAT: In order for a user to create post

DEP: The user must be logged in

#### 4.1.7 Use Case 1.7

**ID:UC7**

TITLE: Edit/Delete Post

DESC: When a user clicks on the text of his/her published post, the system redirects him/her to page, where the user can edit or delete his/her post.

Logged user:

1. Clicks on the text of the post;
2. Changes the title of the post;
3. Changes the content of the post;
4. Clicks on the button Edit/Click or the Delete button.

System:

1. Redirects the user to the creation of a post page;
2. Actualizes the database with newly added title;
3. Actualizes the database with the newly added content;
4. Visualizes the post on the main page.

RAT: In order for a user to edit or delete his/her post

DEP: The user must be logged in

#### 4.1.8 Use Case 1.8

**ID: UC8**

TITLE: Review blog posts

DESC: A user can review posts in the blog made by another user, but he/she is forbidden to edit or delete reviewed post.

Logged user:

1. Clicks on the text of the post;
2. Clicks on the button Edit/Delete.

System:

1. Redirects the user to the creation of a post page;
2. The system returns error message with information,that the user doesn`t have permission for this action.

RAT: In order for a user to review others` posts.

DEP: The user must be logged in

#### 4.1.9 Use Case 1.9

**ID: UC9**

TITLE: Log out

DESC: A user can log out from the system by clicking the Log off button.

Logged user:

1. Clicks on the Logoff button;

System:

1. Terminates the session of the user;
2. Redirects the user to the main page.

RAT: In order for a user to log out from the system

DEP: The user must be logged in

4.2 Non-functional requirements

4.2.1 Usability Requirements   
  
•    Colors that we use on this web system design must be attractive.  
•    Easy navigation is preferable to do any task.  
•    Multiple flows (ways) are preferable to do any task.  
•    Home page should be centralized system (Screen/Window) to navigate to any feature and to get any result.  
•    The facility to return to Home page from any page should be available.  
  
4.2.2    Performance Requirements   
  
•    It has to load, within the industry standard time.  
•    It has to support up to 1 000 concurrent users.  
•    Response time should be 4 seconds

4.2.3    Compatibility Requirements

•    It should support all types of hardware versions, operating systems and browsers  
  
4.2.4    Operating Systems   
  
•    Operating systems -Wndows98 and upper Versions (EX: Win98, windows 2000 prof, XP Vista and win NT Server,windows 2000 server, 2003 server and windows 2008 server)  
   
4.2.5    Browsers   
  
•    IE 6.0 and higher versions , Latest versions of Mozilla Firefox, Opera and Google Chrome  
  
4.2.6    Security Requirements  
  
•    Data should be encrypted during Login and while performing publishing.  
•    Server on which database resides must have its own security to prevent unauthorized access. It should be accessed only by the privileged users  
•    The server on which application resides must have its own security. Authorization and Authentication checks should be performed.

## 4.3.Performance requirements