**Team Kumquat**

**Software Requirements Specification**

**Document**

**“BLOG”**

**Version: 0.0.0.1** **Date: (04/24/2017)**

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# 1. Introduction

*“Blog” is an application allowing users to generate content(blogs) and administrators to manage users and content. To be continued…*

## 1.1 Purpose

The following document targets the QA team responsible of verifying and validating the functionality of the “Blog” application. The document contains brief description of the created functionality, its separation in modules (controllers and views), and points of interest for testing.

## 1.2 Definitions, Acronyms, and Abbreviations.

MVC - **Model–view–controller** is a software architectural pattern for implementing user interfaces on computers. It divides a given application into three interconnected parts in order to separate internal representations of information from the ways that information is presented to and accepted from the user.The MVC design pattern decouples these major components allowing for efficient code reu[se](https://en.wikipedia.org/wiki/Code_reuse) and parallel development.

LocalDB - a lightweight version of the SQL Server Express Database Engine that is targeted for program development

MSSQL - **MS SQL** Server is a relational database management system (RDBMS) developed by Microsoft. This product is built for the basic function of storing retrieving data as required by other applications. It can be run either on the same computer or on another across a network.

VS - **Microsoft Visual Studio** is an integ[r](https://en.wikipedia.org/wiki/Integrated_development_environment)ated development environment (IDE) from Microsoft. It is used to develop computer programs for Microsoft Windows, as well as web sites, web apps, web services and mobile apps. Visual Studio uses Microsoft software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It can produce both native code and managed code.

Selenium WebDriver - designed to provide a simpler, more concise programming interface in addition to addressing some limitations in the Selenium-RC API. Selenium-WebDriver was developed to better support dynamic web pages where elements of a page may change without the page itself being reloaded. WebDriver’s goal is to supply a well-designed object-oriented API that provides improved support for modern advanced web-app testing problems.

NUnit - NUnit is a unit-testing framework for all .NET languages. Initially ported from JUnit, the current production release, version 3, has been completely rewritten with many new features and support for a wide range of .NET platforms.

.NET - a software framework developed by Microsoft that runs primarily on Microsoft Windows. It includes a large class library named Framework Class Library (FCL) and provides language interoperability (each language can use code written in other languages) across several programming languages.

To be continued with all products…

## 

## 1.4 Overview

*The SRS document contains general description of the available UI and its expected functionality.*

# 2. The Overall Description

## 2.1. Requirements for Development

The development machine must:

* run Windows OS
* have .NET 4+ framework and MVC4+ framework
* have running IIS
* have MSSQL Server 2016 instance, including MSSQL Express edition
* have Visual Studio 2012+ edition

## 2.2. Requirements for Deployment

The server machine must:

* run Windows OS
* have .NET 4+ framework and MVC4+ framework
* have running IIS
* have MSSQL Server 2016 instance, including MSSQL Express edition

The client machine must:

* have a browser that can interpret HTML5, CSS3 and JavaScirpt: IE11, Edge, Chrome, Firefox.

## 2.3. Functionality

* 1. User
* Register with e-mail, Full name, password. Each must be verified.
* Login by email and password with option to remember the credentials
* Edit account - change password only;
* List articles
* Create article
* Edit own article
* Delete own article
* Read all articles
* Log off
  1. Administrator User
* Standard user
* List users
* Edit user account
* Delete user account
* Edit any article
* Delete any article

## 2.4. Constraints and Requirements

* Only one user should be able to edit an article at a time
* Users edited or deleted by an admin should be logged off on submitting the change
* Multiple users should be able to login at a time
* Admin account is [admin@admin.com](mailto:admin@admin.com) password 123 (username Admin)

## 2.5. UI

* Article/List
* Account/Register
* Manage/ChangePassword
* Account/Login
* Article/Create
* Article/Details/id
* Article/Edit/id
* Article/Delete/id
* Users/List
* Users/Edit/id
* Users/Delete/id

## 2.6. General functionality by views

* Welcome screen Article/List - articles by all users
* Register/Login links or Create/welcome message/log off options listed on top depending on user is logged or not
* SOFTUNI logo leading to welcome screen
* Registration form Account/Register
* User screen =Welcome screen with displayed welcome message
* User edit account Manage
* User change password Manage/ChangePassword - status view is Manage?Messgae=XXXXX
* Log off goes back to Welcome screen without displayed welcome message
* Login Account/Login (remember me function) - leads to welcome screen with welcome message
* Create button for logged users - Article/Create
  + Cancel goes back to welcome screen with displayed welcome message
  + Create goes back to welcome screen with displayed welcome message and newly added article in the list (title, content, author must be displayed) \*author is not displayed, unless it is the admin user (bug)
* Clicking an article in the welcome screen goes to Article/Details/[article\_id] with Edit/Delete/Back options
* Edit/Delete operations on not owned articles bring 403 unhandled error (not authorized action)
* Back button goes back to welcome screen with welcome message
* Edit on owned article goes to Article/Edit/[article\_id]
  + Cancel goes back to Welcome screen with displayed welcome message
  + Edit saves changes and goes back to the welcome screen with welcome message
* Delete on owned article goes to Article/Delete/[article\_id]
  + Cancel goes to welcome screen with welcome message
  + Delete removes the article and goes back to welcome screen with welcome message

Administrator additional screens:

* On Article Edit/Delete can make the changes without the 403 authorization error
* Admin link next to the welcome message leading to Users/List
* Edit User goes to User/Edit/[user\_id\_as\_guid]
* Options to make the user admin, change email, full name, password (no cancel or go back, saved change are reflected at Users/List)
* Delete user goes to User/Delete/[user\_id\_as\_guid]
  + Cancel goes back to User/List
  + Delete saves changes and goes back to User/List