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|  | [MyBlogs]  Database Design Document |
|  | [05/20/2018] |

Preface

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Contents

[1. Introduction 1-1](#_Toc514679368)

[Requirement 1-1](#_Toc514679369)

[Technologies Used 1-1](#_Toc514679370)

[Database Details 1-1](#_Toc514679371)

[Tables Used 1-1](#_Toc514679372)

[1. tbBlogUser 1-1](#_Toc514679373)

[2. tbBlogPost 1-2](#_Toc514679374)

[3. tbBlogComments 1-2](#_Toc514679375)

[4. tbBlogPublicUserComments 1-2](#_Toc514679376)

[Stored Procedures Used 1-2](#_Toc514679377)

**Note:** The above table of contents is automatically created from text that is styled with Heading 1, Heading 2 and Heading 3 in the following pages (right-click on the table and select “Update Field”).

# Introduction

## Requirement

Create a simple blog application that allows only authenticated users to add a new post. There will be 2 levels of authorization in the web application a “Standard User” and an “Admin User”. Each user will have access to separate parts of the application and can perform different tasks.

Key Functionalities:

1. A user can register in the web application.

2. A user can login to the application.

3. A signed in user can create a new blog post.

4. Public users can view any post and leave a comment on the post.

5. A blog post can have many comments.

6. An admin user can delete a post.

7. An admin user can delete a Standard User and not an Admin User.

8. An admin user can give admin permissions to another user.

## Technologies Used

|  |  |
| --- | --- |
| **Backend** | **Sql Server with Entity Framework, ADO.Net** |
| **Front End** | **Angular 4** |
| **Server side** | **WebAPI** |
| **Framework** | **Asp.Net Core** |

## Database Details

### Tables Used

1. tbBlogUser :

This table holds the details of all users. The table details are as follows:-

|  |  |  |  |
| --- | --- | --- | --- |
| **FieldName** | **DataType** | **Description** |  |
| **BlogUserID** | **int** |  | **Primary Key** |
| **BlogUserName** | **varchar** | **Name of the user** |  |
| **BlogUserPassword** | **varchar** | **Password of the user** |  |
| **BlogUserEmailID** | **varchar** | **Email of the user** |  |
| **BlogUserCreatedDate** | **DateTime** | **User creation date** |  |
| **BlogIsAdmin** | **Bit** | **Admin user or not (0 or 1)** |  |

### tbBlogPost

This table holds the blog details. The table details are as follows:-

|  |  |  |  |
| --- | --- | --- | --- |
| **FieldName** | **DataType** | **Description** |  |
| **BlogPostID** | **int** |  | **Primary Key** |
| **BlogPostTitle** | **varchar** | **Title of the post** |  |
| **BlogPostBody** | **varchar** | **Body of the blog** |  |
| **BlogPostDate** | **datetime** | **Blog posted date** |  |
| **BlogPostByUserID** | **int** | **Who posted the blog** | **FK/ tbBlogUser/BlogUserID** |

### tbBlogComments

**This table holds the comments details. The table details are follows**

|  |  |  |  |
| --- | --- | --- | --- |
| **FieldName** | **DataType** | **Description** |  |
| **BlogCommentID** | **int** |  | **Primary Key** |
| **BlogCommentParentID** | **varchar** | **User ID** |  |
| **BlogRoleID** | **int** | **Role ID** | **FK/tbBlogRoles/BlogRoleID** |
| **BlogPostID** | **int** | **blog details ID** | **FK/tbBlogPost/BlogPostID** |
| **BlogComment** | **varchar** | **comments** |  |
| **BlogCommentByUserID** | **int** |  | **FK/ tbBlogUser/BlogUserID** |
| **BlogCommentDate** | **datetime** |  |  |

### tbBlogPublicUserComments

**This table holds the public user comments details. The table details are as follows:-**

|  |  |  |  |
| --- | --- | --- | --- |
| **FieldName** | **DataType** | **Description** |  |
| **BlogPUCommentID** | **int** |  | **Primary Key** |
| **BlogPUComments** | **varchar** | **comments** |  |
| **BlogPUPostID** | **int** | **Post details ID** | **FK/tbBlogPost/BlogPostID** |
| **BlogPUCommentsParentID** | **int** |  |  |
| **BlogPUUserName** | **varchar** | **Public user name** |  |

### Stored Procedures Used

|  |  |
| --- | --- |
| **Stored Procedure** | **Description** |
| **spAddBlogUser** | **This stored procedure will add new user to the database.** |
| **spGetBlogs** | **This stored procedure will retrieve all the blog posts.** |
| **spGetBlogsByBlogPostID** | **This stored procedure will retrieve the blog posts based on the post ID** |
| **spGetValidateUser** | **This procedure will validate the user** |
| **spUpdateAdminUser** | **This procedure will update the admin permissions** |