Final Project Module

SD203 Full Stack Web Application Development

Design Document

William Maskevich

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Design Document

Project Name

This Full Stack Web Application will be titled: Enhanced Blogger.

Overview

The Enhanced Blogger Web Application provides tools and resources to improve the serious blogger’s blogging experience. The Personal Log feature allow bloggers to organize the blogs they are interested in via categories and/or bloggers; this feature puts at the bloggers fingertips, the blogs they are interested in and want to track. The Work Space feature provides a convenient place within the app to organize thoughts and comments a user might have as they prepare to post (or respond to) a blog that is long or complex; the need for pen and paper or other resources other than this Web App is alleviated to a large extent. These two features should appeal to bloggers who want to do more than just “blog off the top of their head”. The “Profile Page” allows interested users to write a bio, upload photos for posting, decide on a nickname, and if desired make personal info available to other bloggers. The Profile Page provides access to the Personal Log and Work Space features via links to those pages; summary info from the two enhanced features are provided within the user’s Profile Page.

Tech Stack

The following software and hardware will be used to create the web app:

Windows

C#

ASP.NET

Visual Studio Community Edition

Microsoft SQL Server

Hosting

Initially this site will be “hosted” via IIS Server as a localhost, local network application. Should the project ever proceed to production and hosting on the internet, this info will be updated.

Functionality / Features

The Enhanced Blogger Web App will have “enhanced” blogging features beyond those of standard blog applications; see below for standard blog features.

1. Users will be able to select from several (4-5) blogging themes to visit.

2. Users will be able to select subthemes to visit and in some cases assign new subthemes.

3. Users will be able to set up profiles including personal info, nicknames, bio, photos

4. Users will access via their profiles to a personal log and to a workspace.

5. Personal logs allow users to track their own blogs and the blogs of topics or other users

6. Workspaces will allow users to record notes & thoughts to aide in developing blog posts.

7. Search for a specific blog post

This standard blog type features this app will allow some or all of the following:

● Users will be able to sign up for accounts

● Users will be able to login in.

● Users will be able to create a blogger’s profile.

● Users will be able to view their own & other’s profiles, but not delete other’s data.

● Administrator accounts will have total control over the site.

● Users and blog posts will be saved to the database

● Users will be able to create a new blog post

● Users will be able to edit their own blog posts

● Users will be able to delete their own blog posts

● Users will be able to view a history all their blog posts

● Users will be able to view posts and the details of a post

Class project note: the standard features for blogging, even though they appear in previous projects, may need to be trimmed down in number in order to complete the project within the allotted time. The list will be trimmed after instructor review, incorporating instructor’s comments.

Security & User Roles

Users can sign up as “Normal Users” and have general access to blog posts and their own profile data. It is contemplated that a “Premium User” account type will be available for access to “Personal Log” and “Work Place” features. If the Premium User account type is not implemented, the aforementioned features will be part of the Normal User type account.

An “Admin” account will be implemented to decide on adding user suggested themes and subthemes. The Admin account will be able to see the information about all users of the website, although in final form personal info of users will not be available to even an admin type account.

While a “Guest” type user was contemplated, there may not be sufficient time to implement this role on the first release. Guest account can only browse and perhaps post but with no storage or retrieving capacity.

Users will be required to login to their account to use the website, unless they use the site as a guest.

Site Layout Site Map

The site layout map will consist of levels and, where intended, separate paths from each level.

Level 1: Home (carousel w/ paths 2A, 2B, and 2C)

Level 2, Paths A, B, and C: Blogging Themes 1, 2, & 3

Level 2, Path D: “My” Profile

Level 2, Paths – misc: About Us, Site-Map, Rate This Site, Privacy Policy

Level 3, Blog Theme paths The various blogs pages

Level 3, My profile path Profile page

Level 3, About Us path News, Team, History, Contact Us

Level 3 Privacy Path: Cookie Policy,

Level 4, Profile path Personal Info Page, Personal Log, Work Space

Some of these are auto-generated by ASP.NET and merely need to be edited.

HOME

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About US Blog Themes #1,2,3 “My” Profile Site-Map Rate This Site Privacy Policy

| | | |

| | | Cookie Policy

| Blog Page (CRUD) |

| |

| Personal Info Personal Log Work Space

|

News, Team, History, Contact Us

Page Templates

The following page templates will be needed for my site:

The Home Page (will incorporate a carousel);

The Blogger Theme Page (will have a Jumbotron component);

The My Profile Page (will have a sign-on);

The Personal Log Page;

The Work Space Page; and,

The informative pages (About Us, News, Site-Map, Rate This Site, Privacy Policy, etc).

Browser & Device Support

This web app will support the following browsers:

Windows 10; Firefox; and, Chrome.

The web application will be created with responsive web design concepts; the web app will perform well on a mobile device.

Database Design

A list of the database tables that will be used in my site is included here.

Table Name Primary Key Foreign Key .,. Linking to:

Blogger Themes themeID

Blogger Sub-themes subthemeID themerId Blogger Themes

Profiles profileId

BlogPosts posted userId Profiles

subId Blogger Sub-themes

PersonalLog logId profileId Profiles

trackerId BlogPosts

WorkSpace workId workerId Profiles

forId Blogger sub-themes

To get my project rolling, this is a good starting point for my tables in terms of Foreign Keys. In the coming days I will define the actual data to be stored and determine if additional Foreign Keys are needed. I’m pretty certain I won’t need additional tables.

Deadlines

This project is due by the end of the course; additionally, task completion dates are provided.

Completion Dates

Phase or Task Sched’d Actual Comments

Design Documentation Sept 30th Oct 6th Pending instructor’s review and sign-off

UI Mockups Oct 7th Need to download, install, build mock-ups

Unit Test Tutorial Submission Oct 14th Need to go through the tutorial

Build UI Front end Oct 14th Create templates each page, use bootstrap

Implement the Database Oct 21st

Implement the Backend Nov 3rd

If you feel that you are falling behind, get help from your instructor so that you stay on track.