Final Project Module

SD203 Full Stack Web Application Development

Design Document

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SD203

Full Stack Web Application Development

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 groups; 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, and decide on a nickname. 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 10 Home Version 1903

C# Tools 3.7.0

ASP.NET CORE Version 2.1

Visual Studio Code 16.Release/16.7.2+30413.136

Visual Studio Community Edition 2019 Version 16.7.2

Microsoft SQL Server Management Studio Version 18.6

Firefox 81.0.1 (64-bit)

IBM “Compatible” Computer Intel(R) Core(TM) i3-3120M

Installed Physical Memory (RAM) 12.0 GB

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 set up profiles including personal info.

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

3. Users will be able to select subthemes to visit.

4. Users will be able to browse blog posts listed under the various subthemes.

5. Users will be able to assign blog posts to Groups (in the Personal Log) and Topics (in the Work Space).

6. Personal logs allow users to group blogs of interest and their own comments under various groupings.

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

8. Users will be able to create and edit Groups and Topics to organize blogs and thoughts.

9. Users will be able to create and edit items within the Groups and Topics.

10. Search for text within blog posts – not yet added

**Limitations**

● We will not be implementing user logins or multiple user accounts

● Users will not be able to edit a previous blog post

● Users will not be able to delete a blog post

Security & User Roles

No implementation of security and user roles is made.

Site Layout Site Map (not updated)

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 the pages 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 Theme Page (will incorporate a carousel);

The sub-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 modern updated browsers as well as:

Windows 10; Firefox 81.0.1 (64-bit); and, Chrome Version 86.0.4240.75 (Official Build) (64-bit).

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

Responsive Design

This web app will support responsive design. Responsive design will be achieved by following certain guidelines that allow the web app to: properly display on a variety of screen sizes; allow the use of accessibility means such as being compatible with screen readers, allow for the zooming of text, and generally make all links relatively large; and utilize coding practices that generally provide for responsiveness and accessibility.

*Specific Guidelines within HTML and CSS Include:*

Utilize html meta tags to adjust content to mobile device screen tags;

Always use closing tags on HTML elements;

Use CCC in lieu of JavaScript (JS) to maximum extent possible in the event users disable JS in their browsers;

Utilize pictures with relevant tags and attributes;

Find best balance between pictures and images;

Utilize target attribute when including hyperlinks;

Use lists when a list of items is provided;

Include descriptive labels as well as the target attribute whenever forms are used;

Specifying multiple font families where applicable;

Specifying font size in relative terms rather than fixed (relying on %, em, and vw specifications);

Account for overflow;

Review tutorials on positioning and display to incorporate responsive factors;

Utilize floats and media queries (need to review W3C schools);

Default to flex-box for formatting to have better control over display and better control for responsiveness;

Utilize colors throughout site for easier viewing and to highlight items such as hyperlinks; and,

Utilize Bootstrap as a framework for the presentation of my Web App pages.

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 Completed

Design Documentation Oct 7th Oct 6th

Database Creation Oct 8th

ASP.NET MVC Scaffolding Oct 8th

Controllers and Constructors Oct 22nd

Finalize Views Oct 22nd

Beta Testing Oct 28th

Class Demo Nov 4th

If I feel that I am falling behind, I will seek help from my instructor so that I stay on track.

My Themes and sub-Themes

Table BlogThemes:

Theme ID(PK) ThemeName

1 Science and Math

2 Current Events

3 Here We Are

4 Web Application Development

Table BlogSubThemes:

subTheme ID(PK) themeId(FK) subThemeName’

( 1, 6, ‘Health’, '2020-10-14 09:15:00 AM'),

( 2, 6, ‘Space’, '2020-10-14 09:15:00 AM'),

( 3, 6, ‘Technology’, '2020-10-14 09:15:00 AM'),

( 4, 7, ‘Elections’, '2020-10-14 09:15:00 AM'),

( 5, 7, ‘Covid-19’, '2020-10-14 09:15:00 AM'),

( 6, 7, ‘Jobs’, '2020-10-14 09:15:00 AM'),

( 7, 8, ‘Communication’, '2020-10-14 09:15:00 AM'),

( 8, 8, ‘Politics’, '2020-10-14 09:15:00 AM'),

( 9, 8, ‘Life in General’, '2020-10-14 09:15:00 AM'),

( 10, 9, ‘Frontends’, '2020-10-14 09:15:00 AM'),

( 11, 9, ‘Databases’, '2020-10-14 09:15:00 AM'),

( 12, 9, ‘Back ends’, '2020-10-14 09:15:00 AM'),

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.

Page = Themes

Feature Model(s) IAction(s) View(s)

Display Themes BlogThemes List() List

Note(s): A carousel of themes

Add Links:

To login

User profile of user

User’s WorkSpace

User’s Personal Log

Hello to specific user

Page = subthemes== **page dedicated to a theme and its subthemes**

Feature Model(s) IAction(s) View(s)

Display this Theme and its subthemess BlogThemes List() List

BlogSubThemes List() List

Note(s) : A Jumbtron of the selected theme

A choice of sub=themes to blog on

Add Links, etc

To login

User profile of user

User’s WorkSpace

User’s Personal Log

Links to themes?

Hello to specific user

Blogs Replies

Comm

Many people will rattle off several sentences as “take-up” space around one sentence they want to say. Others will talk in phrases and words. Others, when the listener is unsure what the speaker is conveying, will devolve to single words instead of providing additional complete sentences, making the attempt to communicate more futile than before. But effective communicators know that, in this English language of ours, it takes three sentences to effectively communicate what the speaker is trying to convey. Take any sentence you can say and write it down; the next day give thought to how many different interpretations can be made from that one sentence. Next, add a second sentence to try to narrow down those interpretations, and finally a third. You will find that that third sentence really narrows down the interpretations a listener could make. Sometimes it will take more, but three is the minimum for effectively communicating to a listener what it is that you want them to know.

Now many people intending to be clever or to dispute the claim above will rattle off a single sentence that seemingly runs counter to the above claim. Now there are instances where a single sentence will suffice but lets think about the intent of the just mentioned type of verbalization. If it is their intent to dispute the three-sentence communication claim and it is merely stated “I like ice-cream,” has the communication rule above really been disproven? The answer is a resounding NO! In the intent to disclaim the above, vital information was left out about the thought that was being communicated; the thought attempted to be communicated was that it does not take three sentences to effectively communicate a thought. But, because of the ineffective communication of the actual thought, something else was communicated (that is, that person likes ice cream). The three-sentence rule remains unchallenged, undisputed, and has not been disproved.

This blogger accepts the notion that a friend saying to another while eating ice cream, “I like ice cream”, that this is a pure exception to the general rule.

reply

Cheers!

Well, Wait, he’s right. I settled in for my Sunday nightcap and meant to say “cheers” as in cheers to a great blog! I wonder if that what I communicated?

Uh, thanks buddy. If everybody practiced effective communication, how would I tell my wife, :but that’s not what you said!”

Awesome, great comment, now we can get rid of all those infernal books since we only need three sentences to convey anything!!LOL

Political

Replies

Gee another pundit! If the military ran this country we could get rid of all the idiots!(And I could use a poliictically incorrect word like idiot that means all the people I don’t like, lol)

Good thoughts but is it too idealogical? After all, everybody wants their tax breaks.

Your’e nuts, the Sithe rules!!

Blog Pages per sub-Themes and Blogging

Features:

**BASIC BLOGGING**

**List out the blog posts**

**BLOGGINGPAGE**

**DISPLAY**

**List of individual blogs**

**Summary list of Groupings w/ certain if not all header info**

**Summary of WorkSpace topics w/ relevant header info**

**CREATE**

**Nothing**

**LINKS, etc**

**User profile of user**

**User’s WorkSpace**

**User’s PersonalLog**

**Links to themes?**

**Hello to specific user**