**Project Proposal- Book Shelf:**

1. What goal will your website be designed to achieve?

The goal behind this capstone website is to create a unique and more helpful system to stay up to date on my reading goals. As an avid reader it’s hard to keep track of all the current works, I’m interested in reading or would like to read in the future. The purpose of this website is to assist in keep tracking of what you are currently reading, what you would like to read, and what you have read. Essentially it can be viewed as my personal take on say a good reads or even bookshelf app found on modern phones.

2. What kind of users will visit your site? In other words, what is the demographic of your users?

In terms of what kind of users, I expect to visit my site I expect most demographics to!

In terms of reading, it’s an interest that stretches out and intrigues various generations regardless of tech savvy-ness. So, anyone who enjoys reading or even the occasional book I believe would benefit from the idea of this website.

3. What data do you plan on using? You may have not picked your actual API yet, which is fine, just outline what kind of data you would like it to contain.

The data I plan on using would be related to mostly book information. Aside from user input/logins in the scaled-up version the main aggregate of data would be information about novels. Having already researched book API’s which has been included in my Capstone Idea’s document I would like to use one of those mentioned to gather the data for this project. Both API’s deal in data related to novels which will allow users to search, select, and add rows into their own tables based on the API results.

4. In brief, outline your approach to creating your project (knowing that you may not know everything in advance and that these details might change later). Answer questions like the ones below, but feel free to add more information:

In terms of creating my project I hope to follow the natural flow that has been demonstrated throughout our flask-based applications thus far. I plan to begin by setting both my application base and database’s up. Once both have been tested and shown to be connected next would be setting up our API connections and confirm are able to retrieve information. Of course, that will not be without any issues, and I expect to encounter a learning curve while working with a new API. In terms of user data, that information will need to be encrypted using Bcrypt to confirm sensitive information isn’t being shared between unauthorized users. The main application will allow a user to select a novel, add it to their shelf, set a status (reading, etc.), update their overall list, and remove novels. Hopefully I hope to incorporate a recommendation feature which will allow a user to stay update with an author’s most recent releases they have possibly missed.

Author: Mahad Osman

Date: February 18, 2023

Assignment: Project Proposal