

Assignment 2: INFR 3120

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Posted: November 4th, 2018
Deadline: November 28th, 2018

1 Introduction

In this assignment, you should leverage your knowledge to complete your prototype faculty website that you built in the first assignment. Of importance for this assignment is the full functionality of your website. Specifically, you will be designing and developing the back-end (or server-side) part of a web content management system for our faculties. This system should facilitate updating and maintaining a faculty members web page content without requiring them to have operational knowledge of HTML or JavaScript. If you are ITSW student, you must keep the same group as the first assignment. Note that similar submissions between any two groups will be considered as an academic integrity violation.

2 Server-side Programming, Database and HTML

The main focus of this assignment is on the back-end design and development of the website. You will write server-side code to communicate with your front-end HTML pages and also the database. You need to modify your HTML pages code to be able to get updates from your back-end. Your admin web pages needs to send their form contents to the server. The server needs to receive the information and store them in the database. Of course, you need to design your database and set it up on the server-side.

The content of different HTML pages is the same as previous assignment. But, you need to populate your DataBase through your admin pages. Then, the content get retrieved from your database through server-side code that you have written for viewing your HTML pages.

3 Authentication

One requirement of the assignment is to set up authentication for your admin pages. You don't want the content of our Faculty members get changed by others; so you need to authenticate them by their username and password. Design a simple username and password page, and write some server-side code to take care of their authentication. Note that the key issue is to give access to any admin pages and URLs for updating the database, if the user is authenticated. For doing so, you need to use sessions.

4 Report and External Resources

You can use any language, libraries, modules, etc. that exist in the universe :-). However, If you decide on choosing something that we have not covered in the class, you need to explain in your report how that library, module, or programming language helped you to achieve the goal of this assignment. Your report must include simple instruction on how your code can be run and which packages, languages need to be installed on a computer for running your application. Also, You should make sure to acknowledge and cite any piece of code that you borrow from other resources. This is very important for academic integrity. Have fun and enjoy this assignment.

5 Grading Scheme and Deliverable

You need to submit your code along with two-page report via Blackboard by November 28th. This assignment includes 12.5% of the total mark, and 1.5% Bonus mark to grab. The grading scheme is as follows:

- Report (1.5%)
- Demo Day Show Case (2%). On November 28th, you give a demo of your website to other students and faculty members. It is your day to be proud of what you have learn and done in this course, and show to others your skills :).
- Code (9%):
 - Functionality of all admin-pages, database, and dynamic HTML pages 7.5%
 - Authentication: 1.5%
- Bonus (1.5%): For Bonus, you have two options. But you you can just get bonus for one of these two options, not for both.
 - If you have missed some grades in your assignment 1 for something more than 1.5 points (e.g., admin pages, javascript form validation, etc). You can fix the issues in this assignment and you will get 1.5 pts bonus marks.
 - you can implement server-side input validation for all admin pages in your preferred language.

If you decided to do one of these bonus options, you need to mention in your report which one you have done. If you choose the the bonous 1, you need to provide more details on what was the initial issue with the assignment 1 and how you have addressed it.