

## SWE645 – Assignment 1

This assignment is comprised of two parts.

### Part1:

Your first part of this assignment is to create your own class homepage using a simple HTML file (e.g., index.html) and optionally an error page (e.g., error.html) - the error page could be used to render a message to the users if the main page is not available for any reason. Your homepage should contain at least an image (a picture) and a small paragraph with some content of your choice. Please use one of the W3.CSS Templates, Bootstrap templates, or any other CSS template of your choice to enhance the look and feel of your homepage.

[https://www.w3schools.com/w3css/w3css\\_templates.asp](https://www.w3schools.com/w3css/w3css_templates.asp)

<https://bootstrapmade.com/website-templates/>

### Part2:

The second part of the assignment involves creating a Student Survey form (HTML). The requirements of the Student Survey form are described below. Please add the link of your survey page to your website that you created in the Part1 section of this assignment.

#### Requirements for the Student Survey form:

- Text boxes for first name, last name, street address, city, state, zip, telephone number, e-mail, and date of survey, which are required fields.
- Checkboxes that allow prospective students to indicate what they liked most about the campus. The checkboxes should include the following: students, location, campus, atmosphere, dorm rooms, and sports.
- Radio buttons that allow the prospective students to indicate how they became interested in the university. Options should include the following: friends, television, Internet, and other.
- A dropdown list of options for the user to select the likelihood of him/her recommending this school to other prospective students. The three options of the dropdown list are: Very Likely, Likely, Unlikely.
- An additional text box called Raffle. The user will be asked to enter at least ten comma separated numbers ranging from 1 through 100 in the Raffle field. This information will be used to announce whether the student wins a free movie ticket.
- A text area for additional comments, and
- Submit and cancel buttons

### Website Hosting:

**Deploy** your home page linked with the survey page using Amazon S3 service's static web site hosting capabilities.

**Reference:** Setting up a static website on AWS S3

<http://docs.aws.amazon.com/AmazonS3/latest/dev/HostingWebsiteOnS3Setup.html>

**In addition, redeploy** your home page linked with survey page on a web server running on Amazon EC2 instance in AWS cloud.

**Reference:** How to Create an EC2 Instance in AWS?

- <https://www.youtube.com/watch?v=0Gz-PUnEUF0>

## **Submission**

The submission for this assignment should be through Canvas. Please provide URLs of your homepage as well as of the application deployed on EC2 in Readme file as part of your HW submission on the class canvas. I expect a zipped package containing the Readme file, source files, and any additional packages, scripts, or files that you used. The readme file should contain steps to create and configure S3 bucket and EC2 instance to deploy your web applications.

NOTE: A late assignment carries a 10% late penalty. Assignments are NOT accepted after being 2 weeks late. Make sure your name is on every programming artifact, so we know who it belongs to. For every source file, please include comments at the top of the file describing the purpose of this file. This only needs to be 1 or 2 sentences. Be sure to test access and functionality to your submission before the due date.

### **Grading:**

The following areas will be used in the basic grading of these projects:

- Does the system meet the functional requirements: 85 Points
- Does the assignment run without errors: 15 Points

### **Instant Point Deductions:**

I reserve the right to deduct points instantly for the following reasons:

- The source, or binary, files are not included in the package.
- The readme file is not included in the package.
- The program doesn't run due to errors in the code.
- I can't figure out how to use the assignment, and instructions are left out.