GINA CODY SCHOOL OF ENGINEERING AND COMPUTER SCIENCE
COURSE CODE: SOEN-287 (Section S)
COURSE TITLE: Web Programming
SEMESTER: Winter 2023

INSTRUCTOR:	Dr. Bonaventure Chidube Molokwu
ASSESSMENT TITLE:	Assignment 03
ASSESSMENT CODE:	SOEN-287-S-A03
DURATION/DEADLINE:	11.59pm, Tuesday, April 11

Question (*20 points*):
With regard to your initial tasks where you designed and implemented:

1. a (*static*) personal website (*Assignment 01*); and

2. an administrative website for managing the content of your personal website (*Assignment 02*).

Hence, your goal in *Assignment 03* shall be to transform your initial (*static*) personal website of *Assignment 01* into a (*dynamic*) personal website; and this will involve populating relevant data placeholders with textual data from the (`.txt`) files which were downloaded using your administrative website from *Assignment 02*.

In a bid to manage login sessions for users, you shall be working with the `sessionStorage` property of the `Window()` object in JavaScript - see usage guide/documentation via https://developer.mozilla.org/en-US/docs/Web/API/Window/sessionStorage. Moreover, *login usernames, login passwords*, and *dynamic* data/content should be stored as well as managed in local (*.txt*) files with the aid of JavaScript programming.

Furthermore, this task will be based on the concepts and knowledge of HTML, CSS, JavaScript, and PHP. To this end, kindly design each *.php* or *.html* webpage of your website as stated herein. Your redesigned (*dynamic*) personal website folder MUST be renamed to: **LastName_StudentNumber** (*e.g. Molokwu_12345678*). Also, the (web)pages of your website MUST be styled using either **Style-A** or **Style-B** layouts as defined in earlier Assignments.

Most of the following tasks herein will require you to create a 1-to-1 mapping from the data content, created/saved through your administrative website, to the respective XHTML tags on your personal website. In other words, in your redesigned personal website for this assignment, your are expected to read (via PHP) the content of relevant `.txt` files, which you had earlier created in *Assignment 02*, into respective XHTML tags implemented in your personal website of *Assignment 01*. To facilitate the PHP File Handling tasks herein; kindly (manually) *copy* or *move* the `.txt` files created from *Assignment 02* into your website folder for *Assignment 03*. Additionally, the 1-to-1 association/mapping of data content from `.txt` files to respective XHTML tags are defined as follows:

Home (*adminIndex.html* $\xrightarrow{copy\ textual\ (.txt)\ data}$ *index.php*), *2.0 points*:

(i) text(*Professional Statement*) $\longrightarrow$ `<div>`(*Professional Statement*)`</div>` – (*1.0 point*)

(ii) text(*Brief Biography*) $\longrightarrow$ `<div>`(*Brief Biography*)`</div>` – (*1.0 point*)

Resume (*adminResume.html* $\xrightarrow{copy\ textual\ (.txt)\ data}$ *resume.php*), *5.0 points*:

(i) text(*Educational Qualifications*) $\longrightarrow$ `<dl>`(*Educational Qualifications*)`</dl>` – (*1.0 point*)

(ii) text(*Skill Set*) $\longrightarrow$ `<dl>`(*Professional and Technical Skills*)`</dl>` – (*1.0 point*)

(iii) text(*Awards/Recognition*) $\longrightarrow$ `<ol>`(*Awards and Recognition*)`</ol>` – (*1.0 point*)

(iv) text(*Work Experience*) $\longrightarrow$ `<ol>`(*Work Experience*)`</ol>` – (*1.0 point*)

(v) text(*Referees*) $\longrightarrow$ `<anyTag>`(*Referees*)`</anyTag>` – (*1.0 point*)

Projects (*adminProjects.html* $\xrightarrow{copy\ textual\ (.txt)\ data}$ *projects.php*), *2.0 points*:

(i) text(*My Projects*) $\longrightarrow$ `<ol>`(*Projects*)`</ol>` – (*2.0 points*)

Contact (*contact.html*), *3.0 points*, on your personal website:

(i) Add a submit button, using the $<$input/ $>$ tag, which should be labeled "Submit" – (*1.0 point*).

(ii) A JavaScript function identified as: submitContactMsg. This function should be activated/triggered when a user/visitor clicks on the "Submit" button defined on this webpage. Also, this function should copy the contents of the *name*, *email*, *phone-number*, and *message* fields; and store them in one or more (*.txt*) file(s) on your local computer/PC – (*2.0 points*).

Social (*adminSocial.html* $\xrightarrow{copy\ textual\ (.txt)\ data}$ *social.php*), *3.0 points*:

(i) text(*Social Link 1*) $\longrightarrow$ href(*Anchor tag in image map*) – (*1.0 point*)

(ii) text(*Social Link 2*) $\longrightarrow$ href(*Anchor tag in image map*) – (*1.0 point*)

(iii) text(*Social Link 3*) $\longrightarrow$ href(*Anchor tag in image map*) – (*1.0point*)

Admin (*admin.html*), *5.0 points*, on your personal website:

(i) Rename the button created via the $<$input/ $>$ tag (in *Assignment 01*) such that it should be identified and labelled as: "Login".

(ii) A JavaScript function identified as: processLogin. This function should be activated/triggered when a user/visitor clicks on the "Login" button defined on this webpage. Also, this function should be capable of validating the user's login details. After validation for a user using the appropriate login particulars, the user should be redirected (*1.0 point*) to your administrative website which you have already implemented in *Assignment 02*. To this end, you will have to use JavaScript sessions storage/management to establish the following session keys for a valid user login, viz:

    (a) Username – (*1.0 point*)

    (b) Password – (*1.0 point*)

    (c) Login Time – (*1.0 point*)

    (d) Login User-Agent – (*1.0 point*)

Additionally, with reference to the PHP tasks herein, you may find the following guide on file (*read*) handling useful with regard to accomplishing your implementation goals. Thus, kindly refer to this guide for examples and/or explanations: https://www.php.net/manual/en/function.file-get-contents.php. Also, to install the *PHP Development Environment* on your machine/PC; kindly follow this link: https://www.apachefriends.org/index.html

Rules for Acceptable Submission

(1) Every valid submission MUST be submitted as a compressed directory/folder (*.zip*) file via Moodle^{TM}.

(2) You MUST use and maintain a consistent filenaming standard with respect to the constituent webpages of your website directory/folder. Note that you MUST rename all your website folders as instructed above, prior to upload and submission via Moodle^{TM}.

(3) All XHTML tags MUST be in lowercase standard. Avoid spelling and grammatical errors.

(4) Maintain a uniform background color throughout your webpage.

(5) Any form of advertisement whatsoever is unacceptable.

(6) Any type of pornographic or nude content whatsoever is unacceptable.

(7) Since a webpage cannot be dismembered; it MUST always have one (1) <head> section and one (1) <body> section in that order.

(8) No commercial/public webpage(s) or website(s) of any kind will be accepted. A score of zero (0) will be awarded if this rule is broken.

(9) This is strictly an individual project/task. Thus, each student's submission MUST be unique such that the content of your website and webpages MUST reflect and be your original work. Plagiarism of any form or kind will result in a score of zero (0).

(10) All the aforementioned rules are associated with *penalty points* when/where broken. Thus, those *penalty points* which have not been explicitly stated herein are subject to the instructor's discretion; and they will be reported to any defaulting student after grading, if/where necessary.

(11) Kindly review the course outline for the university's policies regarding Academic Integrity and Student Code of Conduct - https://www.concordia.ca/academics/undergraduate/calendar/current/17-10.html