



GINA CODY SCHOOL OF ENGINEERING AND COMPUTER SCIENCE
COURSE CODE: SOEN-287 (Section S)
COURSE TITLE: Web Programming
SEMESTER: Winter 2022

INSTRUCTOR:	Dr. Bonaventure Chidube Molokwu
ASSESSMENT TITLE:	Assignment 03
ASSESSMENT CODE:	SOEN-287-S-A03
DURATION/DEADLINE:	11.59pm, Tuesday, April 12

Question (20 points):

With regard to your initial tasks where you designed and implemented:

1. a (*static*) personal website for yourself (*Assignment 01*); and
2. an administrative website for managing the content of your personal website (*Assignment 02*).

In this regard, your goal is to transform your initial personal website (of *Assignment 01*) into a (*dynamic*) personal website via populating relevant data placeholders with textual data entered from your administrative website.

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 *.html* webpage of your websites as stated herein. Your personal-website and administrative-website folders MUST be renamed to: **LastName_StudentNumber** (e.g. *Molokwu_12345678*) and **admin_LastName_StudentNumber** (e.g. *admin_Molokwu_12345678*), respectively. Also, the (web)pages of your websites MUST be styled using either **Style-A** or **Style-B** layouts as defined in earlier Assignments.

Most of the following tasks will require you to create a 1-to-1 mapping from the data content populated in your administrative website to the respective XHTML tags on your personal website. In other words, on your personal website, you are expected to read (via JavaScript) the content of relevant *.txt* files, which you had earlier created in *Assignment 02*, onto respective XHTML tags defined/implemented on your personal website of *Assignment 01*. Thus, these associations and/or mappings are defined as follows:

JavaScript-based Task: 14.0 points

Home (*adminIndex.html* populate textual data *index.html*), 2.0 points:

- (i) `text(Professional Statement)` \longrightarrow `<div>(Professional Statement)` - (1.0 point)
- (ii) `text(Brief Biography)` \longrightarrow `<div>(Brief Biography)` - (1.0 point)

Resume (*adminResume.html* populate textual data *resume.html*), **3.0 points**:

- (i) text(*Educational Qualifications*) \longrightarrow <dl>(Educational Qualifications) - (1.0 point)
- (ii) text(*Skill Set*) \longrightarrow <dl>(Professional and Technical Skills) - (0.5 point)
- (iii) text(*Awards/Recognition*) \longrightarrow (Awards and Recognition) - (0.5 point)
- (iv) text(*Work Experience*) \longrightarrow (Work Experience) - (0.5 point)
- (v) text(*Referees*) \longrightarrow <anyTag>(Referees) - (0.5 point)

Projects (*adminProjects.html* populate textual data *projects.html*), **1.0 point**:

- (i) text(*My Projects*) \longrightarrow (Projects) - (1.0 point)

Contact (*contact.html*), **2.0 points**, on your personal website:

- (i) Add a submit button, using the <input/ > tag, which should be labeled *Submit* - (0.5 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 - (1.5 points).

Social (*adminSocial.html* populate textual data *social.html*), **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*), **3.0 points**, on your personal website:

- (i) Rename the button created via the <input/ > tag such that it should be identified 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 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 - (0.5 point)
 - (b) Password - (0.5 point)
 - (c) Login Time - (1.0 point)
 - (d) Login User-Agent - (1.0 point)

PHP-based Task: 6.0 points

With reference to your implementation of file handling in *Assignment 02* using JavaScript; your new PHP task will be to re-implement same goals of *Assignment 02* but using PHP for file handling. Kindly refer to this guide for examples and/or explanations: <https://www.php.net/manual/en/function.file-put-contents.php>. Also, to install the *PHP Development Environment* on your machine/PC; kindly follow this link: <https://www.apachefriends.org/index.html>

Furthermore, your PHP administrative-website folder **MUST** be renamed to: **admin_php_LastName_StudentNumber** (e.g. *admin_php_Molokwu_12345678*).

Rules for Acceptable Submission

- (1) Every valid submission **MUST** be submitted as a compressed directory/folder (.zip) file via [MoodleTM](#).
- (2) Validate each of your webpage via the [W3C Markup Validator](#); and ensure that all errors are fixed prior to submission on [MoodleTM](#). Each validation error is mapped to -1.0 point.
- (3) You **MUST** use and maintain a consistent filenames 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 [MoodleTM](#).
- (4) All XHTML tags **MUST** be in lowercase standard. Avoid spelling and grammatical errors.
- (5) Maintain a uniform background color throughout your webpage.
- (6) Any form of advertisement whatsoever is unacceptable.
- (7) Any type of pornographic or nude content whatsoever is unacceptable.
- (8) Since a webpage cannot be dismembered; it **MUST** always have one (1) <head> section and one (1) <body> section in that order.
- (9) 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.
- (10) 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).
- (11) 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.
- (12) 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>