

# The University of Technology, Jamaica

## School of Computing and Information Technology

Web Programming (CIT2011) 2019/20 – Semester 1

### Individual Assignment #2

**Due: Week of October 14th, 2019**

**Instructions:** Perform all of the requested tasks given below.

**Description:** You are required to design a website that allows teachers at the CP Ellingham High School to login and once authenticated, he/she is allowed to input a student's grades into a webpage. All teachers will use the same login details. However, he/she will enter details relevant to their students.

#### Criteria:

- Create a HTML page called **index.html**. There is to be a form on this web page with the following fields for entering login details for accessing the website: *username* and *password*.

#### Functionality: [45 marks]

- The correct username and password are hardcoded inside the html code and is used to authenticate the user at login. All teachers use the same login details. [5 marks]
- If the username and password that is entered by the user matches the system version the user is taken directly to the **reportcard.html** page on login. [5 marks]
- The **reportcard.html** page is to be designed as a form so that:
  - **Test #1, Test #2, and Final** grades are entered by the user. Grade must be from 0 – 100 percent. Display an error if grade is entered outside of the range. [5 marks]
  - The webpage determines the letter grade by averaging the grades for each subject and then using the grade scheme to determine the letter. [12 marks]
  - The user is required to enter all the data except Grade Scale and the Page Headings. These are hardcoded inside the html file. [4 marks]
- Buttons
  - Cancel – clears the data on the form. [2 marks]
  - Save – shows an alert that says 'Saving file for "Student Name – id#". [3 marks]
  - Email – should open an email client with the following data: [4 marks]

- Recipient – ie parent email address
- Cc – [info@cpe.edu.ag](mailto:info@cpe.edu.ag)
- Subject – “Report Card is ready”
- Body – “Please see attachment.” \*Note: there is no actual attachment.
- Exit – should disable all fields and buttons. The user has to log in to regain access. [5 marks]

**Design: [31 marks]**

- Use appropriate field types according to the data being accepted. [5 marks]
- The overall look and feel of the website must clean, simple, and user friendly. Make use of the Box Layout model. Forms – Neat (alignment, spacing layout, and user friendly, etc.), use of best practice principles for form elements (eg button/submit, input etc). [14 marks]
- All validation must be done via HTML tag attributes. All data is mandatory. [7 marks]
- Website must also be mobile friendly. [5 marks]

**Implementation: [17 marks]**

- Advisor field is a dropdown list with 5 teacher names. [3 marks]
- CSS3 – Use of class and id selectors, elements, attributes and values, and CCS3 styles (inline, internal, and external). [7 marks]
- JavaScript - At least three (3) user-defined functions and one (1) library function. [7 marks]

**Submission**

You are required to submit a zipped folder called **Assignment2+YOURID#** which will contain

- a) Storyboard and sitemap **[7 marks]**
- b) sub folders (CSS, JavaScript, html, images) with the finalized document

Image 1.

<b>REPORT CARD</b> <b>CP ELLINGHAM HIGH SCHOOL</b> 760 Cooper Street, Agawan, MA 00101, Phone: (555) 999-0001, Email: info@cpe.edu.ag				
Date	<input type="text" value="01/01/2019"/>	Student's Name	<input type="text" value="Steve Smith"/>	
Parent name	<input type="text" value="Jillian Smith"/>	ID#	<input type="text" value="123456"/>	
Parent's Email	<input type="text" value="jsmith@gmail.com"/>	Parent's Tele #	<input type="text" value="(555) 999-1234"/>	
Grade / Room	<input type="text" value="7-2C4"/>	Semester / year	<input type="text" value="'01 - 2018"/>	
School Days	<input type="text" value="65"/>	Days Present	<input type="text" value="55"/>	
Days Absent	<input type="text" value="10"/>	Advisor	<input type="text" value="Ms. Jane Doe"/>	

  

Subject	Test 1 %	Test 2 %	Finals %	Letter Grade
Math	80%	65%	53%	C+
English	56%	76%	55%	C+
Science	75%	90%	65%	B
History	90%	87%	80%	B+
Economics	93%	79%	45%	B
Literature	66%	67%	76%	C+
Music	75%	59%	80%	B
PE	55%	60%	90%	C+

  

Notes
Jane is a can be enrolled in extra lessons for the classes in which she received a letter grade below B.

GRADING SCALE		
A = 90% - 100%	B+ = 80% - 89%	B = 70% - 79%
C+ = 60% - 69%	C = 50% - 59%	D = 0% - 49%

  

Cancel

Save

Email

Exit