ICS2O CPT-Web+AppInventor+JavaScript

Due: June 18, 2018

## Introduction:

[Group of 2 registration.](https://docs.google.com/forms/d/e/1FAIpQLSdLS08teXhtHabwJlAka3F4f9AVN-r134QGZlPW4vgDUpyDRQ/viewform)

## Set Up:

* In google drive, create **CPT Submit\_lastnameFirstName** folder. Share this folder with me.
* Make a copy of this document and place it in your **CPT Submit\_lastnameFirstname** folder

## Part 1 - Multiple Choice Questions

* Create at least 10 multiple choice questions based on what you learned in this course. e
* There must be at least 2 question from each chapter.
* Each question must have 4 possible options (A through D)
* Document your questions in table below (add extra rows if necessary

|  |  |  |  |
| --- | --- | --- | --- |
| **Chapters**  (hardware/software & cloud computing, HTML,CSS, JavaScript programming) | **Question** | **Options**  (list all 4 options in a bullet list) | **Answer** |
| ..Hardware | Which of the following is an  input device? | 1. Fan 2. Keyboard 3. RAM 4. CPU | B |
| ..hardware | How many bits is 1 byte? | 1. Bits are bytes are the same 2. 1024 bits 3. 8 bits 4. 16 bits | C |
| .Software | Which is an operating system? | 1. Software that provides the platform for all other software and hardware to operate on a computer 2. Software that fixes problems and maintains the performance of a computer 3. Software used to organize, consume media files 4. Software dedicated to viewing/browsing the internet | A |
| ..Software | What is cloud computing? | 1. Not saving anything 2. Starting new every time 3. Saves in the computer 4. Saves on your account that can be used on another computer | D |
| App Inventor | What is the purpose of the blocks tab? | A)To design the app  B)To build code off of the interface of the app  C)To change the text to red  D)To see if all the code and design work | B |
| App Inventor | What is the purpose of the designer tab? | A)To design the look of the app  B)To check for spelling errors  C)To add blocks of code  D)To check if the app works | A |
| HTML | What does HTML stand for? | A)Hierchytext Made Loop  B)Hare Tune Market Lane  C)Hard Text Malware Lineup  D)Hypertext Markup Language | D |
| HTML | What is an HTML tag? | A)hidden keywords within a web page that define how your web browser must format and display the content  B)a tag that opens the browser to check your HTML code  C)blocks of code to make a variable true  D)links that check if you have any spelling errors | A |
| Javascript | What is the purpose of “console.log”? | A)To create while loops  B)Change the text to red  C)To display the code that is typed to see if it works  D)Work like an if or else statement | C |
| Javascript | What is the purpose of a loop? | A)Reset the code  B)Open a new tab  C)Make things repeat  D)Style the text | C |
| CSS | What does CSS stand for? | A)Coding Sheet Style  B)Console Start Sheet  C)Crazy Step Sister  D)Cascading Style Sheet | D |
| CSS | Which of the functions can CSS **NOT** do? | A)Change the colour of text  B)Make while loops  C)Change the size of the text  D)Change the font of text | B |

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## Part 2 - Question Web Pages

For each of the multiple choice question created in Part 1, you will create an html page to present the question in a mobile web browser. Space is limited so you will need to format each page so it can be clearly viewed on a smartphone screen or tablet with minimal unnecessary scrolling.

### Part 2 Instructions:

* For each multiple choice question created in Part 1, create an html page using Drive Notepad or your html editor of choice. Do not put all your questions on the same page, if you have 10 questions you will have 10 html pages.
* Name your questions q1.html, q2.html, q3.html, etc
* Place all your html files and supplemental files (.jpg, .css, etc) in your

**CPT Submit\_lastnameFirstname**

* Create an additional final html page called final.html that will appear if the user has scored more than 80%. (more details will be explained later) Place it into your **CPT Submit\_lastnameFirstname**

**(See part 3 for more details)**

* **Host a webpage: Will be done later!!**

**Fill up this table with the URL for each question and the final page,,**

|  |  |
| --- | --- |
| **Question #** | **Public URL** |
| 1 | [**https://stelizabeth.github.io/cpt-ChristianDsouza/Q1.html**](https://stelizabeth.github.io/cpt-ChristianDsouza/Q1.html) |
| 2 | [**https://stelizabeth.github.io/cpt-ChristianDsouza/Q2.html**](https://stelizabeth.github.io/cpt-ChristianDsouza/Q2.html) |
| 3 | [**https://stelizabeth.github.io/cpt-ChristianDsouza/Q3.html**](https://stelizabeth.github.io/cpt-ChristianDsouza/Q3.html) |
| 4 | [**https://stelizabeth.github.io/cpt-ChristianDsouza/Q4.html**](https://stelizabeth.github.io/cpt-ChristianDsouza/Q4.html) |
| 5 | [**https://stelizabeth.github.io/cpt-ChristianDsouza/Q5.html**](https://stelizabeth.github.io/cpt-ChristianDsouza/Q1.html) |
| 6 | [**https://stelizabeth.github.io/cpt-ChristianDsouza/Q6.html**](https://stelizabeth.github.io/cpt-ChristianDsouza/Q1.html) |
| 7 | <http://stelizabeth.github.io/cpt-BondRobert/Q7.html> |
| 8 | <https://stelizabeth.github.io/cpt-BondRobert/Q8.html> |
| 9 | <https://stelizabeth.github.io/cpt-BondRobert/Q9.html> |
| 10 | <https://stelizabeth.github.io/cpt-BondRobert/Q10.html> |
| 11 | <https://stelizabeth.github.io/cpt-BondRobert/Q11.html> |
| 12 | <https://stelizabeth.github.io/cpt-BondRobert/Q12.html> |
| final page | <https://stelizabeth.github.io/cpt-ChristianDsouza/congratulations.html> |
|  | **https://habhenin.github.io/trivial.html** |

**Part 3 - Final Page**

* This page will be include the following  
  Congratulation message for high score (you may include sound as well)

As a reward you can go to the second level which is an online trivia quiz. You can do this by creating a link to the online trivia quiz page. In this case you need to add an HTML page with JavaScript code for the online trivia quiz..

**Part 4 - HTML and JavaScript (Online Trivia Quiz)**

1. Choose a topic for your game. To keep it simple, stick to one topic only. You should pick a topic you are most familiar with to make question creation easy (i.e., sports, television, music, or movies, for example, or even more specific, such as The Raptors, Family Guy, Pearl Jam, or The Matrix). Same group will be assigned one topic, so decide on a topic, [Click here to register](https://docs.google.com/forms/d/e/1FAIpQLSfHlf00z344oVoFtt8viwQ7NDeOQDKrSDjTDUZoTNWz5dKH9Q/viewform). You will not be able to change your topic once approved..

2. Design at least 10 trivia questions on your topic. A trivia question is a question on a fact about your topic. They must have a definite answer of which others would be aware. Each question should have 3 possible (plausible!) answers, and 1 definite, correct answer.

A suitable format for a trivia question might be:

What is our school mascot?

a) dinosaur

b) bulldog

c) emu

d) warrior

3. you may want to begin with this [Example](https://docs.google.com/document/d/1jIZf1E_xZZxlk2ZL6gaMib054oMzjrneRilmjKUwaig/edit?usp=sharing) as a reference.

* it will show you how to format your questions, create a textarea, etc. (feel free to add anything you like)
* Add a background image related to the trivia quiz.
* Move the Javascript code to an external Javascript file called (trivia.js) and the html code in a file called (trivia.html)
* Add an output a simple graphic to the screen representing if the answer was correct (i.e., a check mark or a happy face) or incorrect (i.e., an X or a sad face)--be creative!
* Insert an appropriate sound for a correct answer and/or wrong answer.
* Keep track of how many answers the user has answered correctly and output this, along with a percentage of correct answers, at the end of the game.
* Insert an appropriate graphic or animation for a GOOD and BAD score
* Add the option to the user to redo the trivi.
* Add some CSS features (change border colours, scrollbars, etc)

## Part 5 - App Inventor

You will now use your html pages to build a functional quiz app in App Inventor.

### Instructions

* Download the attached ICS2O\_CPT\_template app and import it into your individual app inventor account.
* The **UI components** (Designer) are already set up, do NOT remove any components, however, you can modify the look of the components and design if you wish (i.e change background colour, button images, fonts)
* The **Blocks** to control the logic of the app are incomplete, it will be your responsibility to complete it so the app works.
  + All variables and events have comments to provide additional information to help you along, just click on the  to reveal the comment.
  + The blocks for the program are shown below. You are responsible for completing the block code in the identified numbered areas. Be sure to read the comments for the necessary hints.
* Once you have the quiz fully functioning with a **calculated score**, if the user got 80 % or more, reward the user by letting him/her play a bonus game. Do this by uploading the final html page that has a link to the **Trivia Game Quiz.**
* Export your application to your CPT Submit folder

### Template Blocks Overview

|  |  |
| --- | --- |
| **Block** | **Action** |
|  | To be completed |
|  | To be completed |
| Set the url of the final html page. Shown after the last question has been completed and the user has scored more than 80% | To be completed |
|  | None |
|  | To be completed |
|  | To be completed |
|  | None |
|  | To be completed |

## Watch this [Video](http://www.appinventor.org/content/ai2apps/intermediateApps/presidentsQuiz) (80 % of part 5 done in this video)

**Submission:**

* **Part 1,2, and 3……. due on Jan. 8**
* **Part 4………………. due on Jan. 12**
* **Part 5………………. Due on Jan. 17**
* **All Parts (CPT)....... due on Jan 20**

Will explain how to submit your CPT later

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## CPT Evaluation Rubric

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **Level 1** | **Level 2** | **Level 3** | **Level 4** | **Weight** |
| Multiple Choice Questions | Less than 10 questions. Some sections of the course not represented in questions. | Less than 10 questions . Each section of the course is represented. | Between 10 and 12 questions . Each section of the course is represented. | > 10 questions. Each section of the course is represented. | 10 |
| HTML Pages | Most HTML pages NOT formatted properly for viewing on a mobile device. A lot of scrolling required. | Most HTML pages formatted properly for viewing on a mobile device. Some scrolling required. | HTML of all pages formatted properly for viewing on a mobile device. Minimal scrolling required. Usage of lists, tables, to enhance visual appeal and layout. | HTML of all pages formatted properly for viewing on a mobile device. No scrolling required. Usage of images, css, lists, tables, to enhance visual appeal and layout. | 20 |
| Mobile Quiz App | Blocks code incompleted. User is unable to complete game, with numerous user interface or logic errors | Most blocks code completed. User is able to complete game, with some user interface or logic errors | Blocks code completed and quiz app functions as outlined without user interface or logic errors | Blocks code completed and quiz app functions as outlined. Application is enhanced to provide a more engaging user experience. | 30 |
| Trivia Online Quiz | JavaScript code incompleted. User is unable to complete Trivia Quiz, with numerous user interface or logic errors | Most JavaScript code completed. User is able to complete rivia Quiz, with some user interface or logic errors | JavaScript code completed and Trivia Quiz functions as outlined without user interface or logic errors | JavaScript code completed and Trivia Quiz functions as outlined. Application is enhanced to provide a more engaging user experience. | 10 |
| Design | Design charts does not communicate most parts of the application. | Design charts does communicate some parts of the application using some appropriate components and variables . | Design charts does communicate most parts of the application using the most appropriate components, variables, and conventions. | Design charts clearly communicate all parts of the application using appropriate components, variables, and conventions. | 10 |
|  |  |  |  | **Total** | **80** |