

ICS20 CPT-Web+AppInventor+JavaScript

Due: June 18, 2018

Introduction:

[Group of 2 registration.](#)

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.
- ☐ 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?	A) Fan B) Keyboard C) RAM D) CPU	B
..software	Which of the following is an OS.	A) Linex B) Internet explorer C) microsoft word D) Octagon	A
..HTML	What does this code do 	A) open a header B) start the body C) create a space D) Creates Forgive	C
..CSS	Where is the best place to use CSS	A)Internal B) Dont use it C) In the line D) External	D
..Hardware	Which of these belongs in your computer	A) Cheese B) motherboard C) Monitor D) Water	B
Cloud Computing	What is the max space allowed on Google Drive	A) Hexagon B) 15GB C) 1PB	D

		D) 5GB	
Javascript	What code do you use to create a multiple choice site	A)Square B)If/else C)For loop D)While Loop	B
Software	Which of the following is an anti virus	A)Norton B)Pb overdrive C)Triangle D)Chrome	A
Javascript	What is the most common code to crash from javascript	A)If else statement B)Console.log C)Infinite Loop D)Tags	C
CSS	How do you create external CSS	A)Create in same file B)Link with code in head C) E D)while loop	B

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-ChristopherHen/q1.html
2	https://stelizabeth.github.io/cpt-ChristopherHen/q2.html
3	https://stelizabeth.github.io/cpt-ChristopherHen/q3.html
4	https://stelizabeth.github.io/cpt-ChristopherHen/q4.html
5	https://stelizabeth.github.io/cpt-ChristopherHen/q5.html
6	https://stelizabeth.github.io/cpt-ChristopherHen/q6.html
final page	https://habhenin.github.io/final.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](#). 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](#) 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

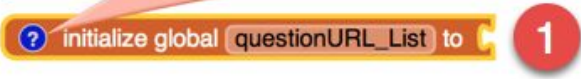
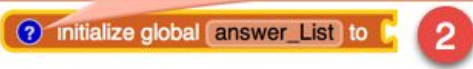
You will now use your html pages to build a functional quiz app in App Inventor.



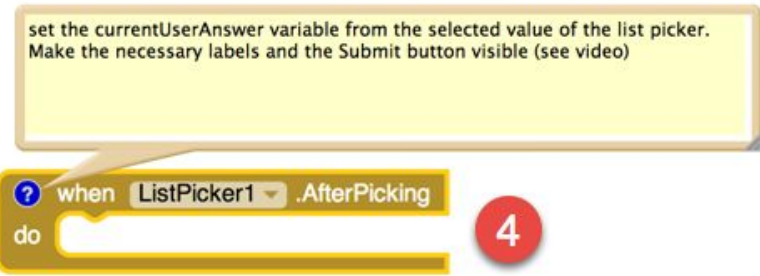
Instructions

- ☐ Download the attached [ICS20_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.

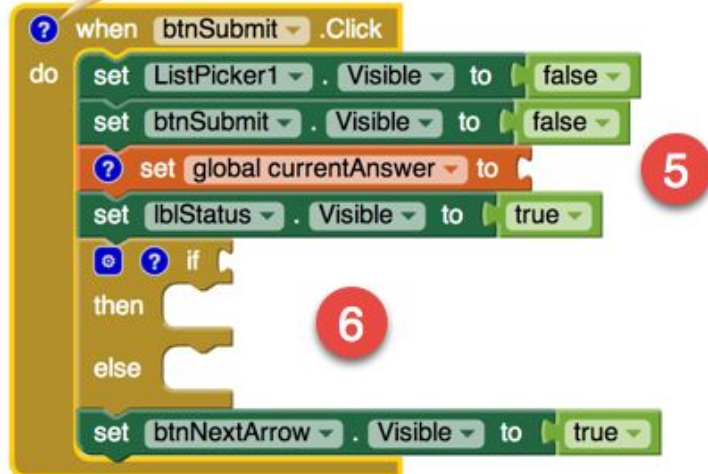
- ❑ All variables and events have comments to provide additional information to help you along, just click on the  to reveal the comment.
- ❑ The blocks for the program are shown below. You are responsible for completing the block code in the identified numbered areas. Be sure to read the comments for 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

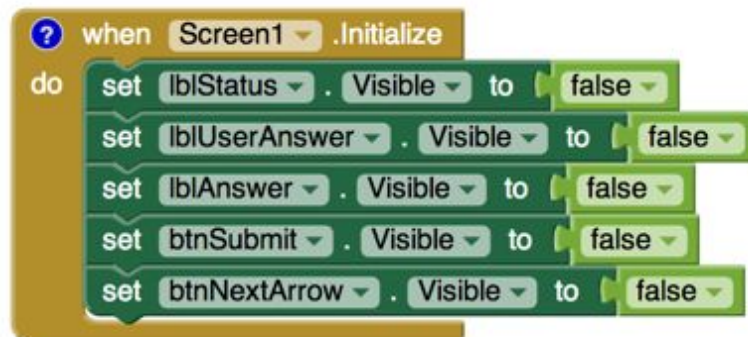
Block	Action
<p>A list of URLs , one for each question of your quiz</p> 	To be completed
<p>The list of answers. Each answer corresponds to the question from the questionURL_List. The answers will be either be A, B, C, or D</p> 	To be completed

 <p>set to the url of the final html page. shown after the last question has been completed</p> <p>3</p> <p>Set the url of the final html page. Shown after the last question has been completed and the user has scored more than 80%</p>	To be completed
 <p>4</p>	None
 <p>4</p>	To be completed

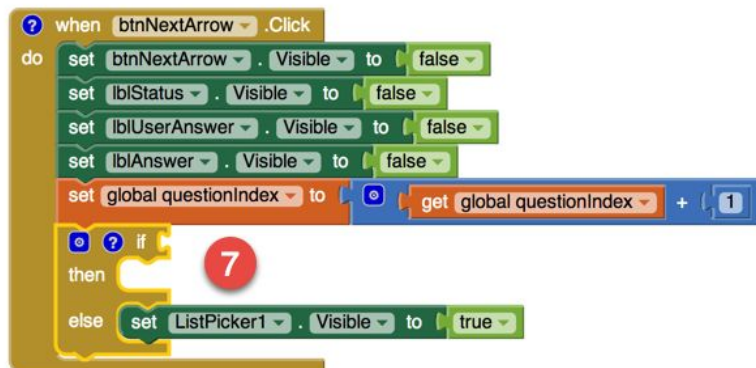
Hide the list picker.
 Hide the submit button.
 Set the current (actual) answer from the answer list.
 Show the status label.
 Update the score appropriately.
 Set the right status message.
 Show the next arrow button.



To be completed



None



To be completed

Watch this [Video](#) (80 % of part 5 done in this video)

Submission:

- | | |
|------------------------|-----------------|
| ● Part 1,2, and 3..... | due on June.5 |
| ● Part 4..... | due on June. 9 |
| ● Part 5..... | Due on June. 14 |
| ● All Parts (CPT)..... | due on June.19 |

Will explain how to submit your CPT later

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

