

DESCRIPTION

SUTDENT'S NAME:	Amarveer Singh
PROGRAM:	Web design
DATE:	2021-09-25
TEACHER'S NAME:	
COURSE:	Data Processing Technologies (TTD)
TYPE OF EXAM:	Final exam
DURATION:	3 hours
AUTHORIZED MATERIAL:	None

OTHER INSTRUCTIONS FROM THE TEACHER

The exam has **5** pages including the cover page. In accordance with the syllabus, the evaluation is worth **25 %** of the final grade.

Penalties imposed on a student accused of an attempt at plagiarism could include, but are not limited to, a grade of 0% for examination or for the entire course. The student could also be either put on probation, suspended and / or expelled from the program.

OTHER INFORMATION

Prepared by : **Jean-Guy Turgeon**

Revised by : **M.-J. Villeneuve**

Approved by : _____

Good luck !

Question 1

/3

Briefly explain what is an API.

API stands for Application programming Interface. It's a software intermediary intermediate between two computers or programs. For eg: mobile apps use APIs to talk to server and get information.

Question 2

/3

Briefly explain what is a third party API.

Third party APIs are APIs provided by third party companies to allow access to their system/application or service. for eg: twillio API for messaging, Aggora.io API for video call functionality

Question 3

/3

Give an example of a browser's API.

Web Audio API, it provides JS constructs for manipulating audio in the browser. for eg: playing an audio track, increasing volume or applying effects, etc.

Question 4

/3

Briefly explain what is a public API.

A Public API or an Open API is an API made publicly to software developers.

Question 5**What is an endpoint?****(Circle the letter corresponding to your answer)**

/3

- ☒ a) A computer system linked to a public database.
- b) The final line of an API script closing an external file containing data
- c) The URL of a file containing data.
- d) An AJAX request.
- e) None of the above.

Question 6

/3

(True or false, circle your answer)

In order to retrieve data from an external file using JavaScript, it isn't always mandatory to make an AJAX request.

TRUE

FALSE

Question 7

/3

Name the two languages most commonly used to make data available using an API.

PHP and NodeJS

Question 8

/3

What language is used in the following script example :

```
<container>
  <name>John</name>
  <age>42</age>
</container>
```

xml

Question 9

/3

What language is used in the following script example :

```
{
  name: "John",
  age: "42"
}
```

JSON

Question 10

/5

Supposing data are gathered in an external file named «mydata.json», write the jQuery instructions needed to display the name in a DIV containing #result as ID (not including the AJAX request).

Data :

```
{  
  name: "John",  
  age: "42"  
}
```

Assuming the result from ajax call is in variable "Data"

```
$("#result").text(Data.name);
```

Question 11

/10

Supposing data are gathered in an external file named «mydata.json», write the jQuery instructions needed to display the age in a DIV containing #result as ID (including the AJAX request).

Data :

```
{  
  users: [  
    nom: "John",  
    age: "42"  
  ]  
}
```

JSON syntax is wrong, it will generate an error.
correct syntax would be: (assuming storing result into variable "data")

```
let data = {  
  users: [  
    { nom: "john", age: '42'}  
  ]  
}
```


this way jquery instruction to display data would be:
\$("#result").text(data.users[0].age);

Question 12

/3

(Circle your answer)

In order to evaluate the number of items contained in an array named «container», how could we proceed?

- a) container[i]
- b) find(container).[i]
-  c) container.length
- d) \$.length("container")
- e) None of the above