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DESCRIPTION

SUTDENT'S NAME:	Gagan Kapila
PROGRAM:	**Web design**
DATE:	25 septmber 2021
TEACHER'S NAME:	Suthakhar Ponnambalam
COURSE:	**Data Processing Technologies (TTD)**
TYPE OF EXAM:	**Final exam**
DURATION:	**3 hours**
AUTHORIZED MATERIAL:	**None**

OTHER INSTRUCTIONS FROM THE TEACHER

The exam has **XX5** pages including the cover page. In accordance with the syllabus, the evaluation is worth **XX25** % 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 (Application Programming Interface) is not the database or even a server , it is a code that governs the access points for the server. Ex= Buying a movie ticket ,you went to movie site ; enter movie name, and cradit card info and print out tickets . But what actually is going on ? API's are collabrating behind the scenes with other application

Question 2
/3

Briefly explain what is a third party API.

Third Party API is basically provided by Third party example Facebook,Twitter or Google. It basically helps you to access their functionality via javascipt and implement in your site.

Question 3
/3

Give an example of a brower's API.

The common example is DOM(Document Object Model) API , which allows you to manipulate HTML and CSS ,Canvas and WebGl helps for drawing and manipulating graphics,WebRTC helps in audio and video APIs

Question 4

/3

Briefly explain what is a public API.

Public API (Open API) in simple meaning API which is availbale for anyone . This API provides developers with access to a proprietary software application or web-service.

Question 5

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

/3 a) A compouter 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 alway 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.

We can create an API in any computer language, the two most commonly used languages are following:

✶ PHP

✶ Python

➢ The most popular application programming interface created by PHP developers are: Open weather map, API football, IMDb, Cricket live scores, musicXmatch.

➢   The most popular API's created by python developers are : Yahoo finance, Temp mail, Spoonacular, IEX...etc,.

Question 8   /3

What language is used in the folowwing script example :

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

Language used: XML (eXtensible Markup Language)

Question 9   /3

What language is used in the folowwing script example :

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

On the basis of given example syntax **{ name: "John", age: "42" },** it can be said that the language used here should be most likely **Javascript,** as the given syntax resembles to the javascript objects syntax, and since JSON syntax is derived from JavaScript object notation, and no more details are specified in the question, there is a chance that the language used here can be **JSON** (within javascript) as well.

Question 10

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"
}
```

```html
  <!DOCTYPE html>
 <html>
 <head>
 <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
 <script>
$(document).ready(function(){
 $("button").click(function(){
 $.getJSON("demo_ajax_json.js", function(result){
 $("#result").append(result.firstName + " ");
 });
 });
 });
</script>
 </head>
 <body>
<button>Get JSON data</button>
<div id="result"></div>
</body>
 </html>
```

/10

Question 11

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"

]

}

```
<div id="result"></div>

<script>
$(document).ready(function(){

Data:
{
users: [ nom:
"John", age:
"42"
]
}
$("#result").html(Data.users.age);
});
</script>
```

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