

INT222 Quiz 7

Name: _Solution_

Instructions:

Complete all questions in the spaces provided (the number of lines provided does not indicate the length of the code required). This quiz is worth 5% of your final mark and you will have exactly 30 minutes to complete it.

Question 1 – AJAX (6 Marks):

Answer the following questions about the AJAX properties & methods discussed in class. There is only one correct answer per question

| | |
|--|---|
| <p>a) Which of the following is the JavaScript object that is used for working with AJAX in a modern browser?</p> <ul style="list-style-type: none"><input type="checkbox"/> XMLHttpRequest<input type="checkbox"/> HTTPDataRequest<input checked="" type="checkbox"/> XMLHttpRequest<input type="checkbox"/> NETDataRequest | <p>d) Which is the correct method used to turn a JSON formatted string into a workable object in JavaScript?</p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> JSON.parse()<input type="checkbox"/> createJSON()<input type="checkbox"/> JSON.create()<input type="checkbox"/> parseJSON() |
| <p>b) Which event is fired when the state of the AJAX request changes?</p> <ul style="list-style-type: none"><input type="checkbox"/> onupdatedstate<input checked="" type="checkbox"/> onreadystatechange<input type="checkbox"/> onstateupdatedready<input type="checkbox"/> onreadycomplete | <p>e) Which property is used to check the "state" of the AJAX response?</p> <ul style="list-style-type: none"><input type="checkbox"/> updatedState<input type="checkbox"/> mainState<input checked="" type="checkbox"/> readyState<input type="checkbox"/> statusState |
| <p>c) Which two methods are used to initiate an AJAX request?</p> <ul style="list-style-type: none"><input type="checkbox"/> get() & put()<input type="checkbox"/> create() & send()<input type="checkbox"/> init() & process()<input checked="" type="checkbox"/> open() & send() | <p>f) Which of the following comparison operations checks to see if the AJAX request has succeeded?</p> <ul style="list-style-type: none"><input type="checkbox"/> httpRequest(200) === true<input checked="" type="checkbox"/> httpRequest.status === 200<input type="checkbox"/> httpRequest.returned === 200<input type="checkbox"/> httpRequest("complete") === 200 |

Question 2 – JSON (6 Marks):

Assume you have a JavaScript object called **jsData** that has been parsed from a JSON string in the following format (right) representing employees. Write JavaScript code to:

- a) Get the **total age** of all **"Programmers"** and store it in the variable **"totalAge"**. You must access the **jsData** object for your solution (ie, you cannot hard code the values and you can assume that there could be **any number** of **"Programmers"**)

```
var totalAge = 0;

for(var i = 0; i < jsData.Programmers.length; i++){
    totalAge += jsData.Programmers[i].age;
}
```

- b) Store the **first** and **last name** (ie, **"Jerry Smith"**, **"Beth Smith"**, etc.) of all **"Designers"** in an array called **"designerNames"**. You must access the **jsData** object in your solution (ie, you cannot hard code the values and you can assume that there could be **any number** of **"Designers"**)

```
var designerNames = [];

for(var i = 0; i < jsData.Designers.length; i++){
    var fullName = jsData.Designers[i].firstName + " " +
        jsData.Designers[i].lastName;

    designerNames.push(fullName);
}
```

```
{
  "Programmers": [
    {
      "firstName": "Rick",
      "lastName": "Sanchez",
      "age": 60
    },
    {
      "firstName": "Morty",
      "lastName": "Smith",
      "age": 15
    }
  ],
  "Designers": [
    {
      "firstName": "Jerry",
      "lastName": "Smith",
      "age": 35
    },
    {
      "firstName": "Beth",
      "lastName": "Smith",
      "age": 34
    },
    {
      "firstName": "Summer",
      "lastName": "Smith",
      "age": 17
    }
  ]
}
```