Tema

Explicación código

Presenta

Jhon Gabriel Silva Tibaduiza

Docente

ALONSO GUEVARA PEREZ

Asignatura

Programación web
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Explicación código de los ejemplos

Index-definitions.html

Para este index se esta manejando boostrap que nos permite crear un diseño a los botones, para que el código funcione de manera correcta se debe dejar una sola función y comentar las demás funciones, en este caso se dejan sin comentar para evidenciar que están las funciones pero al momento de ejecutarlo se deben comentar los que no van a usar.

```html
<!DOCTYPE html>

<html>

<head>

        <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"
integrity="sha384-
Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous">

        <script type="js/JSAjax.js"></script>

        <script type="js/JSFunctios.js"></script>

        <script type="js/JSJSON.js"></script>

        <script type="js/vsJQuery.js"></script>

        <title>Funciones Nativas</title>

</head>

<body>

        <div class="container">

                <center><h1>Ejemplos Functions</h1></center>

                <button onclick="loadDoc()" class="btn btn-primary btn-lg btn-
block">Function Closures</button>

                <p id="AjaxXmlhttp"></p>

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<center><h1>Ejemplos Json</h1></center>

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<center><h1>Ejemplos Query</h1></center>

<button onclick="loadDoc()" class="btn btn-primary btn-lg btn-block">Function Query</button>

<p id="AjaxXmlhttp"></p>

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<center><h1>Ejemplos Ajax</h1></center>

<button onclick="loadDoc()" class="btn btn-primary btn-lg btn-block">Function Ajax</button>

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```

```html
            <button onclick="loadDoc()" class="btn btn-primary btn-lg btn-block">Function Ajax</button>

                <p id="AjaxXmlhttp"></p>

            <button onclick="loadDoc()" class="btn btn-primary btn-lg btn-block">Function Ajax</button>

                <p id="AjaxXmlhttp"></p>

        </div>

</body>

<script src="https://code.jquery.com/jquery-3.4.1.slim.min.js" integrity="sha384-J6qa4849blE2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js" integrity="sha384-wfSDF2E50Y2D1uUdj0O3uMBJnjuUD4Ih7YwaYd1iqfktj0Uod8GCExl3Og8ifwB6" crossorigin="anonymous"></script>

</html>
```

Js Ajax

```js
//Ajax Xmlhttp

function loadDoc() {
  var xhttp;
  if (window.XMLHttpRequest) {
   // code for modern browsers
   xhttp = new XMLHttpRequest();
  } else {
   // code for IE6, IE5
   xhttp = new ActiveXObject("Microsoft.XMLHTTP");
  }
```

```javascript
  xhttp.onreadystatechange = function() {

    if (this.readyState == 4 && this.status == 200) {

      document.getElementById("AjaxXmlhttp").innerHTML = this.responseText;

    }

  };

  xhttp.open("GET", "ajax_info.txt", true);

  xhttp.send();

}


//Ajax Request

function loadDoc2() {

  var xhttp = new XMLHttpRequest();

  xhttp.onreadystatechange = function() {

    if (this.readyState == 4 && this.status == 200) {

      document.getElementById("AjaxRequest").innerHTML = this.responseText;

    }

  };

  xhttp.open("GET", "demo_get2.asp?fname=Henry&lname=Ford", true);

  xhttp.send();

}


//Ajax Response

function loadDoc3(url, cFunction) {

  var xhttp;

  xhttp=new XMLHttpRequest();

  xhttp.onreadystatechange = function() {

    if (this.readyState == 4 && this.status == 200) {
```

```javascript
    cFunction(this);

  }

 };

 xhttp.open("GET", url, true);

 xhttp.send();

}

function myFunction(xhttp) {

 document.getElementById("AjaxResponse").innerHTML =

 xhttp.responseText;

}


//Ajax Xml File

function myFunction(xml) {

 var i;

 var xmlDoc = xml.responseXML;

 var table="<tr><th>Artist</th><th>Title</th></tr>";

 var x = xmlDoc.getElementsByTagName("CD");

 for (i = 0; i <x.length; i++) {

  table += "<tr><td>" +

  x[i].getElementsByTagName("ARTIST")[0].childNodes[0].nodeValue +

   "</td><td>" +

  x[i].getElementsByTagName("TITLE")[0].childNodes[0].nodeValue +

   "</td></tr>";

 }

 document.getElementById("AjaxXmlFile").innerHTML = table;

}
```

```javascript
//Ajax PHP

function showHint(str) {

  var xhttp;

  if (str.length == 0) {

    document.getElementById("AjaxPHP").innerHTML = "";

    return;

  }

  xhttp = new XMLHttpRequest();

  xhttp.onreadystatechange = function() {

    if (this.readyState == 4 && this.status == 200) {

      document.getElementById("AjaxPHP").innerHTML = this.responseText;

    }

  };

  xhttp.open("GET", "gethint.php?q="+str, true);

  xhttp.send();

}


//Ajax Database

function showCustomer(str) {

  var xhttp;

  if (str == "") {

    document.getElementById("txtHint").innerHTML = "";

    return;

  }

  xhttp = new XMLHttpRequest();

  xhttp.onreadystatechange = function() {

    if (this.readyState == 4 && this.status == 200) {
```

```
    document.getElementById("Database").innerHTML = this.responseText;

    }

  };

  xhttp.open("GET", "getcustomer.php?q="+str, true);

  xhttp.send();

}
```

Js functions

```
//FunctionDefinitions

var x = function (a, b) {return a * b};

document.getElementById("FunctionDefinitions").innerHTML = x(4, 3);


//FunctionParameters

function sumAll() {

  var i;

  var sum = 0;

  for(i = 0; i < arguments.length; i++) {

    sum += arguments[i];

  }

  return sum;

}

document.getElementById("FunctionParameters").innerHTML = sumAll(1, 123, 500, 115, 44, 88);


//FunctionInvocation

var myObject = {

  firstName:"Jhon",

  lastName: "Gabriel",
```

```javascript
  fullName: function() {

    return this;

  }

}

document.getElementById("FunctionInvocation").innerHTML = myObject.fullName();


//FunctionCall

var persona = {

  fullName: function(city, country) {

    return this.firstName + " " + this.lastName + "," + city + "," + country;

  }

}

var person1 = {

  firstName:"Jhon",

  lastName: "Gabriel"

}

var person2 = {

  firstName:"Mary",

  lastName: "Doe"

}

var x = person.fullName.call(person1, "Oslo", "Norway");

document.getElementById("FunctionCall").innerHTML = x;


//Function Apply

var persona = {

  fullName: function(city, country) {

    return this.firstName + " " + this.lastName + "," + city + "," + country;
```

```javascript
  }
}
var person1 = {
  firstName:"Jhon",
  lastName: "Gabriel"
}
var x = person.fullName.apply(person1, ["Oslo", "Norway"]);
document.getElementById("FunctionApply").innerHTML = x;


//Function Closures
function add() {
  var counter = 0;
  counter += 1;
  return counter;
}
function myFunction(){
  document.getElementById("FunctionClosures").innerHTML = add();
}
```

Js json

```javascript
//JSON Syntax
var myObj, x;
myObj = { name: "John", age: 30, city: "New York" };
myObj["name"] = "Gilbert";
document.getElementById("demo").innerHTML = myObj.name;


//JSON vs XML
{"employees":[
```

```
  { "firstName":"John", "lastName":"Doe" },

  { "firstName":"Anna", "lastName":"Smith" },

  { "firstName":"Peter", "lastName":"Jones" }

]}


//JSON Data Types

{

"employee":{ "name":"John", "age":30, "city":"New York" }

}


//JSON Parse

var text = '{"name":"John", "birth":"1986-12-14", "city":"New York"}';

var obj = JSON.parse(text);

obj.birth = new Date(obj.birth);

document.getElementById("demo").innerHTML = obj.name + ", " + obj.birth;


//JSON Stringify

var arr = [ "John", "Peter", "Sally", "Jane" ];

var myJSON = JSON.stringify(arr);

document.getElementById("demo").innerHTML = myJSON;


//JSON Objects

var myObj, x;

myObj = {"name":"John", "age":30, "car":null};

for (x in myObj) {

  document.getElementById("demo").innerHTML += myObj[x] + "<br>";

}
```

```
//JSON Arrays
myObj = {
  "name":"John",
  "age":30,
  "cars": [
    { "name":"Ford", "models":[ "Fiesta", "Focus", "Mustang" ] },
    { "name":"BMW", "models":[ "320", "X3", "X5" ] },
    { "name":"Fiat", "models":[ "500", "Panda" ] }
  ]
}


//JSON HTML
var obj, dbParam, xmlhttp, myObj, x, txt = "";
        obj = { table: "customers", limit: 20 };
        dbParam = JSON.stringify(obj);
        xmlhttp = new XMLHttpRequest();
        xmlhttp.onreadystatechange = function() {
          if (this.readyState == 4 && this.status == 200) {
            myObj = JSON.parse(this.responseText);
            txt += "<select>"
            for (x in myObj) {
              txt += "<option>" + myObj[x].name;
            }
            txt += "</select>"
            document.getElementById("demo").innerHTML = txt;
          }
```

```
        };

        xmlhttp.open("POST", "json_demo_db_post.php", true);

        xmlhttp.setRequestHeader("Content-type", "application/x-www-form-
urlencoded");

        xmlhttp.send("x=" + dbParam);
```

js query

```
//jQuery Selectors

var myElements = document.getElementsByTagName("p");

document.getElementById("demo").innerHTML = "The text in the first paragraph is: " +
myElements[0].innerHTML;


//jQuery HTML

var myElement = document.getElementById("01");

myElement.textContent = "Hello Sweden!";


//jQuery CSS

//<h2 id="01">Hello World!</h2>

//<h2 id="02">Hello Sweden!</h2>

//<h2 id="03">Hello Japan!</h2>

document.getElementById("02").style.display = "none";


//jQuery DOM

var element = document.getElementById("id01");

element.parentNode.removeChild(element);
```