**jQuery - AJAX**

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* **What is jQuery Ajax?**

**Ans: the jQuery library a full suit of AJAX capabilities. The functions and methods therein allow us to load data from the server without a browser page refresh.**

**Syntax:**

**jQuery.ajax(url, settings)**

**or**

**$.ajax(url, settings)**

**Where, A URL to which the request is sent.**

**Settings: a set of key and value pair that configure the Ajax request. All settings are optional.**

**Syntax:**

**$.ajax({**

**url: “filename. Php”,**

**type: “POST”,**

**data: string/ Array/ Object,**

**success: function(data){**

**//body of success.**

**}**

**});**

* **Some most important jQuery Ajax settings.**

1. **url: a string containing the URL, to which the request is sent. By default, its current page.**
2. **data: object / string / array, what type of data will you send to the server tell us data type. Object must be key and value pairs.**
3. **Method / type: the HTTP method to use for the request, “POST”, “GET”, “PUT”, by default GET.**
4. **timeout: set a timeout, a value 0 zero means there will be no timeout.**
5. **beforeSend (): before sending the request between process parts.**
6. **success: in success write a function when your request is success, inside in function you can write three arguments:**

* **data: data means what data is coming from server after success and this data is formatted according to pass your datatype.**
* **String: a string which is describing the status.**
* **jqXHR object:**

1. **datatype: the type of data that you are expecting back from the server.**

* **xml: it returns XML document.**
* **html: it returns HTML as plain text.**
* **script: evaluate the response as JavaScript and return it as plain text.**
* **json: Evaluate the response as JSON and returns a JavaScript object. (it converts json string as a JS object).**
* **jsonp: load in json a JSON block using JSONP.**
* **text: a plain text string.**
* **Some points:**
* **What is the use of this in jQuery?**

**Ans: this is used for current id, name, class etc.**

* **Example: GET.**

**$.ajax({**

**url: “data.php”,**

**method: “GET”,**

**success: function(data){**

**//response.**

**}**

**});**

* **Example: POST.**

**$.ajax({**

**url: “data.php”,**

**method: “POST”,**

**data: {“name”: ”jack”, “roll”:101},**

**success: function(data){**

**//response.**

**}**

**});**

* **Example: full.**

<script>

   $(documen).ready(function(){

      $("#btn").click(function(){

        $.ajax({

            url: "insert.php",

            method: "POST",

            data: {"name": "sonam", "roll": 101},

            success: function(data){

                //process the response data.

            }

        });

      });

   });

</script>

* **How to reset form data after saving the data base.**
* **For JavaScript use.**
* **document.getElementById("name").value=" ";**
* **document.getElementById("email").value=" ";**
* **for jQuery use.**
* **$("#table-form").trigger("reset");**
* **New way.**
* **$("#myform")[0].reset();**
* **How to extract input field value.**

**Syntax:**

**let variable\_name = $(“#id name”).val();**

**Ex:**

**let stuName = $("#nameid").val();**

* **How to send data in object form:**

**Syntax:**

**data: {key: value, key: value}**

**Ex:**

**data: {name:$("#name").val(), email:$("#email").val() }**

* **How to send data in JavaScript string.**

**Syntax:**

**JSON.stringify(data);**

* **How to target attribute of a tag.**

**let id = $(this).attr("data-sid");**

* **How to create custom attribute in HTML?**

**Syntax:**

**data-anyName**

**Ex:**

**data-id**

* **jQuery Load method (): The load () method loads data from a server and puts the returned data into the selected element.**

**Syntax:**

**load (“url”, data, callback);**

* **inside callback function: function(res, status, xhr): means server se result kya aaya?**
* **And status kya hai.**
* **Xhr kya hai?**

**Ex:**

  <button id="loadButton" type="button">LoadData</button>

    <div id="box"></div>

   <script>

       $(document).ready(function(){

            $("#loadButton").click(function(){

                $("#box").load("demos.html", "data", function(res, status, xhr){

                // console.log(res); //Lorem ipsum dolor sit amet, consectetur adipisicing elit. Ea delectus magnam consequuntur?

                // console.log(status); //success

                // console.log(xhr);  //{readyState: 4, getResponseHeader: ƒ, getAllResponseHeaders: ƒ, setRequestHeader: ƒ, overrideMimeType: ƒ, …}

                    if(status=="success") {

                        console.log("fie loaded");

                    }

                    if(status=="error"){

                        console.log("Error", xhr.status, xhr.statusText);

                    }

               });

            });

        });

   </script>

* **$.get (): The $.get() method requests data from the server with an HTTP GET request.**

**Syntax:**

**$,get(url, data, callback);**

* **$.post (): The $.post() method requests data from the server with an HTTP POST request.**

**Syntax:**

**$.post(url, data, callback);**