

JS AJAX CRUD for Fake API

We Need a Hero get these guys inline



Easier to Write in JQuery

```
let divs = document.getElementsByTagName("div");
for(let i=0;i<divs.length; i++){
    divs[i].style.display = "none";
}
```

Easier to Write in JQuery

```
let divs = document.getElementsByTagName("div");  
for(let i=0;i<divs.length; i++){  
    divs[i].style.display = "none";  
}
```

\$(“div”).hide() // in JQuery

Philosophy

1. Find Some HTML
2. Do Something With It

`$(this).hide()` - hides the current element.

`$("p").hide()` - hides all `<p>` elements.

`$(".test").hide()` - hides all elements with `class="test"`.

`$("#test").hide()` - hides the element with `id="test"`.

How to Add JQuery

```
<head>  
<script src="jquery-3.6.4.min.js"></script>  
</head>
```

Or Add CDN

```
<head>  
<script src="https://ajax.googleapis.com/ajax/libs  
/jquery/3.6.4/jquery.min.js"></script>  
</head>
```

The Document Ready Event

```
$(document).ready(function(){  
    // jQuery methods go here...  
});
```

Or

```
$(function(){  
    // jQuery methods go here...  
});
```

Example

```
$(document).ready(function(){  
    $("button").click(function(){  
        $("p").hide();  
    });  
});
```


Slide Down Example

```
<script  
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.  
1/jquery.min.js">
```

```
<script>
```

```
$(document).ready(function(){  
    $("#flip").click(function(){  
        $("#panel").slideDown("slow");  
    });  
});
```

```
</script>
```

```
<div id="flip">Click to slide down panel</div>
```

```
<div id="panel">Hello world!</div>
```

```
<script>
```

```
$(document).ready(function(){  
    $("#flip").click(function(){  
        $("#panel").slideDown("slow");  
    });  
});
```

```
</script>
```



Method Chaining

```
$("#p1").css("color", "red").slideUp(2000).slideDown(2000);
```

Each Effect returns the same object

Animations

```
$("#button").click(function(){  
    var div = $("#div");  
    div.animate({height: '300px', opacity: '0.4'}, "slow");  
    div.animate({width: '300px', opacity: '0.8'}, "slow");  
    div.animate({height: '100px', opacity: '0.4'}, "slow");  
    div.animate({width: '100px', opacity: '0.8'}, "slow");  
})
```

Selectors

`$("*")`

- Selects all elements

`$(this)`

- Selects the current HTML element

`$("p.intro")`

- Selects all `<p>` elements with `class="intro"`

`$("p:first")`

- Selects the first `<p>` element

`$("ul li:first")`

- Selects the first `` element of the first ``

`$("ul li:first-child")`

- Selects the first `` element of every ``

Selectors

`$("[href]")`

- Selects all elements with an href attribute

`$("a[target='_blank']")`

- Selects all <a> elements with a target attribute value equal to "_blank"

`$("a[target!='_blank']")`

- Selects all <a> elements with a target attribute value NOT equal to "_blank"

`$(":button")`

- Selects all <button> elements and <input> elements of type="button"

`$("tr:even")`

- Selects all even <tr> elements

`$("tr:odd")`

- Selects all odd <tr> elements

DOM Manipulation

```
$("#test").text() //getter
```

```
$("#test").html() //getter
```

```
$("#test2").html("<b>Hello world!</b>");//setter
```

```
$("#test1").text("Hello world!"); //setter
```

```
$("#test3").val("Dolly Duck"); //value of  
input element
```

Play with CSS Classes

`addClass()`

- - Adds one or more classes to the selected elements

`removeClass()`

- - Removes one or more classes from the selected elements

`toggleClass()`

- - Toggles between adding/removing classes from the selected elements

`css()`

- - Sets or returns the style attribute

Events

Mouse Events	Keyboard Events	Form Events	Document/Window Events
click	keypress	submit	load
dblclick	keydown	change	resize
mouseenter	keyup	focus	scroll
mouseleave		blur	unload

Event Binding

```
$("#p").click(function(){  
    // action goes here!!  
});
```

```
$("#p1").mouseenter(function(){  
    alert("You entered p1!");  
});
```

The on Method

```
$("#p").on("click", function(){  
    $(this).hide();  
});
```

Or

```
$("#p").on({  
    mouseenter: function(){  
        $(this).css("background-color", "lightgray");  
    },  
    mouseleave: function(){  
        $(this).css("background-color", "lightblue");  
    },  
});
```

Event Propagation

```
<html>
<body>
<div id="container">
  <ul id="list">
    <li><a href="http://domain1.com">Item #1</a></li>
    <li><a href="/local/path/1">Item #2</a></li>
  </ul>
</div>
</body>
</html>
```

```
$( "#list a" ).on( "click", function( event ) {
  event.preventDefault();
  console.log( $( this ).text() );
});
```

Consider what happens when we add a new anchor after having already bound the above listener:

A Click on hyper link will trigger the clicks of all ancestors (Bubbling)

<a>

<ul #list>

<div #container>

<body>

<html>

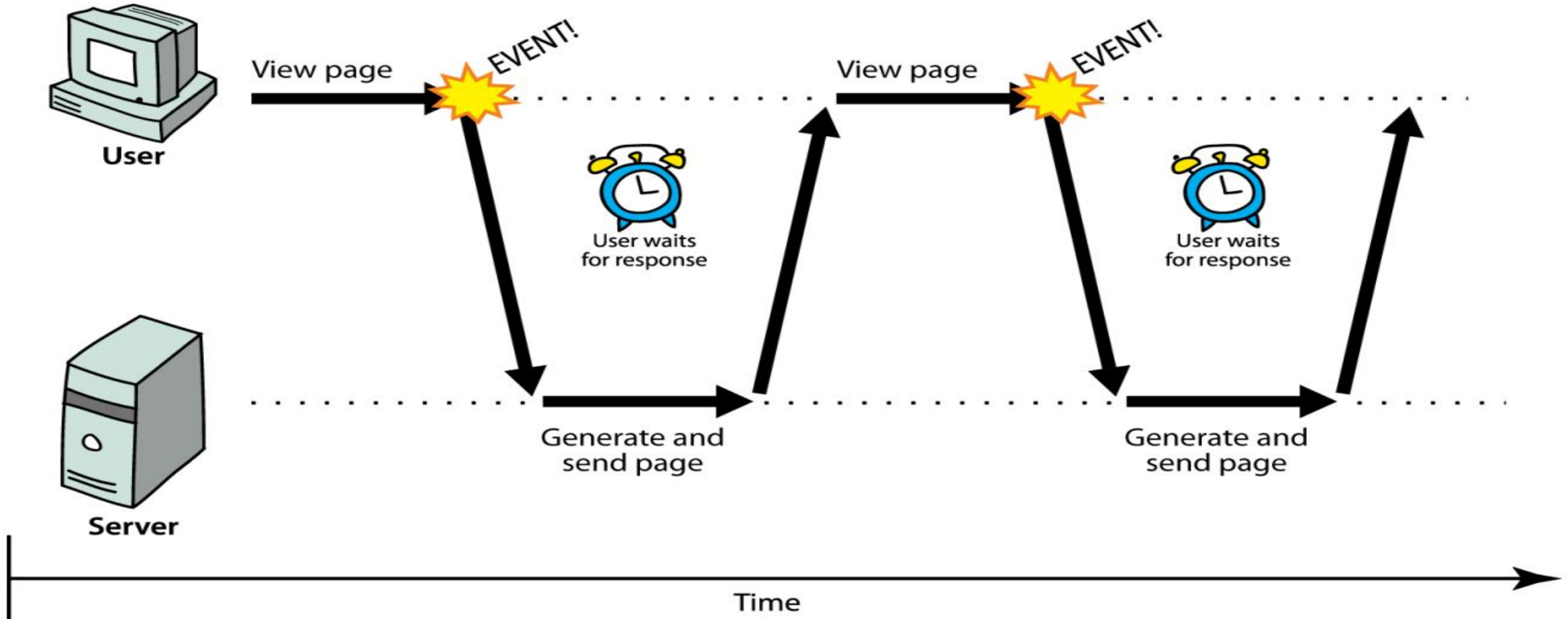
document root

Event Delegation

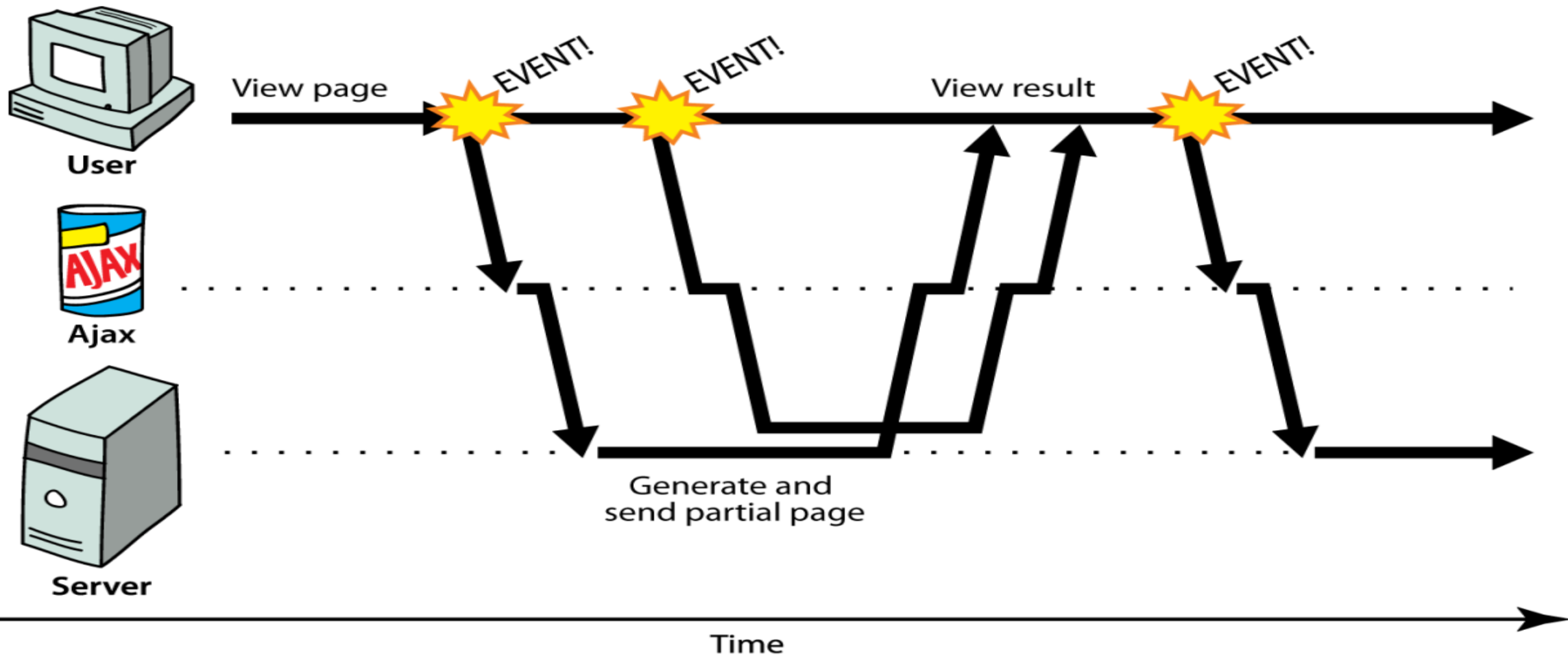
```
// Attach a delegated event handler
$( "#list" ).on( "click", "a", function( event ) {
    event.preventDefault();
    console.log( $( this ).text() );
});
```

AJAX

Synchronous Web Call (Wait)



Asynchronous (No Wait)



Ajax Flow

Make the call

- Gather information (possibly from HTML form)
- Set up the URL
- Open the connection
- Set a callback method
- Send the request

Handle the response (in callback method)

- When `request.readyState == 4` and `request.status == 200`
- Get the response in either text or xml
 - `request.responseText` or `request.responseXML`
- Process the response appropriately for viewing
- Get the objects on the page that will change
 - `document.getElementById` or `document.getElementByName`, etc.
- Make the changes

Ajax in JQuery

```
$.get( "ajax/test.html", function( data ) {  
    $( ".result" ).html( data );  
    alert( "Load was performed." );  
});
```

```
$.post( "ajax/test.html", postdata, function( data ) {  
    $( ".result" ).html( data );  
});
```

\$.ajax

```
$.ajax({  
    method: 'post',  
    url: 'example.com/abc',  
    data: {  
        user_name: name,  
    },  
    success: function (response) {  
        $('#success__para').html("You data will be saved");  
    }  
});
```

Code Explanations for JQuery CRUD

Source Code

<https://github.com/mua22/usman-recipes-api>

Page Out Put

<https://usman-recipes.herokuapp.com/>

Recipies API Client

Add Recipe

How to Make Cut-Out Sugar Cookies

Versatile sugar cookie dough is like edible modeling clay. It can be simply rolled into balls and baked, like snickerdoodles, but when you want to take it further and cut sugar cookie into shapes, like The Best Rolled Sugar Cookies, these tips will help your sugar cookie cut-outs turn out beautifully every time.

Edit delete

Thick Cut-Outs

A big batch of big thick sugar cookies. These are THE big soft sugar cookies you have been looking for. Frost them while warm and sprinkle with colored sugar.

Edit delete

Chicken Pot Pie IX

A delicious chicken pot pie made from scratch with carrots, peas, and celery for a comfort...

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Ginger-Chicken Stir Fry

Stir fries require very little cooking time and you can pretty much use any vegetables you like, but the star of this one is the ginger. This dish is quick and easy to make, but get all of your ingredients together (including mixing the sauce) before you start cooking because everything happens fast! Serve with rice, and garnish with sliced green onions.

Edit delete

Air Fryer Keto Chicken Wings

Edit delete

Single Page JQuery Based CRUD

Empty Div populated by server data later

```
<div id="recipes">
```

Loading ...

```
</div>
```

Loading Data From Server

```
function loadRecipes() {  
    $.ajax({  
        url: "https://usman-recipes.herokuapp.com/api/recipes",  
        method: "GET",  
        error: function (response) {  
            var recipes = $("#recipes");  
            recipes.html("An Error has occurred");  
        },  
        success: recipesResponseArrived,  
    });  
}
```

Response Arrived Call Back

```
function recipesResponseArrived(response) {
    console.log(response);
    var recipes = $("#recipes");
    recipes.empty();
    for (var i = 0; i < response.length; i++) {
        var rec = response[i];
        recipes.append(
            `

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```

A Single Record's Generated HTML

```
<div class="recipe" data-id="623175d812f61b00187c8933">  
  <h3>Thick Cut-Outs</h3>  
  <p>  
    <button class="btn btn-danger btn-sm float-right">delete</button>  
    <button class="btn btn-warning btn-sm float-right">Edit</button>  
    A big batch of big thick sugar cookies. These are THE big soft sugar cookies you have  
    been looking for. Frost them while warm and sprinkle with colored sugar.  
  </p>  
</div>
```


Get A Single Record

```
$.get("https://usman-recipes.herokuapp.com/api/recipes/" + id,  
function(  
    response  
) {  
    $("#updateId").val(response._id);  
    $("#updateTitle").val(response.title);  
    $("#updateBody").val(response.body);  
    $("#updateModal").modal("show");  
});
```

Add A record

```
var title = $("#title").val();  
var body = $("#body").val();  
$.ajax({  
  url: "https://usman-recipes.herokuapp.com/api/recipes",  
  method: "POST",  
  data: { title, body },  
  success: function(response) {  
    console.log(response);  
  }  
});
```

Delete A Record

```
$.ajax({  
  url: "https://usman-recipes.herokuapp.com/api/recipes/" +  
id,  
  method: "DELETE",  
  success: function() {  
    loadRecipes();  
  }  
});
```