jQuery Basic

Project for school Assembler

Project create from :

HTML :
- index.html

Cascading Style Sheets (CSS) :
- myStyle.css

JavaScript :
- hello.js
- jquery.js
- jquery-native.js
- native.js
- plugin.js
- plugin-call.js

Folder assets :
- 4 Images for plugin

Record of lessons learned:

- Deeper knowledge about HTML
- Deeper knowledge about CSS
- Deeper knowledge about library jQuery
- Deeper knowledge about JavaScript
- Knowledge about plugin in jQuery

List of tasks

Hello world

index.html

Time : 5 min

Difficulty level : 1

```html
<!--Hello world in jquery-->
    <h3>jQuery hello World</h3>
    <div id="hello" class="hello"></div>
```

- <h3> Title of Hello element
- <div> Empty div element will be used for jQuery and JavaScript native.

hello.js

Time : 5 min

Difficulty level : 1

```
$(document).ready(function(){
    $('.hello').css("width","5.5%");
    $('.hello').css("border","solid","1px","black");
    $('.hello').html("Hello World");
})
```

- When document html is ready handle element with class "hello"
- Change style .css()
- Display content "Hello World" in HTML document

Events in jQuery and JavaScript

index.html
Time : 5 min
Difficulty level : 1

```
<!--Events in jQuery anr js -->
<h3>Event's</h3>
<div class="groupEvents">
<div id="clickBox" class="clickBox ele ">Click Me</div>
<div id="hoverBox" class="hoverBox ele ">Hover off</div>
<div class="keyPress ele ">
    <input id="text" type="text" placeholder="Write text">
    <div id="key" class="key">
    </div>
    <button id="clear">clear</button>
</div>
<div id="mouse-pos" class="mousePosition ele ">Position
    <div id="tooltip" class="tooltip"></div>
    <div id="tooljs" class="tooljs"></div>
</div>
<div class="multi ele ">MultiEvent
    <button class="btn-1 btn ">btn-1</button>
    <button class="btn-2 btn">btn-2</button>
</div>
</div>
```

- \<h3> Title of Events elements
- \<div class="groupEvents"> Parent of all elements
- \<div id="clickBox" class= "clickBox ele "> First child box
- \<div id="hoverBox" class= "hoverBox ele "> Second child box
- \<div class= "keyPress ele "> Third child and Partent of input,div and button:

- ❖ Input text
- ❖ Div for display value from Input
- ❖ Button for clear Input and Div
- <div id="mouse-pos" class="mousePosition ele"> Fourth child and Parent of two div's:
  - ❖ <div id="tooltip" class="tooltip"> Child div for display mouse postions for jQuery
  - ❖ <div id="tooljs" class="tooljs"> Child div for display mouse postions for native js
- <div class="multi ele"> Fifth child and Parent of two buttons

1. Capture that the document is available and that JQuery has started successfully

native.js

Time : 5 min

Difficulty level : 1

```
window.onload = function(){}
```

jquery-native.js

Time : 5 min

Difficulty level : 1

```
$(document).ready(function(){}
```

2. Capture that an item has been clicked

index.html

Time : 5 min

Difficulty level : 1

```
<div id="clickBox" class="clickBox ele ">Click Me</div>
```

native.js

Time : 5 min

Difficulty level : 1

```
//CLICK
  const clickBox = document.getElementById("clickBox");
  clickBox.addEventListener('click',function(){
    alert("You click green box");
  })
```

jquery-native.js

Time : 5 min

Difficulty level : 1

```
//CLICK

$('.clickBox').click(function(){

    alert("You click green box");

})
```

3. **Capture that "hover" has been made on an item**

index.html
Time : 5 min
Difficulty level : 1

```
<div id="hoverBox" class="hoverBox ele ">Hover off</div>
```

native.js
Time : 5 min
Difficulty level : 1

```
    //HOVER

    const hover = document.getElementById("hoverBox");

    hover.addEventListener('mouseover',function(){

        this.style.background = "yellow";

    })

    hover.addEventListener('mouseout',function(){

        this.style.background = "darkcyan";

    })
```

jquery-native.js
Time : 10min
Difficulty level : 1

```
//HOVER

$('.hoverBox').hover(function(){

    $(this).css("background-color","yellow");

    $(this).text("Hover on");

},function(){

    $(this).css("background-color","darkcyan");

    $(this).text("Hover off");

})
```

4. Capture when the user has pressed a key and get the code associated with that key

index.html
Time : 5 min
Difficulty level : 1

```html
<div class="keyPress ele ">
    <input id="text" type="text" placeholder="Write text">
    <div id="key" class="key">
    </div>
    <button id="clear">clear</button>
</div>
```

native.js
Time : 15 min
Difficulty level : 1

```javascript
// KEYPRESS
const keypress = document.getElementById("text");
const show = document.getElementById("key");
keypress.addEventListener("keypress",function(e){
    show.innerHTML = e.key;
})
// Clear button
const clear = document.getElementById("clear");
clear.addEventListener("click",function(){
    show.innerHTML = "";
    keypress.value = "";
})
```

jquery-native.js
Time : 10 min
Difficulty level : 1

```javascript
// KEYPRESS
$('#text').keypress(function(e){
    $('.key').text(e.key);
})
// Clear button
$('#clear').click(function(){
    $('#text').val('');
    $('.key').text('');
});
```

5. **Capture when the user moves the mouse and get the current position of it**

index.html
Time : 5 min
Difficulty level : 1

```html
<div id="mouse-pos" class="mousePosition ele ">Position
    <div id="tooltip" class="tooltip"></div>
    <div id="tooljs" class="tooljs"></div>
</div>
```

native.js
Time : 25 min
Difficulty level : 1

```javascript
//Mouse position
  const mouse = document.getElementById("mouse-pos");
  const tooltip = document.getElementById("tooljs");
  mouse.addEventListener('mousemove', function(e){
      tooltip.innerHTML = ("Position X:"+e.pageX +"Position Y:"+
e.pageY);
  })
  mouse.addEventListener('mouseout', function(){
      tooltip.innerHTML = "";
  })
```

jquery-native.js
Time : 25 min
Difficulty level : 1

```javascript
//Mouse position
$('.mousePosition').mouseenter(function(){
  $('.mousePosition').mousemove(function(e){
      $('.tooltip').show();
      $('.tooltip').css({
          "left" : e.pageX + 15,
          "top" : e.pageY + 15
      });
      $('.tooltip').text("pageX: " + e.pageX + "pageY: "+ e.pageY);
  })
})
```

```
$('.mousePosition').mouseleave(function(){

    $('.tooltip').text('');
    $('.tooltip').hide();


})
```

6. **(Event+)Capture when an event has been carried out on several elements without the need to associate the event to each element separately.**

index.html
Time : 5 min
Difficulty level : 1
```
<div class="multi ele ">MultiEvent
    <button class="btn-1 btn ">btn-1</button>
    <button class="btn-2 btn">btn-2</button>
</div>
```

native.js
Time : 10 min
Difficulty level : 1
```
//Event +
const buttons = document.getElementsByClassName("btn");
buttons[0].addEventListener('click',function(){
    alert(this.innerText);
})
buttons[1].addEventListener('click',function(){
    alert(this.innerText);
})
```

jquery-native.js
Time : 10 min
Difficulty level : 1
```
//Event +
$('.btn-1, .btn-2').on('click', function(e){
if(e.currentTarget.className == "btn-1"){
    alert("you click btn-1");
}
if(e.currentTarget.className == "btn-2"){
```

```
    alert("you click btn-2");
}
})
```

Functions + Selectors

index.html
Time : 1h
Difficulty level : 1

```html
<!--Functions + Selectors in jQuery and js-->
    <h3>Functions + Selectors</h3>
    <div id="groupElements" class="groupElements">
        <div class="boxes">
          <div id="box-select" class="box2 box-select">
              <div><input id="text2" type="text" placeholder="Write
text and press enter">
              </div>
              <label>Select element</label>
              <select id="selector">
              <option>spring</option>
              <option>winter</option>
              <option>summer</option>
              <option>autumn</option>
              </select>
              <div><a id="a-ele">click 'a' element</a></div>
          </div>
          <div id="infoChild" class="infoChild box2"><h3
id="title">Collection Of Children's</h3></div>
          <div id="box" class="box2">Click for get item by id</div>
          <div id="hidden" class="hidden-ele box2 hidden">Hidden
element</div>
        </div>
        <button id="hide" class="hide">Hide</button>
        <button id="show" class="show">Show</button>
        <button id="hide-mol"class="hide-mol">Hide Molten</button>
        <button id="show-mol" class="show-mol">Show Molten</button>
```

```
          <button id="iterate-ele"
class="iterate-ele">Iterate-ele</button>
        <button id="get-parent" class="get-parent">Get-parent</button>
        <button id="hidden-element"class="hidden-element">Show hidden
element</button>
        <button id="remove-element"class="remove-element">Remove
elements</button>
    </div>
```

- <h3> Title of function elements
- <div id="groupElements" class="groupElements"> Parent of elements (container)
- <div class="boxes"> Container for div's boxes
- <div id="box-select" class="box2 box-select"> First box with input, selector and a tag
- <div id="infoChild" class="box2 infoChild">Second box for display child element's
- <div id="box" class="box2 ">Third box for click and get element id
- <div id="hidden" class="hidden-ele box2 hidden">Fourth hidden box
- 8 buttons, each of them have a different function

1. Hide a certain item

index.html
Time : 5 min
Difficulty level : 1
```
<button id="hide" class="hide">Hide</button>
```

native.js
Time : 5 min
Difficulty level : 1
```
// hide
   const hide = document.getElementById("hide");
   const box  = document.getElementById('box');
   hide.addEventListener('click', function(){
       box.style.display = "none";
   })
```

jquery-native.js
Time : 5 min
Difficulty level : 1

```
// hide
$('.hide').click(function(){
    $('#box').hide();
})
```

2. Show a hidden item

index.html
Time : 5 min
Difficulty level : 1

```
<button id="show" class="show">Show</button>
```

native.js
Time : 5 min
Difficulty level : 1

```
//show
    const showEle = document.getElementById("show");
    showEle.addEventListener('click', function(){
        box.style.display = "";
    })
```

jquery-native.js
Time : 5 min
Difficulty level : 1

```
//show
$('.show').click(function(){
    $('#box').show();
})
```

3. Show an element animatedly with a molten effect

index.html
Time : 5 min
Difficulty level : 1

```
<button id="show-mol" class="show-mol">Show Molten</button>
```

native.js

Time : 5 min

Difficulty level : 1

```javascript
//show molten
  const sMolten = document.getElementById("show-mol");
  sMolten.addEventListener('click',function(){
      box.classList.add('sho');
      box.classList.remove('hid');
  })
```

jquery-native.js

Time : 5 min

Difficulty level : 1

```javascript
//show molten
$('.show-mol').click(function(){
    $('#box').show('slow');
})
```

4. **Hide an element in an animated way with a molten effect**

index.html

Time : 5 min

Difficulty level : 1

```html
<button id="hide-mol"class="hide-mol">Hide Molten</button>
```

native.js

Time : 10 min

Difficulty level : 1

```javascript
//hide molten
  const hMolten = document.getElementById("hide-mol");
  hMolten.addEventListener('click',function(){
      box.classList.add('hid');
      box.classList.remove('sho');
  })
```

jquery-native.js

Time : 5 min

Difficulty level : 1

```javascript
//hide molten
$('.hide-mol').click(function(){
    $('#box').hide('slow');
})
```

5. Iterate a collection of elements and apply a change of style on them

index.html
Time : 5 min
Difficulty level : 1

```html
<button id="iterate-ele" class="iterate-ele">Iterate-ele</button>
```

native.js
Time : 25 min
Difficulty level : 1

```javascript
//function for change color
    function randomColor() {
        const deg = Math.random() * 360;
        return `hsl(${deg}, 60%, 50%)`;
    }
    //function iterate elements div
    const ibtn = document.getElementById('iterate-ele');
    ibtn.addEventListener('click',function(){
        const elements = document.getElementsByClassName('ele');
        for(var i = 0; i< elements.length; i++){
            const color = randomColor();
            elements[i].style["background-color"] = color;


        }
    })
```

jquery-native.js
Time : 25 min
Difficulty level : 1

```javascript
//function for change color
function randomColor() {
    const deg = Math.random() * 360;
    return `hsl(${deg}, 60%, 50%)`;
}
//function iterate elements div
$('.iterate-ele').click(function(){
    $('.groupEvents').children('div').each(function(i,obj){
        const color = randomColor();
```

```
        $(obj).css("background-color",color);
})
})
```

6. Get the parent element of a certain element

index.html
Time : 5 min
Difficulty level : 1

```
<button id="get-parent" class="get-parent">Get-parent</button>
```

native.js
Time :15 min
Difficulty level : 1

```
//get parent element
    const partentBtn = document.getElementById('get-parent');
    partentBtn.addEventListener('click',function(){
        const color = randomColor();
        this.parentNode.style["background-color"] = color;
    })
```

jquery-native.js
Time : 15 min
Difficulty level : 1

```
//get parent element
$('.get-parent').click(function(){
    const color = randomColor();
    $(this).parent( ".groupElements" ).css( "background",color);
})
```

7. Get the collection of children of a certain element (if that element has children)

index.html
Time : 15 min
Difficulty level : 1

```
<div id="groupElements" class="groupElements">
```

```
<button id="hide" class="hide">Hide</button>
        <button id="show" class="show">Show</button>
        <button id="hide-mol"class="hide-mol">Hide Molten</button>
```

```
        <button id="show-mol" class="show-mol">Show Molten</button>
        <button id="iterate-ele"
class="iterate-ele">Iterate-ele</button>
        <button id="get-parent" class="get-parent">Get-parent</button>
        <button id="hidden-element"class="hidden-element">Show hidden
element</button>
        <button id="remove-element"class="remove-element">Remove
elements</button>
```

native.js
Time : 15 min
Difficulty level : 1

```
//Get the collection of children of a certain element (if that element
has children)
   const parent = document.getElementById('groupElements');
   const childrens = parent.querySelectorAll('button');
   const dischild = document.getElementById('infoChild');
   for(var i = 0 ; i < childrens.length; i++){
       let p = document.createElement('p');
       let node = document.createTextNode(childrens[i].className);
       p.appendChild(node);
       dischild.appendChild(p);
   }
```

jquery-native.js
Time : 15 min
Difficulty level : 1

```
//Get the collection of children of a certain element (if that element
has children)
$('.groupElements').children().each(function(index,obj){
   $('.infoChild').append('<p>'+obj.className+'</p>');
})
```

8. **Get all the elements of a certain class (we refer to css class)**

index.html
Time : 5 min
Difficulty level : 1

All boxes with class box2

native.js

Time : 10 min

Difficulty level : 1

```javascript
// get all elements by class name
    const classbox = document.getElementsByClassName('box2');
    for(var i = 0; i < classbox.length; i++){
        classbox[i].style.border = "3px solid black";


    }
```

jquery-native.js

Time : 5 min

Difficulty level : 1

```javascript
// get all elements by class name
$('.box2').css("border",'solid','1px','black');
```

9. Get an item by id

index.html

Time : 5 min

Difficulty level : 1

```html
<div id="box" class="box2">Click for get item by id</div>
```

native.js

Time : 5 min

Difficulty level : 1

```javascript
// get item by id
    const boxEle = document.getElementById('box');
    boxEle.addEventListener('click',function(){
        alert(this);
    })
```

jquery-native.js

Time : 5 min

Difficulty level : 1

```javascript
// get item by id
$('#box').click(function(){
    alert(this);
});
```

10. **Obtain all the elements of a certain class and which are also hidden (the fact that they are hidden will not be obtained through a css class)**

index.html
Time : 5 min
Difficulty level : 1

```html
<div id="hidden" class="hidden-ele box2 hidden">Hidden element</div>
```

native.js
Time : 15 min
Difficulty level : 1

```javascript
//find hidden elements
const btnHidden = document.getElementById('hidden-element');
const hiddenEle = document.getElementById('hidden');
btnHidden.addEventListener('click',function(){
    hiddenEle.style.display = "inline";
})
```

jquery-native.js
Time : 10 min
Difficulty level : 1

```javascript
//find hidden elements
$('.hidden-element').click(function(){
    var ele = $("body").find(":hidden");
    $(ele[0]).css("display","inline");
})
```

11. **Get those options of a select element that are selected (attribute selected)**

index.html
Time : 5 min
Difficulty level : 1

```html
<label>Select element</label>
            <select id="selector">
            <option>spring</option>
            <option>winter</option>
```

```
            <option>summer</option>
            <option>autumn</option>
            </select>
```

native.js

Time : 15 min

Difficulty level : 1

```javascript
//Get those options of a select element that are selected (attribute
selected)
    const selector = document.getElementById('selector');
    selector.addEventListener('change',function(){
        const optSele = selector.options[selector.selectedIndex].value;
        alert(optSele);
    })
```

jquery-native.js

Time : 15 min

Difficulty level : 1

```javascript
//Get those options of a select element that are selected (attribute
selected)
$('#selector').change(function(){
    var element = $(this).find('option:selected');
    alert(element.val());
})
```

12. **Change the href attribute of the first <a> element (Create an <a> element to test this case)**

index.html

Time : 5 min

Difficulty level : 1

```html
<div><a id="a-ele">click 'a' element</a></div>
```

native.js

Time : 5 min

Difficulty level : 1

```javascript
//Change the href attribute of the first <a> element (Create an <a>
element to test this case)
    const aEle = document.getElementById('a-ele');
```

```
aEle.setAttribute('href','https://www.w3schools.com');
```

jquery-native.js
Time : 5 min
Difficulty level : 1
```
//Change the href attribute of the first <a> element (Create an <a>
element to test this case)
$('#a-ele').attr("href","https://www.w3schools.com");
```

13. **Create a new <p> element with text inside the dom of your page**

index.html
Time : 5 min
Difficulty level : 1
```
<div id="box-select" class="box2 box-select"></div>
```

native.js
Time : 10 min
Difficulty level : 1
```
//Create a new <p> element with text inside the dom of your page
    const pParent = document.getElementById('box-select');
    let newP = document.createElement('p');
    let textP = document.createTextNode("New 'p' element");
    newP.appendChild(textP);
    pParent.appendChild(newP);
```

jquery-native.js
Time : 5 min
Difficulty level : 1
```
//Create a new <p> element with text inside the dom of your page
$('.box-select').append("<p>New 'p' element</p>");
```

14. **Show an alert with the value of the first <input> of the page (Create an <input> element to test this case)**

index.html
Time : 10 min
Difficulty level : 1
```
<div><input id="text2" type="text" placeholder="Write text and press
enter">
```

native.js

Time : 10 min

Difficulty level : 1

```
//Show an alert with the value of the first <input> of the page (Create
an <input> element to test this case)
    const invalu = document.getElementById('text2');
    invalu.addEventListener('change',function(){
        alert(this.value);
    })
```

jquery-native.js

Time : 10 min

Difficulty level : 1

```
//Show an alert with the value of the first <input> of the page (Create
an <input> element to test this case)
$('#text2').change(function(){
    alert($('#text2').val());
})
```

15. Remove all items from a specific selector

index.html

Time : 10 min

Difficulty level : 1

```
<div id="infoChild" class="infoChild box2"><h3 id="title">Collection Of
Children's</h3></div>
```

native.js

Time : 10 min

Difficulty level : 1

```
//Remove all items from a specific selector
    const remBtn = document.getElementById('remove-element');
    const infchild = document.getElementById('infoChild');
    let test =  infchild.querySelectorAll("p");
    remBtn.addEventListener('click',function(){
        for(var i= 0 ; i < test.length; i++){
            infchild.removeChild(test[i]);
        }
    })
```

jquery-native.js

Time : 10 min

Difficulty level : 1

```
//Remove all items from a specific selector
$('.remove-element').click(function(){
    $('.infoChild').children('p').remove();


})
```

16. **Animate an item after 2 seconds from the initial page load**

index.html

Time : 10 min

Difficulty level : 1

```html
<!--Hello world in jquery and js-->
    <h3>jQuery hello World</h3>
    <div id="hello" class="hello"></div>
```

native.js

Time : 10 min

Difficulty level : 1

```js
//Animate an item after 2 seconds from the initial page load
    const anim = document.getElementById('hello');
    setTimeout(function(){
        anim.classList.add('animate');
    },2000);
```

jquery-native.js

Time : 10 min

Difficulty level : 1

```js
//Animate an item after 2 seconds from the initial page load
setTimeout(function(){
    $('.hello').animate({marginLeft: "+=700"});
},2000);
```

Plugin jQuery

index.html

Time : 5 min

Difficulty level : 1

```html
<!-- PLUGIN jquery -->
<h1>Plugin</h1>
<div class="plugin"></div>
```

plugin-call.js

Time : 2H

Difficulty level : 3

```javascript
const div = $('.plugin');
   $(div).personalCard({
       name: 'Scooby',
       surname: 'Doo',
       side: 'left',
       img: "assets/scooby.jpg",
       info: "anime",
       git: "assets/gitLogo.png",
       link: "assets/linked.png",
       twiter: "assets/twitter.jpg"
    });
```

- I create variable div and assigned my HTML element.
- I call my variable with function personalCard with arguments.

plugin.js

Time : 6 H

Difficulty level : 3

```javascript
(function($){
   $.fn.personalCard = function(config){
   if(config.side === "left"){
      let container = document.createElement('div');
      let cont = document.createElement('div');
      let logo = document.createElement('div');
      $(cont).addClass('cont');
      $(logo).addClass('logo');
      $(container).addClass(config.side).css('justify-content',
'flex-start');
```

```javascript
        let img = $(container).append('<div><img class="person-img"
src='+config.img+' width="200"></div>');
        let name = $(cont).append('<p class="person-name">'+config.name+'
'+config.surname+'</p>');
        let info = $(cont).append('<div
class="person-info"><p>'+config.info+'</p></div>');
        let git = $(logo).append('<a href="https://github.com/"><img
class="git-logo" src='+config.git+' width="50"></a>');
        let link = $(logo).append('<a href="#"><img class="linked"
src='+config.link+' width="50"></a>');
        let twiter = $(logo).append('<a href="#"><img class="twitter"
src='+config.twiter+' width="50"></a>');
        $(cont).append(logo);
        $(container).append(cont);
        $('.plugin').append(container);


    }
    else if(config.side === "right"){
        let container = document.createElement('div');
        let con = document.createElement('div');
        let cont = document.createElement('div');
        let logo = document.createElement('div');
        $(cont).addClass('cont');
        $(logo).addClass('logo');
        $(container).addClass(config.side).css('justify-content',
'flex-end');;
        let name = $(cont).append('<p
class="person-name">'+config.name+' '+config.surname+'</p>');
        let info = $(cont).append('<div
class="person-info"><p>'+config.info+'</p></div>');
        let git = $(logo).append('<a href="https://github.com/"><img
class="git-logo" src='+config.git+' width="50"></a>');
        let link = $(logo).append('<a href="#"><img class="linked"
src='+config.link+' width="50"></a>');
        let twiter = $(logo).append('<a href="#"><img class="twitter"
src='+config.twiter+' width="50"></a>');
        let img = $(con).append('<img class="person-img"
src='+config.img+' width="200">');
        $(con).css("float", "right");
        $(cont).append(logo);
```

```javascript
        $(container).append(cont);
        $(container).append(con);


        $('.plugin').append(container);


    }


    else{
        let container = document.createElement('div');
        let cont = document.createElement('div');
        let logo = document.createElement('div');
        $(cont).addClass('cont');
        $(logo).addClass('logo');
        $(container).addClass("default").css('justify-content',
'flex-start');
        let img = $(container).append('<div><img class="person-img"
src='+config.img+' width="200"></div>');
        let name = $(cont).append('<p
class="person-name">'+config.name+' '+config.surname+'</p>');
        let info = $(cont).append('<div
class="person-info"><p>'+config.info+'</p></div>');
        let git = $(logo).append('<a href="https://github.com/"><img
class="git-logo" src='+config.git+' width="50"></a>');
        let link = $(logo).append('<a href="#"><img class="linked"
src='+config.link+' width="50"></a>');
        let twiter = $(logo).append('<a href="#"><img class="twitter"
src='+config.twiter+' width="50"></a>');
        $(cont).append(logo);
        $(container).append(cont);
        $('.plugin').append(container);
    }




    }


}(jQuery));
```

- When document is ready i create function personalCard with parametr config
- I use condition if and I check what parameter is inside of our call config.side
- Depend of config.side I create dynamic content and I display in document HTML