Week 11 jQuery

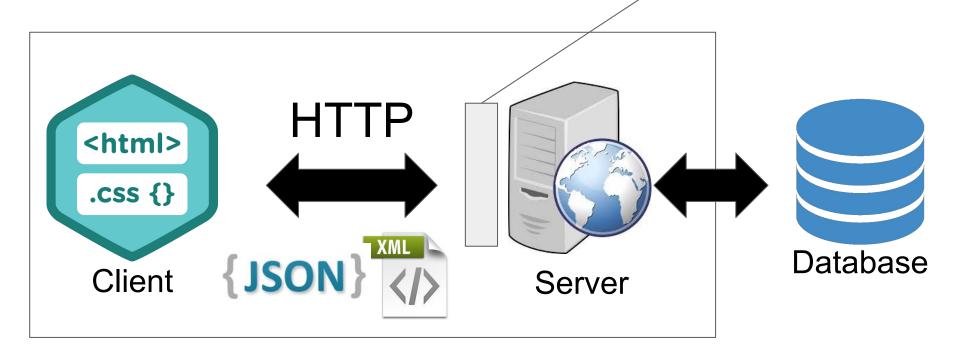
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Web Application Programming
Pusan National University
Hyung-Gyu Ryoo, Hyemi Jeong

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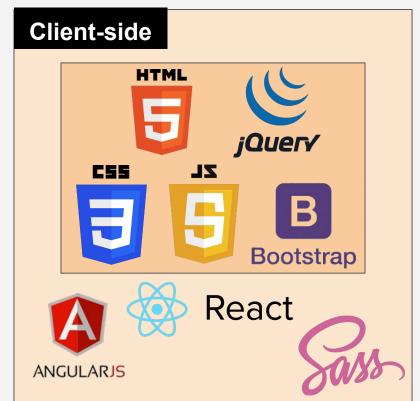
- Introduction
- Assignment-5 Review
- JQuery Basic
- JQuery Practice

Big Picture of Web Technology

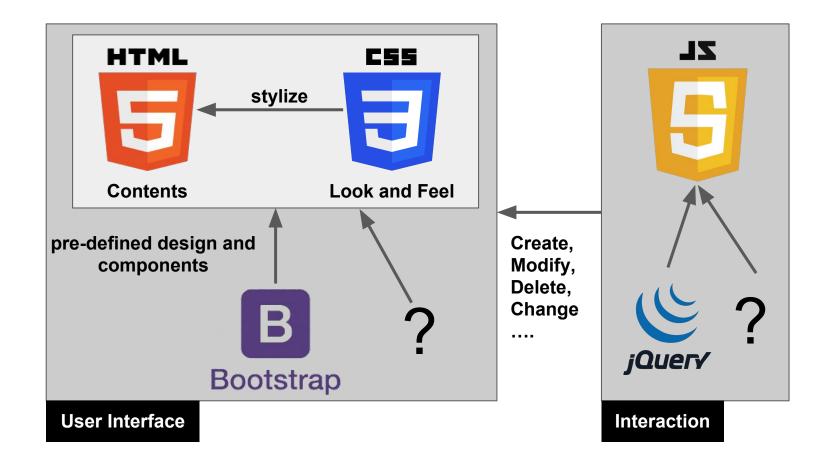
Server side language or framework

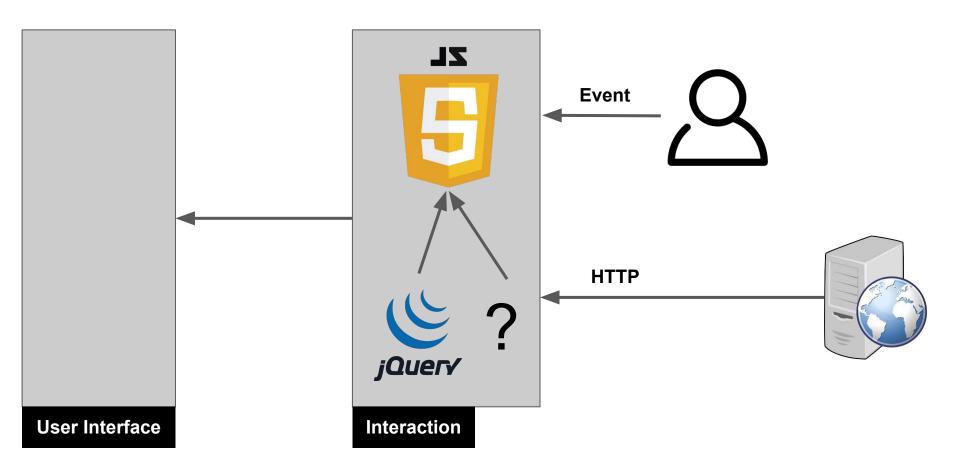


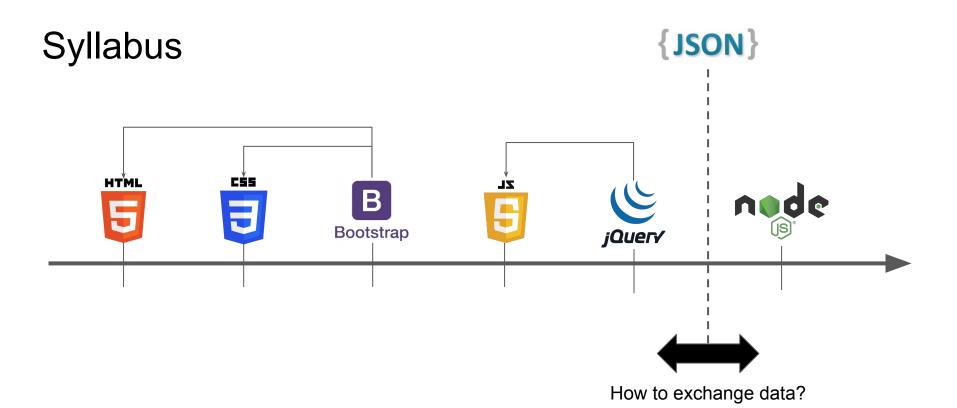
Web Technology







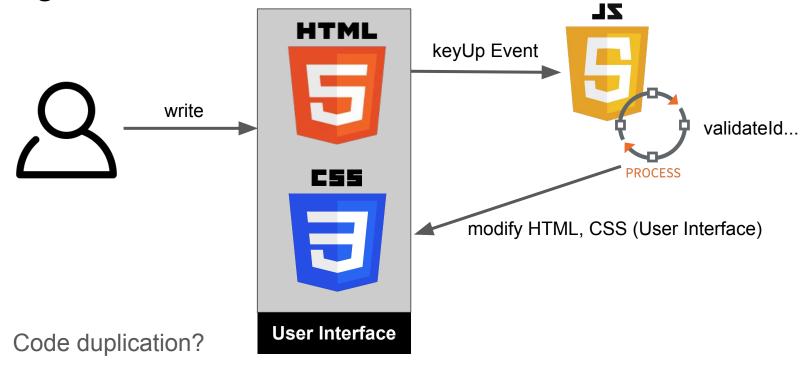




Assignment 5

- ID
 - Check duplication: id should not be duplicated with a item of mock_ids array
 - Check lowercase : id must be lowercase
 - Check length of id: id must be of length 5 to 20
 - To implement *validateId(id)* function, instructions are given in the code
- Password
 - Check length of password : password must be of length 8 to 30
- Email
 - Email must be a valid email.
- Message
 - Same implementation with previous lecture

Assignment 5 - Discussion



Efficient structure?

jQuery?

- jQuery is a JavaScript Library.
- jQuery greatly simplifies JavaScript programming.
- jQuery is easy to learn.



- Basic syntax is : \$(selector).action()
 - A \$ sign to define/access jQuery
 - A (selector) to "query (or find)" HTML elements
 - A jQuery action() to be performed on the element(s)

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

jQuery Get Started

- There are several ways to start using jQuery on your web site. You can:
 - Download the jQuery library from jQuery.com
 - Include jQuery from a CDN, like Google

```
    Downloading ¡Query
```

you can download jQuery from jQuery.com. </head>

jQuery CDN

 If you don't want to download and host jQuery yourself, you can include it from a CDN (Content Delivery Network).

<head>

<script src="jquery-3.2.1.min.js"></script>

```
<head>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js">
</script>
</head>
```

Javascript vs jQuery

- Hide an element with id "textbox"
 - Javascript
 - document.getElementById("textbox").style.display = "none";
 - jQuery
 - \$("#textbox").hide();
- Create a <h1> tag with "my text"
 - Javascript
 - var h1 = document.createElement("h1");
 h1.innerHTML = "my text";
 document.getElementByTagName("body")[0].appendChild(h1);
 - jQuery
 - \$("body").append(\$("<h1/>").html("my text");

jQuery 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

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

jQuery Effects

- Use for give "effects" to elements
 - o change shape, color, or animate elements

name	description	
hide()	make element disappear	
show()	make element appear	
slideUp()	make element disappear from bottom to top of element	
fadeIn()	make element appear slowly	
delay()	delayed action during setted period	

Target HTML Element using jQuery

- Let's make all of your button elements hide when you click it.
- Add this code inside your document ready function:
- Hint: \$("button").hide()
- See 2.jquery_hide.html

Practice - Target HTML Element using jQuery

- Let the panel disappear when you click the upper button
- Try to compare between JQuery and Javascript version of previous practice.
- Hint : getElementByID

Practice - Target Elements by Class using jQuery

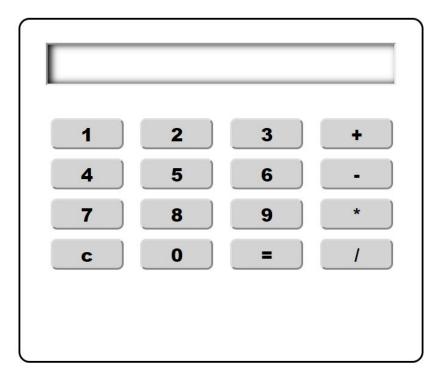
- Use jQuery's .addClass() function to add the classes for style
- \$(".selected").addClass("larger");

Target Elements by ID using jQuery

Practice - Handling Event and Effect by jQuery

- How about applying several effects at once?
- Let the panel disappear using slideUp during "800"ms and show up during "800"ms after "800"ms when you click the button at the upper.
- Hint : slideUp, delay, fadeIn

Practice - Re-implement Calculator



NEXT?

- Main keyword : Data
 - XML, JSON
 - o Visualization, Data handling

