CSC309 Programming on the Web

week 7: jquery, ajax

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review

- * so far:
 - front-end
 - · structure & semantic, appearance, behavior
 - many design tips
 - back-end
 - databases
 - structured & semi-structured data
 - interacting with backend
 - http, rest, node, express
- this week:
 - using jquery/ajax for the interaction

iguery/ajax 7-2

review

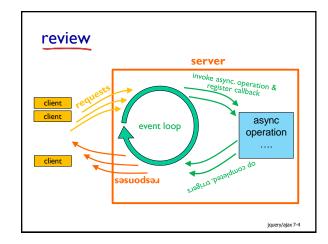
- http (underlying protocol for client/server interaction) GET /allWords.html HTTP/1.1 Host: www.project.org HTTP1.1 200 Ok Content-Type: text/html https://example.com/html
- rest (architectural styling/mindset)

www.project.org/allWords

* node (asynchronous and event driven)

fs.readFile("some.txt", readCompletedCallback);
//do other tasks ...
function readCompletdCallback(error, dataBuffer) {
 response.writeHead(200, {'Content-Type': 'text/plain'});
 response.end('<html>Hello</html>);

jquery/ajax 7-3



* routings in lab 6: app.get(/mame', getName); app.post(//ange', add/message); app.get(//messages', getMessages); app.get(//messages', g

```
iquery

a js library for

traversing and manipulating dom

event handling

head>
head>
ctide>jquery example</tide>
script type = 'text/javascript''
src = "https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js">
script type = 'text/javascript''
s(function()(document.write("Hello World!"); ));
s/script>
head>
hody>
sp>this is dummy
s/body>
</html>
```

```
$(selector).action()
                                            jquery selector
     dom selector
                                       $(document).ready(function(){...});
 window.onload = function(){...}
                                       $(function(){ ... });
 cf slide 4.14
 getElementsByTagName("p")
                                       $("p")
 getElementByld("123")
                                       $("#123")
css selector (slides 3.4, 3.8, 3.9)
                                       $("p, div")...
p, div {...}
                                      $("div p")...
div p {...}
                                      $("div > p")...
div > p {...}
                                      $(".welcome")...
.welcome {...}
                                       $("type")...
[type] {...}
                                      $("a[target='_blank']")...
a[target="_blank"]
                                                                jquery/ajax 7-7
```

```
traverse
                                            $("div").children("p")...
$("p").parent("div")...
                                            $("div").children("p").first()...
$("p").parents("div")...
                                            $("div").children("p").last()...
$("p").parentsUntil("div")...
                                            $("div p:nth-child(2)")...
                                            $("div").find("p")...
$("div").siblings("p")...
$("div").next("p")...
                                            $("div").prev("p")...
$("div").nextAll("p")...
                                             $("div").prevAll("p")...
$("div").nextUntil("p")...
                                            $("div").prevUntil("p")...
                                            $("p").eq(2)...
$("p:nth-of-type(3)")...
                                            $("p").first()...
                                            $("p").last()...
$("p").filter(".welcome")...
$("p").not(".welcome")...
                                                                        iquery/ajax 7-8
```

```
iquery/ajax

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
<button type="button" onclick="loadDoc()">Request data</button>
| will change after click
<script> function loadDoc()

$.get("demo_get.asp", function(data, status){
    if (status == "success") {
        {"#demo"}.replaceWith(data);
        }
    });

}
</script>

* get syntax:
    $.get(url,callback);

/guery/ajax?-12
```