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

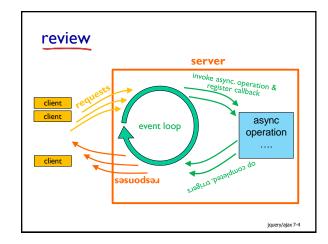
- http (underlying protocol for client/server interaction) GET /allWords.html HTTP/1.1 Host: www.project.org HTTP1.1 200 Ok Content-Type: text/html https://example.com/html
- rest (architectural styling/mindset)

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(/addmsg, add/mssage); app.get(/messages', getMessage); app.get(/messages', getMessage); app.get(/messages', getMessage); app.get(/messages', getMessage); } invoke async. operation & register callback finction getName(req, res) { if (req.session.name) { return res.json((name: req.session.name)); } else { return res.json((name: ')); } }

iquery a js library for traversing and manipulating dom event handling head cutel-jquery example</titelseript type = "text/javascript" src = "https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"> script type = "text/javascript" script type = "text/javascript"> s(function()(document.write("Hello World!");)); //script> //script>

```
$(selector).event(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 \ge p \{...\}
                                       $(".welcome")...
.welcome \{...\}
                                       $("type")...
$("a[target='_blank']")...
[type] {...}
a[target="_blank"]
                                                                 jquery/ajax 7-7
```

```
traverse
                                                   $("div").children("p")...
$("p").parent("div")...
                                                   $("div").children("p").first()...
$("div").children("p").last()...
$("div p:nth-child(2)")...
$("p").parents("div")...
$("p").parentsUntil("div")...
                                                   $("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").first()...
$("p:nth-of-type(3)")...
                                                   $("p").last()...
$("p").filter(".welcome")...
$("p").not(".welcome")...
                                                                                  iquery/ajax 7-8
```