Walk-through 002

CREATE AND RUN A WEB SERVER

Objectives:

- create a web-server
- have it listen to a given port
- receive a request
- send back data

Steps:

- 1. create another web module / new folder under your project and call it '01_helloServer'
- 2. For better code hints, you'll need to configure Node to appear in your external libraries open 'preferences' and in the 'Node.js and NPM' tab, click the 'configure' button...
- 3. Create a new file and call it server.js
- 4. For convenience instead of typing console.log (...) every time, we can shorten it by adding the following function:

(d stands for debug, but you can call it whatever you like...)



5. write the following code on top

```
//import the built in http module
 var http = require('http');
 //define some variables
 var host = 'localhost';
 var port = '3000';
 //create a web server
pvar server = http.createServer(function(req, res){
        //log the request url
        d('recieved request: ',req.url);
        //write a simple string response to the browser
        res.writeHead(200, {'Content-type':'text/plain'});
        res.end('hello server');
♠})
 //have the server listen to a given port
d('server is listening on ',host,' | ',port);
△});
```

- Create a new Run/Debug configuration pointing at server.js
 from the top menu Run > Edit configuration > + > Node.js
- 7. Run the app from the IDE you will see the **listening** prompt in the console.
- Open a browser and navigate to **localhost:3000** and hit enter
 you will see the URL response in the console and the message sent back to the
 response in the browser.
- Notice that the same message will appear in the browser if you navigate to a
 different route like localhost:3000/users but the server console prints out the
 difference in URL.
 - This is because right now we are sending the same response back no matter what is the URL.
- 10. Change the text returned to the browser via res.end()
- 11. Refresh the browser notice the text in the browser was not changed you'll have to restart the server manually to see the changes you've made to the code...
- 12. In your IDE stop the server and run it again, then refresh the browser to see the changes.



Notes:

Be sure to go through the full http://nodejs.org/api/http.html

http://nodejs.org/api/https.html

