Unit 13.1 Highlights

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http (core node module) - http module can create an HTTP server that listens to server ports and gives a response back to the
client over the Hyper Text Transfer Protocol
http.createServer() - http module method to create an HTTP server
http.listen() - Starts the HTTP server listening for connections
response.write() - Method writes some data to the stream, aka response
response.end() - Method signals no more data will be written to the stream, with the option to add one final chunk to the response
Ex. 1
var http = require("http"); //load the http module (npm install is NOT needed)
var PORT = 8080
//callback directly in the method
http.createServer(function (req, res) {
  res.write('Hello World!'); //write a response to the client
  res.end(); //end the response
}).listen(PORT);
Ex. 2
var http = require("http"); //load the http module (npm install is NOT needed)
var PORT = 8080
function handler(req, res){
  res.write('Hello World!');
  res.end() //end the response
//callback function as a reference
http.createServer(handler).listen(PORT);
response.writeHead() - Method adds HTTP header values to the response, which are the name/value pairs displayed in the
request and response messages of message headers for HTTP
request.url - Property containing the value of the URL path
Ex. 3
var http = require("http"); //load the http module (npm install is NOT needed)
var PORT = 8080
http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/html'});
  res.write(req.url); //add the request path to the response
  res.end():
   res.end()
}).listen(PORT);
  dirname - Node global variable containing the directory of the file currently executing
Ex. 4
var http = require("http");
var fs = require("fs"); //load the fs module (npm install is NOT needed)
var PORT = 8080;
function handler(req,res){
  fs.readFile(__dirname + "/index.html", function(err, data) { //loads file from the
    res.writeHead(200, { "Content-Type": "text/html" });
      res.end(data);
http.createServer(handler).listen(PORT);
req.method - Property containing the HTTP method of the request
Ex. 5
var http = require("http"); //load the http module (npm install is NOT needed)
var PORT = 8080;
function handler(req, res){
   res.writeHead(200, { "Content-Type": "text/html" });
   res.end(req.method); //adds the request method to the response
http.createServer(handler).listen(PORT);
```

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.on() - Method which triggers when events occur in request, response, or server object
Ex. 6

var http = require("http");
var PORT = 8080;
var myServer = http.createServer(handler).listen(PORT)

function handler(req,res){
    res.end("YAY!")
}
myServer.on('request', (request, response) => {
    console.log('request is received');
});
```

(Source: https://nodemon.io/)

Nodemon - Nodemon is a utility that will monitor for any changes in your source and automatically restart your server

```
Ex. 7 (from cli, make sure to run a npm version 5.2+)
```

npx nodemon <filename>

Ex. 8 (from cli, using global npm package)

npm install -g nodemon
nodeman <filename>