**Week 7 Notes (Server-Side with Node.js)**

**RE-INTRODUCTION TO NODE**

Node.js

* Adds a bit to what JavaScript can do
  + Several packages within Node.js

*Express*

* Framework for making web applications. Adds functionality around mapping URLs from HTTP requests to resources and adds to the Request and Response objects to facilitate handling HTTP requests and sending back responses

*Express Handlebars*

* Simplifies task of injecting content into HTML pages.
* Server side interactions generally help make HTML that is specific to the client requesting info
  + Handlebars is a templating engine which lets you have a template where you can replace specific fields with different data

*Express Sessions*

* Package that works with Express to save data about client accessing the server over several requests
* Lets you have client log ins, remember my login, etc

*Body Parser*

* Used to parse the bodies of requests sent by the client

*MySQL*

* Lets you connect to a MySQL database

\*\*\* Note: This course used to use PHP for server-side interactions, but switched to Node.js. PHP is still pretty ubiquitous in web programming

Node.js on Your Server

Hello world program:

var http = require('http');

http.createServer(function(req,res){

res.writeHead(200, { 'Content-Type': 'text/plain' });

res.end('Hello world!');

}).listen(3000);

console.log('Server started on localhost:3000; press Ctrl-C to terminate....');

require(‘http’); imports the http module (similar to #include in C/C++ or import in Python)

http.createServer is a function that takes a single arg, a function that serves as an event listener for incoming requests (which in turn takes two args every time a request is sent in by the a request object and response object.