[1] Get your Linux VM up and running (in school and at home). You MUST use my VM image as it has Hadoop installed, which is a tricky, complex installation.

[2] Build a node.js server project using Express

Get that working so that when you enter this url into chome

<http://localhost:3000>

**Timestamp 1:14:00**

Node replies with

**Express**

**Welcome to Express**

**[2] Modify that express route so that it instead returns a web app. U**se any JS frameworks you like, just JS and jQuery, or Jade, Angular, jQuery Mobile, React. …

The client page will display a single “order” filled in with random data. The user does not have to enter data.

The page displays 5 labels and 5 values (Please use my variable names, it will make later work easier.)

**storeNumber: value**

**salesPersonID: value**

**itemNumber: value**

**timePurch: value**

**pricePaid: value**

Use a random values within the respective ranges for each:

**storeNumber (98053 , 98007, 98077, 98055, 98011, 98046)**

**salesPersonID (1 through 24) BUT must be one of the 4 values matching the storeNumber**

**itemNumber (123456, 123654, 321456, 321654, 654123,**

**654321, 543216, 354126, 621453, 623451)**

**timePurch (the real time)**

**pricePaid (between 5 and 15) At this point, these can be simple integers.**

Please have two buttons on your page with corresponding JS methods.

One button “CREATE” calls a JS method that populates the 5 values with new random values every time you click it. It does not need to go back up to the server to complete this.

The other button “SUBMIT” calls a JS method that uses AJAX to submit the 5 values to another route on your node.js server. I suggest it use the same index route, but the first one is a “Get” and the second one is a “Post”. This node route should write the 5 values out to the console each time it receives a Post. If you know the new ES6 “Fetch”, you can use that instead of AJAX.

(Note that for next week’s assignment, you will have to add a 2nd button, which calls a new JS method which creates 450 orders and submits them, one at a time spaced out by at least 2 minutes, 450 times to the node.js server.)

[5] To submit your homework

- ZIP and submit your Node project

This might be easy if you are comfortable in the JS / Linux world, or it might take considerable learning on your part. I suggest you start it early.