



Fall 2019 Midterm Exam

Please all of the questions below in their own file. Do not include /node_modules. Once you complete all ten questions, zip up all your files (images, css, HTML, etc...) and upload just one (1) file.

1. Show how you display all the command line arguments used when launching a Node application.
2. Using MongoDB, Node with Express - Create a POST route to save 2 values from 2 HTML textfields ("username" and "emailAddress") to a MongoDB collection called "User". (You should use Mongoose to model your "User" object within a module.) Then, create a GET route to get all the data you currently have and show it in your HTML page via Ajax. Lastly, create a GET route to fetch and show in HTML one of the email addresses you saved. Use a route parameter username to find that email address. Show that email address in your HTML page.
3. Create a javascript module that does temperature conversions. (You only need to export one temperature conversion method) Then, show how you use your exported function(s) in a HTML page. Make sure it works.
4. Show how you would properly use the event emitter module by loading 10 command line arguments in your Node application. As you load each one, emit an event to the console that says, `console.log(`Processing command line argument ${value}`)`;
5. Show how you properly create, initialize and use session handling with ExpressJS with 2 examples of putting something into the session and pulling something out. (You should create 2 routes in your solution).
6. Show how you correct initialize and setup the Express.router for all the C.R.U.D operations using an imaginary bookstore. (No database is required. Just mock up the routes with `console.log()` statements). Make sure your router is within it's own file and then use `require()` to use it in your main application.js file



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7. Using NPM, show how you install a test development dependency with Jasmine on the command line (or sash shell). Then, show how you install a production dependency for ExpressJS.
8. Show how you globally install (on the command line or bash shell) "create-react-app"
9. Using require and __DIRNAME, show how you load a .json file that would be located under a folder called: /data/test/names.json
10. Show the difference in using query parameters and route parameters with small, concise examples. (PS: these routes should work.)