

# Node.js for Beginners

## Lab Exercise 2

1. Modify the static web server in chapter 2 to cache files so that it doesn't need to read the file from disk on each request.

- Make an object that will serve as the cache. The keys will store the file names, and the values will store the contents of the files.
- After the response is sent, save the contents of the file into the cache object.
- Modify the function that listens for requests. Before looking for the file on disk, check and see if the path is present in the cache. If it's present in the cache, serve it from there.

2. Make an express-based web server that serves a random quote in plain text. The quotes should be in an array.

- Set up your package json file with express as a dependency.
- Make your server file and instantiate express.
- Make an array with your quotes.
- Define the route that will respond with the random quote.
- Modify the route function to pick a random element from the quote array and call 'res.json' with it.

3. Write a server that uses an ejs view to generate an HTML page that turns an array into an HTML unordered list.

- Set up your package json file with express and ejs as a dependency.
- Make your server file and instantiate express.
- Set up your view engine as ejs.
- Define your array.
- Make an ejs file that loops through an array of elements and creates <li> tags inside a <ul>.
- Make an express route that renders your ejs view. Be sure to make the array you defined accessible to the view!

