

# Hello React Lab

Congratulations! You and your partners have just been hired by Dinner And A Movie, a movie theater and restaurant combination. They want us to build the movie booking system for their burgeoning business. They've been selling tickets by hand only in person and having the people pick their own seats. We're going to write the start for their web-based system that will allow customers to search for a showing and book reserved seats.

Let's get started!

## Make sure node and npm are installed

1. Open a bash shell and run this command:  
`npm --version`
2. Did you see a version number? If so, you have npm installed and you can skip to "Make sure MongoDB is Installed". If not, go to the next step.
3. Point your browser at <http://nodejs.org>
4. Click the download button on the main page. Choose the one recommended for most users; it will be the stable release.
5. Follow the instructions to install it on your machine. This will install both npm and node.
6. Rerun your `node --version` command to make sure it is installed alright. If you get command not found, you should probably reboot so make sure your PATH has been reread.

## Make sure MongoDB is installed

7. Run this command:  
`mongod --version`
8. Did you see a version number? If so, you have MongoDB installed and you can skip to "Download the starter files". If not, go to the next step.
9. Point your browser to [mongodb.com/download-center](http://mongodb.com/download-center). Choose to install mongoDB Community edition. Choose your OS and follow the instructions to install.
10. You may need to add the install directory to your path and restart.
11. Rerun your `mongod --version` command to make sure mongo installed properly.

## Download the starter files

12. Point your browser to the site your instructor gives you to download and install the starter files.
13. Take a look around the directory structure. You should see these directories:

instructions	Will eventually hold each lab's instructions
server	The server-side code which is pre-written for you. Feel free to look and see how node, express, and mongo work together.
starters	Some pre-baked images and html, css, and JavaScript files so you don't have to do as much busy work later on.

14. This is the root of your project. Please make a note of it here:  

---

## Install needed libraries

15. Open a command window and cd to the server directory. run "npm install" to install the needed libraries.

16. type this in

```
mongod
```

This will start up the database server so we can load some data into it. It should tell you that it is listening on port 27017 or something similar. Leave this running!

17. Open a different command window and cd to the server directory

18. Run this command in the bash shell

```
node load-database
```

This will load the database for the node/express/mongo web server with some initial data.

## Testing the web server

19. Now start the web server. Open a new bash shell and cd to the server directory. Run this command:

```
node daam-server
```

It will tell you it is listening on a particular port, usually 5000.

20. Try a few of these addresses:

```
localhost:5000/api/films
```

```
localhost:5000/api/theaters
```

```
localhost:5000/api/showings/10
```

If you can see data, you are up and running! You can be finished with this lab.