

CMPS 3680 Guided Lab 11

Spring 2025

Part 1 - Setup

1. For this assignment you will need to use your own server with nodejs/npm/apache installed and configured.
2. You will also need to install unzip if you haven't already:

```
sudo apt-get update
sudo apt-get install unzip
```

3. In your home (~) folder create a new directory called lab11
4. Inside of the lab11 folder run the following commands from the terminal:

```
wget https://wroyer.cs3680.com/lab11.zip
unzip lab11.zip
```

This will download and extract the required files you will use for this lab.

3. Review these files carefully, notice that I have already created a basic api structure for you.
4. Before you begin coding anything run the following command from your lab11 folder:

```
npm install
```

This will install the required packages we will be using for this lab (from the packages.json file)

5. I have already included a database for you in the sql/data folder, but I have also provided `createDB.js` (in the sql folder) if something happens and you need to recreate it.
6. Notice I have already provided some useful functions for you in `utils.js` and `user.js`
7. To run the server and have it managed by pm2 run the following command from your lab11 folder:

```
pm2 start server.js
```

Part 2 - server.js

1. Follow the todos in server.js
2. Use an api testing tool like insomnia or postman to test as you go

Part 3 - user/api.js

1. Follow the todos in user.js
2. Use an api testing tool like insomnia or postman to test as you go

Part 4 - Update Apache Config

1. Update your SSL apache config found in `/etc/apache2/sites-available/` to proxy-pass traffic from `/lab11` to port 5000 (unless you changed the port to something else)

Part 5 - HAVE FUN

Once you get one call working, the hard part is over. Now you can continue to add calls to user.js to make it a full-blown user management API. You can use createDB.js to recreate the user table if you want to make changes or add columns.