W8 Lab 7: Databases + Node.js

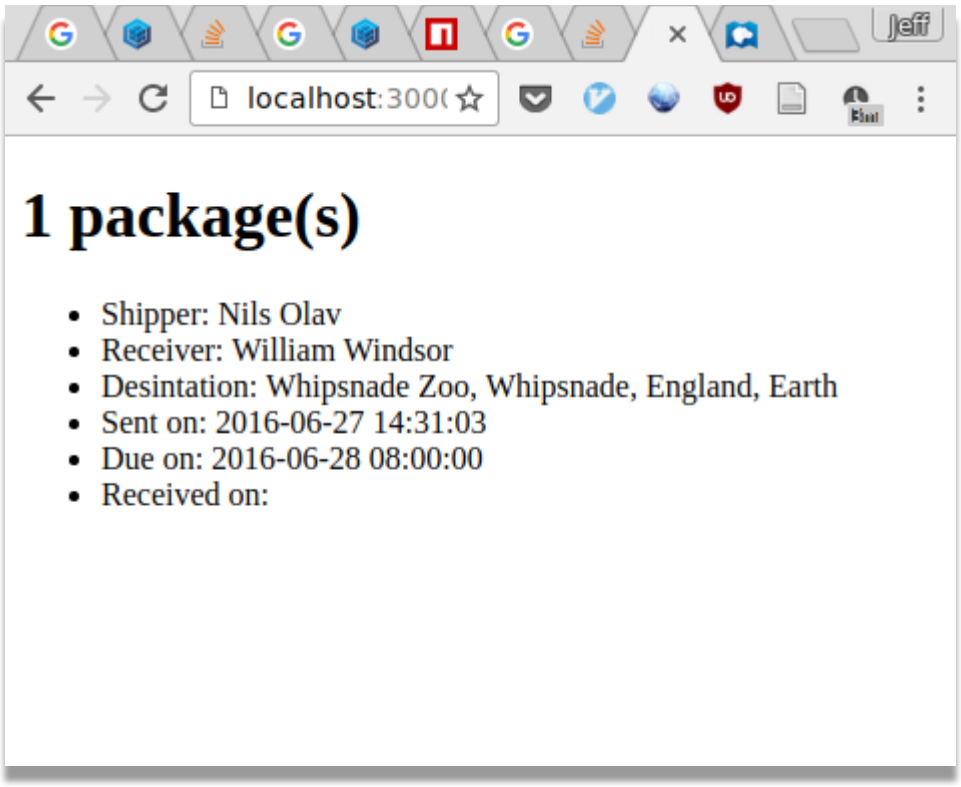
Practice retrieving data from a relational database and rendering it as HTML via Node.js. **This tutorial is conducted in pairs at your own pace**.

Prep

1) Install several **Node.js modules** via this command: `npm install sequelize sqlite3 handlebars`
2) In addition, you will need the **SQLite binary**. If you use OS X, this should already be on your system. (Open a terminal and run `sqlite3` to check.) If you use Windows, you can download the latest version here, under "Precompiled Binaries for Windows": http://sqlite.org/download.html

Instructions

1) Download the basic files from `GitHub > CSC309summer2016 > w8-lab`.
2) The first step is to **create the database** by running `sqlite3 shipments.sqlite < schema.sql`
3) Now, start the **server** via `node server.js`
   a. Tip: `nodemon` will automatically restart Node every time you changed your code. To use it, run `npm install -g nodemon`, then run `nodemon` instead of `node` (i.e., `nodemon server.js`).
4) Now, in **server.js**, modify the two pieces of the code (marked by `// Your code goes here`) necessary to make the application work.
5) Your result should look something like this:



Advanced

Add several additional packages to your database by running `INSERT` queries from the `sqlite3` shell. Render separate lists for packages that have been delivered already, and packages that are still awaiting delivery.

Deliverable:

All of your files submitted as a single zip named YOUR_LAST_NAMES-l7.zip to MarkUs. At the least, you should include the following files: index.html, server.js, shipments.sqlite, and a readme.pdf/txt/md file that includes your names, CDF IDs, and preferred contact emails.

Due:

The day after lab day (Tuesday) by 11:00am; pass/fail, 1.5%.