CSC 337

DEPLOYING YOUR CODE TO HEROKU

Tools

• GitHub

version control system where we can store our code

- Heroku
 - free web hosting system that will pull our code from GitHub and make it available on the web

GitHub

Accept the assignment at: <u>https://classroom.gith</u> <u>ub.com/g/2yPGUbcY</u>

 Accept it and you will get a repository that you can add files to

p to / Pul	l requests Issues Marketplace	Explore			
aeobourn / web-test Private			O Unwatch -	1 🛧 Star 0 😵 Fork 0	
<> Code (1) Issues (0) (1) Pull requ	uests 0 Projects 0	📭 Insights 🛛 🏟 Setti	ngs		
o description, website, or topics provid nage topics	led.			Edit	
🕝 7 commits	<u>پ</u> ۶ 1	branch		♥ 0 releases	
aranch: master - New pull request		Crea	te new file Upload files	Find File Clone or download -	
i aeobourn Create app.json			Lat	est commit eee3aad 20 minutes ago	
app.json	Create app.json			20 minutes ago	
ackage-lock.json Add files via upload			4 hours ago		
package.json Rename app.json to package.json		age.json	20 minutes ago		
server.js	Rename file_server.js to se	erver.js		28 minutes ago	
				5.1	

GitHub

- Add all of your files to your GitHub
- Do NOT add your node_modules folder
 - instead add package.json
 - specifies all necessary node packages that the server needs to install
 - if you use this, you won't need to install anything on the server
 - create this file by running

npm init

on the command line in folder that contains your project

• you will be prompted for information. Most can be left the default value but main should be your main .js file

Example package.json

```
"name": "25",
"version": "1.0.0",
  "description": "example",
"main": "cookie service.js",
  "dependencies": [
     "client-sessions": "^0.8.0",
     "cookie-parser": "^1.4.4",
     "express": "^4.16.4",
     "fs": "^0.0.1-security",
     "mvsal": "^2.17.0"
  },
  "devDependencies": {},
  "scripts": {
     "test": "echo \"Error: no test specified\" && exit
1"
  },
"keywords": [
     "example"
  "author": "Allison",
  "license": "ISC"
```

If your node packages are installed globally copy the bold dependencies information from the left and paste them into your package.json file. Delete any unneeded dependencies.

GitHub

• Add an app.json file to your GitHub. It should be in the following format:

```
"name": "Node.js Sample",
"description": "A barebones Node.js app using Express 4",
"repository": "https://github.com/heroku/node-js-sample",
"logo": "https://rawgit.com/heroku/node-js-sample/master/public/node.svg",
"keywords": ["node", "express", "static"]
}
```

• Replace all blue/green text with values appropriate for your app.

Code Changes

- In order for your code to run you will need to make the following changes:
 - 3000 (the port number) should be changed to process.env.PORT
 - this is a variable name representing the port number that Heroku will assign to your program
 - change this in your server side code AND client side code
 - All references to localhost should be changed to the address that your program will be at
 - it will be in the format http://some-name-you-choose.herokuapp.com
 - note that Heroku doesn't allow duplicate names so make sure that the name you pick is unique

Heroku

Create a <u>free Heroku account</u>

• Once your account is created and verified, you can deploy your app by visiting the following link (of course, replace <YOUR-REPOSITORY-NAME> with the name of your repository, such as hw5-sheets-mygithubname):

https://heroku.com/deploy?template=https://github.com/uacs337sprin
g2019/<YOUR-REPOSITORY-NAME>

- When the page loads, click the purple "Deploy" button.
- When the deployment finishes, you should see "Your app was successfully deployed." Click the "View" button.
- This will take you to your deployed app, which will look like

http://some-name-you-choose.herokuapp.com

Adding a Database

- Navigate to the Heroku dashboard for your project by clicking the icon made of nine blue dots that will be on the upper right of any Heroku page

- Select your project
- Click on the Resources menu option
- Type ClearDB into the search box under Add-ons and select the result
- Click the Settings menu option
- Press the reveal config vars button

- You will see something like mysql://bf13c37ec2b89a:b2e8435b@us-cdbr-iron-east-02.cleardb.net/heroku_af0310c62926023?reconnect=true

- The red portion is the database host
- The blue portion is the database name
- The green portion is the user
- The purple portion is the password