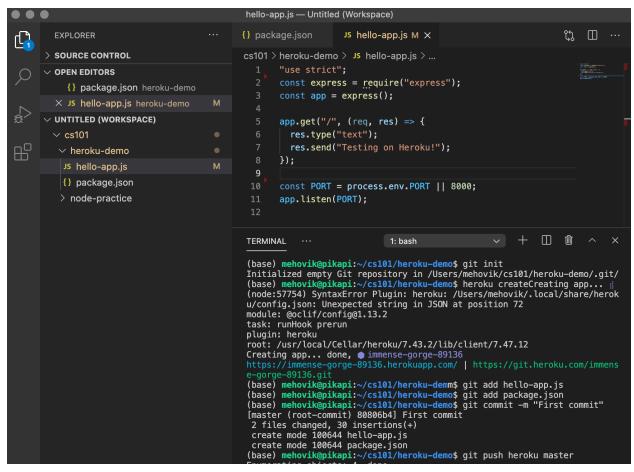
## Deploying a Node.js App to Heroku

- 1. Create a Heroku account (free).
- 2. Install the <u>Heroku CLI</u> (Command Line Interface) to use the heroku command to create, monitor, and deploy your Heroku app (usually requires internet connection).
- 3. In your package.json, specify the node script to run on the server (similar to the one you would run in the command line locally, but use node instead of nodemon). To do so, add "start": "node <app-file-name>" to the "scripts" as seen on line 8 below:

```
{} package.json ×
cs101 > heroku-demo > {} package.json > {} scripts > includes start
         "name": "heroku-test",
         "version": "1.0.0",
         "description": "",
         "main": "hello-app.js",
          ▶ Debug
         "scripts": {
           "test": "echo \"Error: no test specified\" && exit 1",
           "start": "node hello-app.js"
         "author": "Melissa Hovik",
 11
         "license": "ISC"
 12
       }
 13
```

- 4. Initialize your Heroku repository. Heroku makes use of git to manage your files. However, we need to create this repository first.
  - a. Open your terminal in your project directory (type Is to make sure your files are there) and type git init to create the necessary files for managing the Heroku repository.
  - b. For the first time you create a Heroku app, run heroku login to authenticate your user/pass locally. **This is a one-time step**. Note that if you are using Windows and get stuck at the login screen, you may need to use the Windows Command Prompt instead of Git Bash. See Appendix at bottom of this document for equivalent screenshots.
  - c. Run heroku create. This will tie your local repository to Heroku and allow you to push your files.
  - d. Add your files (but not any node\_modules these will be installed on Heroku using your package.json) with git add and then commit with git commit -m "commit message".



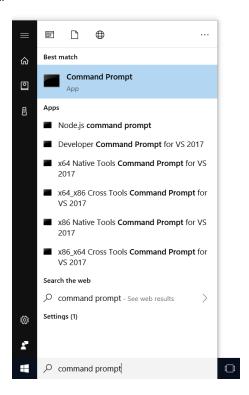
5. Push the repository to heroku with git push heroku master. A link will be printed to the terminal once your site is online. This is the URL to your web service (and you can also fetch from it!) To easily open within the current directory, run: heroku open.

```
remote: ----> Launching...
remote: Released v3
remote: https://hidden-wildwood-24595.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/hidden-wildwood-24595.git
* [new branch] master -> master
(base) mehovik@pikapi ~/Desktop/cse154/heroku-test (master) $ heroku open
```



## Appendix: Screenshots using Windows Command Prompt

To find the Command Prompt:



Screenshots of equivalent steps using Command Prompt in main document:

```
3 Dir(s) 47,127,261,184 bytes free

C:\Users\Emmanuel\Documents\Test>heroku login
heroku: Press any key to open up the browser to login or q to exit:
Opening browser to https://cli-auth.heroku.com/auth/browser/aacb6452-5d2a-4924-9b3a-7e616785d8b7
Logging in... done
Logged in as 1mannymunoz@gmail.com

C:\Users\Emmanuel\Documents\Test>heroku create
Creating app... done, @ evening-spire-41547
https://evening-spire-41547.herokuapp.com/ | https://git.heroku.com/evening-spire-41547.git
```

```
Command Prompt
                                                                                                                                     1 file changed, 1 insertion(+)
 ::\Users\Emmanuel\Documents\Test>git push heroku master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 293 bytes | 293.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0) remote: Compressing source files... done.
 remote: Building source:
 remote:
 remote: ----> Node.js app detected
 remote:
 remote: ----> Creating runtime environment
 emote:
                 NPM_CONFIG_LOGLEVEL=error
 emote:
 emote:
                  NODE_ENV=production
                 NODE MODULES CACHE=true
 remote:
                 NODE_VERBOSE=false
 emote:
 remote:
 remote: ----> Installing binaries
                 engines.node (package.json): unspecified engines.npm (package.json): unspecified (use default)
 remote:
 emote:
 emote:
                 Resolving node version 10.x...

Downloading and installing node 10.16.2...
 remote:
 emote:
 remote:
                  Using default npm version: 6.9.0
 remote:
 Command Prompt
                                                                                                                                    remote: ----> Build
 remote:
 remote: ----> Pruning devDependencies
remote: audited 126 packages in 0.719s
                  found 0 vulnerabilities
 emote:
 emote:
 emote:
 remote: ----> Caching build
 emote:
                 - node_modules
 remote:
 remote: ----> Build succeeded!
 remote: ----> Discovering process types
                Procfile declares types
                                                   -> (none)
 remote:
                 Default types for buildpack -> web
 remote:
 emote:
 remote: ----> Compressing...
                 Done: 19.8M
 remote:
 remote: ----> Launching...
 emote:
                 Released v5
 emote:
                 https://gentle-everglades-29405.herokuapp.com/ deployed to Heroku
 emote:
 remote: Verifying deploy... done.
 o https://git.heroku.com/gentle-everglades-29405.git
   78eac80..3ce0896 master -> master
  :\Users\Emmanuel\Documents\Test>heroku open
```