

Exercise 5 Documentation

1. To start the exercise, I first initialized both a new Github repository using git init and a new NPM project using npm init.

The screenshot displays a GitHub repository named "CPSC349_Exercise-5" and a VS Code editor window. The GitHub page shows the repository's initial commit, "Randell157 initial commit", with a commit hash of "acd81c3" and a timestamp of "1 minute ago". The repository has 1 branch and 0 tags. The VS Code editor shows the "package.json" file with the following content:

```
1 {
2   "name": "exercise-5",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \\Error: no test specified\\ && exit 1"
8   },
9   "author": "",
10  "license": "ISC"
11 }
12
```

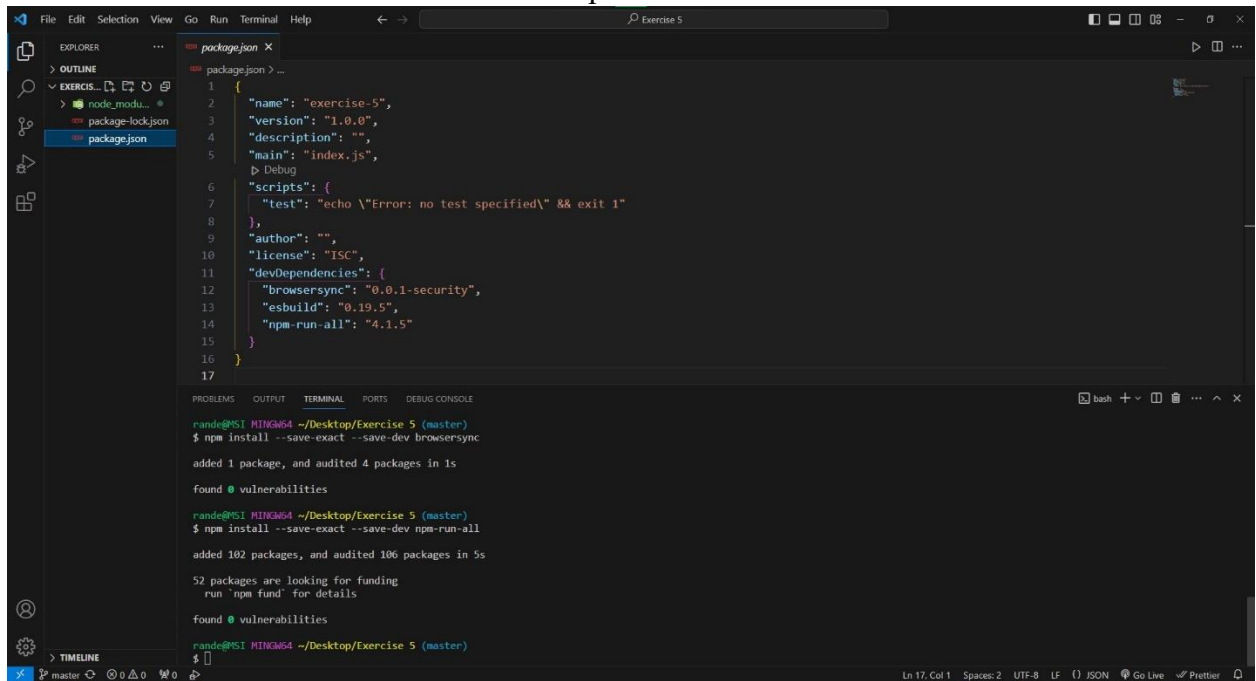
The terminal window shows the command prompt with the following output:

```
rande@PSI MINGW64 ~/Desktop/Exercise 5 (master)
$
```

The terminal also shows the command prompt with the following output:

```
rande@PSI MINGW64 ~/Desktop/Exercise 5 (master)
$
```

- I then installed the 3 NPM modules as dev dependencies.



The screenshot shows the VS Code interface with the `package.json` file open in the editor. The file contains the following JSON:

```
{
  "name": "exercise-5",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "author": "",
  "license": "ISC",
  "devDependencies": {
    "browsersync": "0.0.1-security",
    "esbuild": "0.19.5",
    "npm-run-all": "4.1.5"
  }
}
```

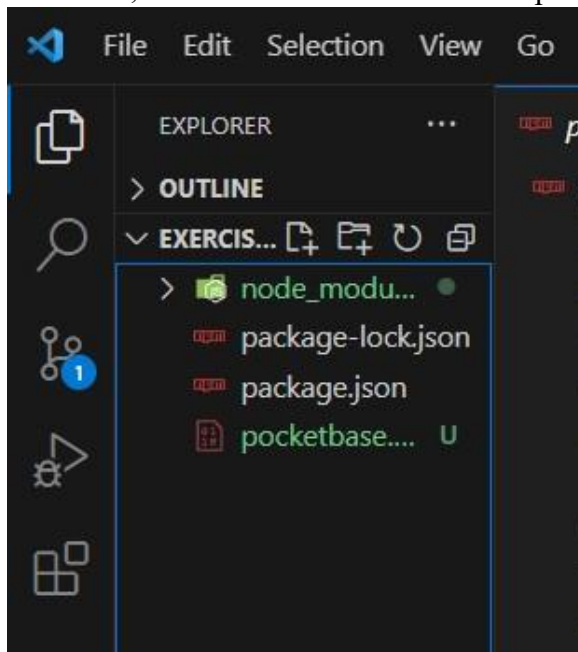
The terminal at the bottom shows the following commands and output:

```
rande@PS1 MITGW64 ~/Desktop/Exercise 5 (master)
$ npm install --save-exact --save-dev browsersync
added 1 package, and audited 4 packages in 1s
found 0 vulnerabilities

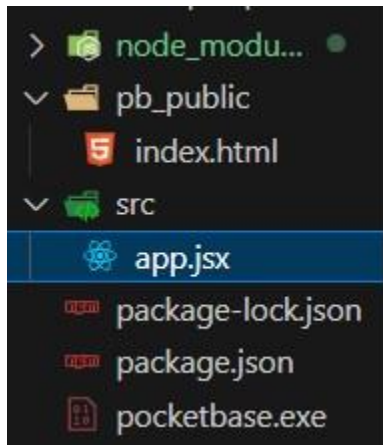
rande@PS1 MITGW64 ~/Desktop/Exercise 5 (master)
$ npm install --save-exact --save-dev npm-run-all
added 102 packages, and audited 106 packages in 5s
52 packages are looking for funding
run npm fund for details
found 0 vulnerabilities

rande@PS1 MITGW64 ~/Desktop/Exercise 5 (master)
$
```

- After that, I downloaded Pocketbase and put the executable file into the root repository.



- I then created both the pb_public and src folders
- Then added the index.html and app.jsx files to their respective folders.



- I then added the CDN links for React. However, I also saw that the CDN links were apart of the legacy react page, so I decided to npm install react react-dom. (Not sure if this was required though)

```
index.html M X app.jsx
pb_public > index.html > html > body > script
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <title>CPSC 349 - Exercise 4</title>
6   <meta name="viewport" content="width=device-width, initial-scale=1" />
7
8   <script type="module" src="app.js"></script>
9 </head>
10
11 <body>
12   <div id="root"></div>
13   <script src="https://unpkg.com/react@18/umd/react.development.js"></script>
14   <script src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"></script>
15 </body>
16
17 </html>

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE

2023/11/05 01:40:21 Server started at http://127.0.0.1:8090
└─ REST API: http://127.0.0.1:8090/api/
└─ Admin UI: http://127.0.0.1:8090/_/
'browser-sync' is not recognized as an internal or external command,
operable program or batch file.
ERROR: "browsersync" exited with 1.

rande@MSI MINGW64 ~/Desktop/Exercise 5 (master)
$ npm install react react-dom

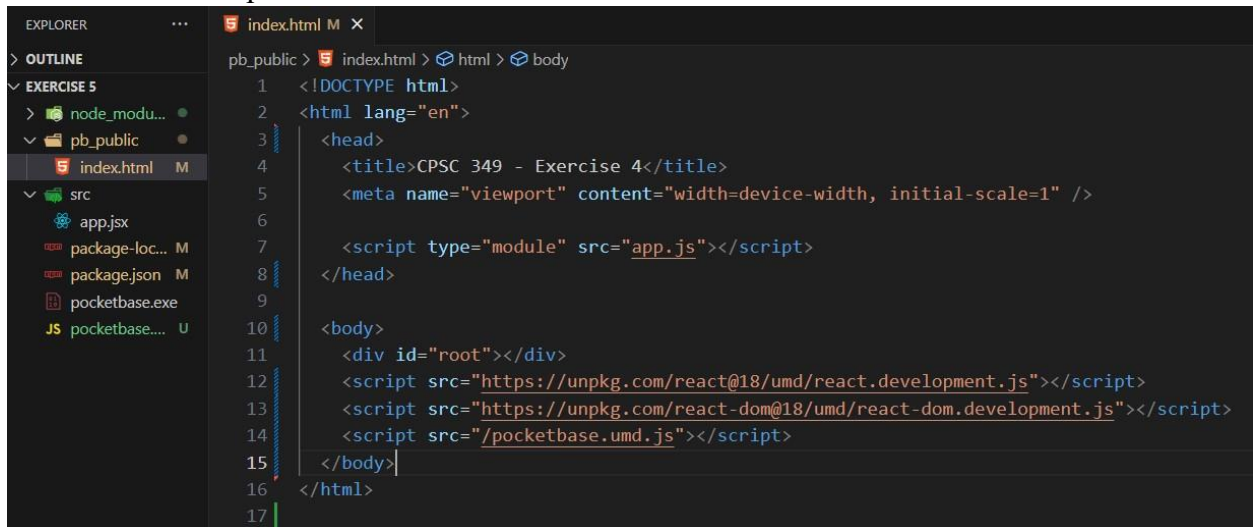
added 5 packages, removed 1 package, and audited 111 packages in 2s

52 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

rande@MSI MINGW64 ~/Desktop/Exercise 5 (master)
$
```

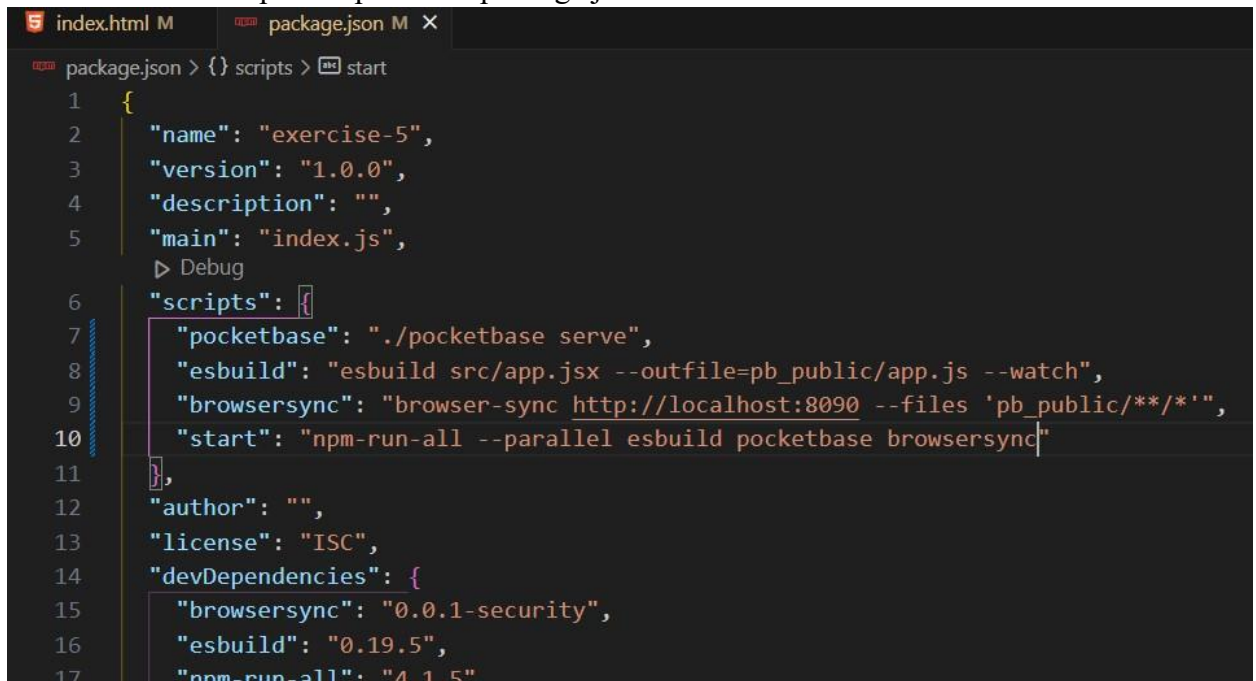
7. For the Pocketbase Javascript SDK, I downloaded one of the files from the Github page in the dist folder and put the file into the root folder.



```
EXPLORER
  pb_public
    index.html
  src
    app.jsx
    package-loc...
    package.json
    pocketbase.exe
    JS pocketbase....

index.html
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <title>CPSC 349 - Exercise 4</title>
5     <meta name="viewport" content="width=device-width, initial-scale=1" />
6
7     <script type="module" src="app.js"></script>
8   </head>
9
10  <body>
11    <div id="root"></div>
12    <script src="https://unpkg.com/react@18/umd/react.development.js"></script>
13    <script src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"></script>
14    <script src="/pocketbase.umd.js"></script>
15  </body>
16 </html>
17
```

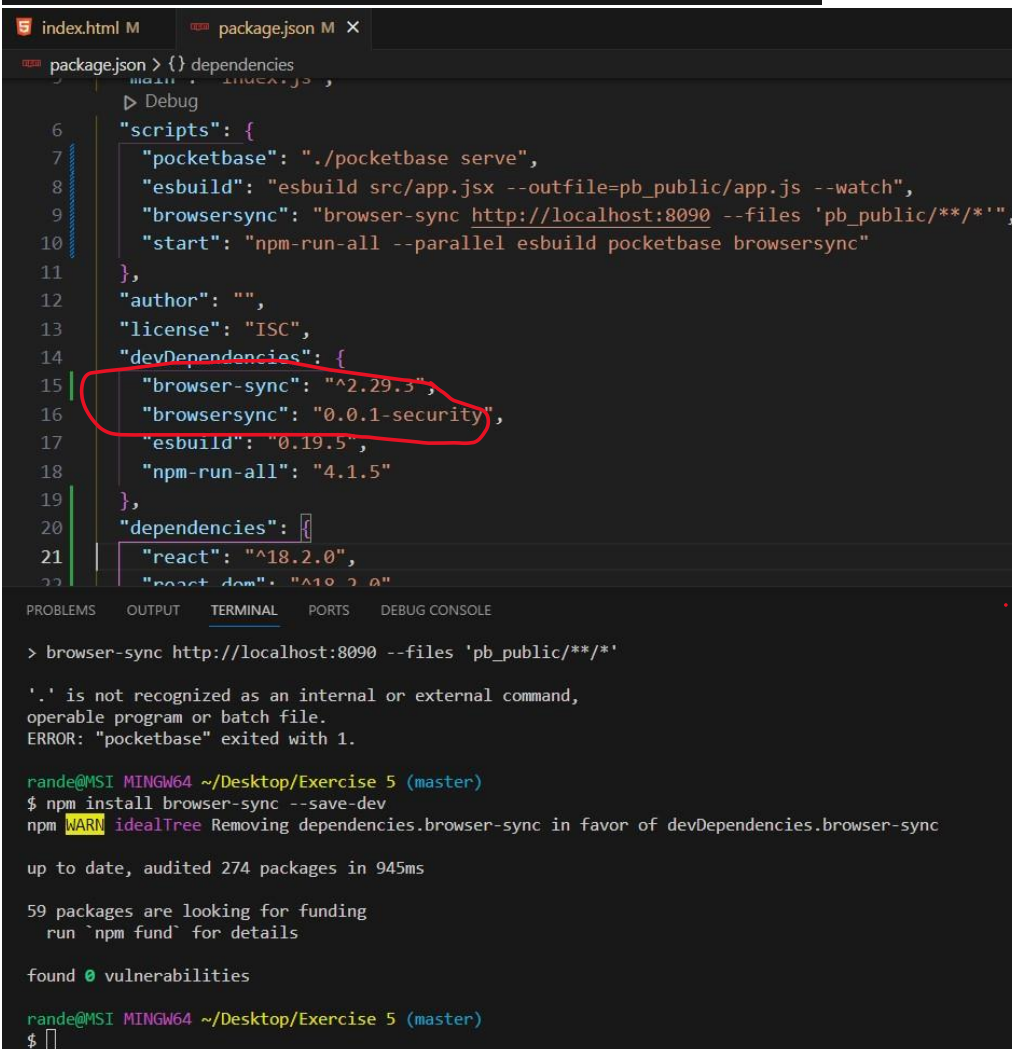
8. I then added the 4 npm scripts to the package.json file.



```
package.json
1 {
2   "name": "exercise-5",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "pocketbase": "./pocketbase serve",
8     "esbuild": "esbuild src/app.jsx --outfile=pb_public/app.js --watch",
9     "browsersync": "browser-sync http://localhost:8090 --files 'pb_public/**/*'",
10    "start": "npm-run-all --parallel esbuild pocketbase browsersync"
11  },
12  "author": "",
13  "license": "ISC",
14  "devDependencies": {
15    "browsersync": "0.0.1-security",
16    "esbuild": "0.19.5",
17    "npm-run-all": "4.1.5"
18  }
19 }
```

9. When trying to run the command `npm start`, I got these two errors. For the `browser-sync` error, I may have installed the wrong `browser-sync` as there is both `browsersync` and `browser-sync`. So, I installed the correct one. As for the `./pocketbase serve` not working, I removed the `./` from the line and that seemed to fix my issue.

```
'.' is not recognized as an internal or external command,  
operable program or batch file.  
'browser-sync' is not recognized as an internal or external command,  
operable program or batch file.  
ERROR: "pocketbase" exited with 1.
```



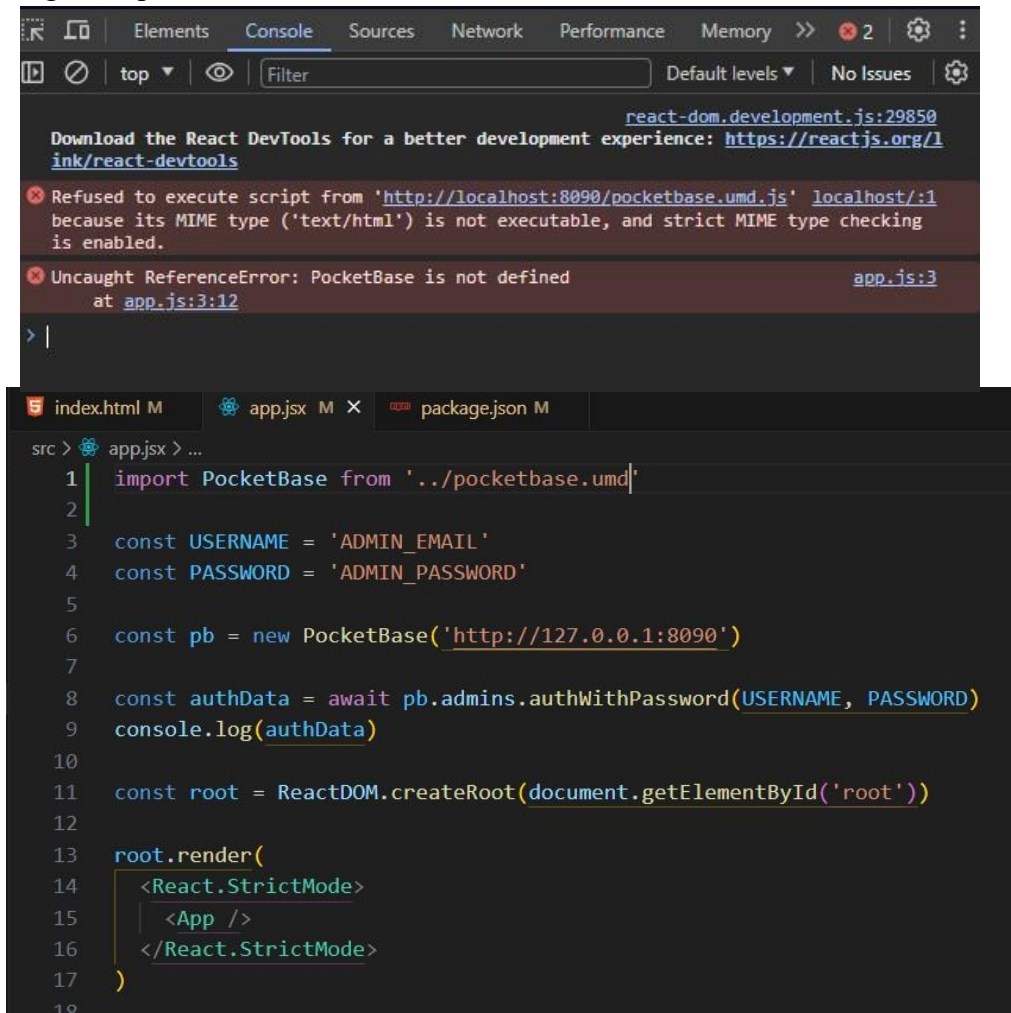
The screenshot shows a VS Code editor with two tabs: `index.html` and `package.json`. The `package.json` file is open, showing the following content:

```
{  
  "name": "idealTree",  
  "version": "1.0.0",  
  "scripts": {  
    "pocketbase": "./pocketbase serve",  
    "esbuild": "esbuild src/app.jsx --outfile=pb_public/app.js --watch",  
    "browsersync": "browser-sync http://localhost:8090 --files 'pb_public/**/*'",  
    "start": "npm-run-all --parallel esbuild pocketbase browsersync"  
  },  
  "author": "",  
  "license": "ISC",  
  "devDependencies": {  
    "browser-sync": "^2.29.3",  
    "browsersync": "0.0.1-security",  
    "esbuild": "0.19.5",  
    "npm-run-all": "4.1.5"  
  },  
  "dependencies": {  
    "react": "^18.2.0",  
    "pocket-base": "^1.0.0"  
  }  
}
```

The `devDependencies` section is highlighted with a red circle. Below the editor, the terminal output shows the following commands and results:

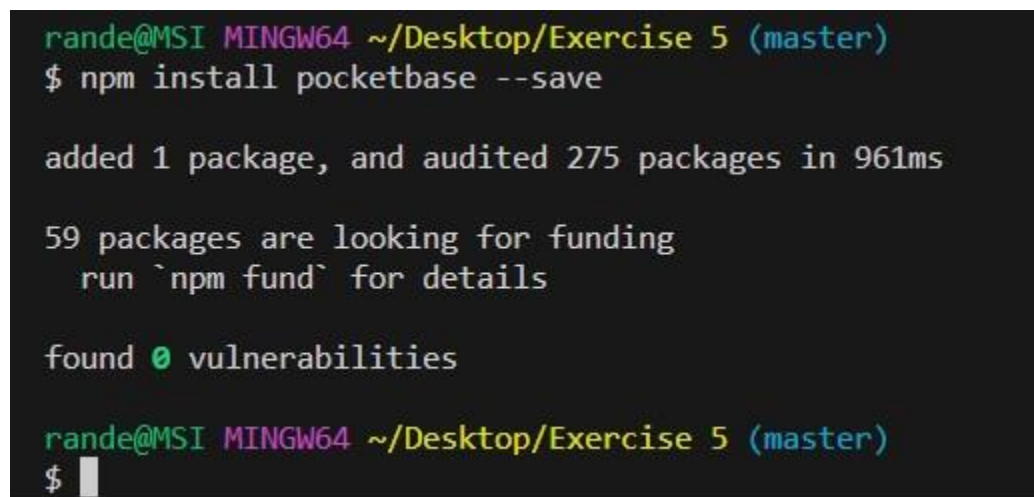
```
> browser-sync http://localhost:8090 --files 'pb_public/**/*'  
  
'.' is not recognized as an internal or external command,  
operable program or batch file.  
ERROR: "pocketbase" exited with 1.  
  
rande@MSI MINGW64 ~/Desktop/Exercise 5 (master)  
$ npm install browser-sync --save-dev  
npm WARN idealTree Removing dependencies.browser-sync in favor of devDependencies.browser-sync  
  
up to date, audited 274 packages in 945ms  
  
59 packages are looking for funding  
  run `npm fund` for details  
  
found 0 vulnerabilities  
  
rande@MSI MINGW64 ~/Desktop/Exercise 5 (master)  
$
```


However, I stumbled into another problem, where I would get two errors within the devtools of my browser. I fixed one of them by putting an import in the app.jsx file to define the PocketBase. As for the other error, I decided to npm install pocketbase --save to get the pocketbase files onto the node folder



The screenshot shows a browser's developer tools console with two error messages. The first error is a 'Refused to execute script from 'http://localhost:8090/pocketbase.umd.js' localhost/:1 because its MIME type ('text/html') is not executable, and strict MIME type checking is enabled.' The second error is an 'Uncaught ReferenceError: PocketBase is not defined' at app.js:3. Below the console, the VS Code editor shows the app.jsx file with the following code:

```
src > app.jsx > ...
1 | import PocketBase from '../pocketbase.umd'
2 |
3 | const USERNAME = 'ADMIN_EMAIL'
4 | const PASSWORD = 'ADMIN_PASSWORD'
5 |
6 | const pb = new PocketBase('http://127.0.0.1:8090')
7 |
8 | const authData = await pb.admins.authWithPassword(USERNAME, PASSWORD)
9 | console.log(authData)
10 |
11 | const root = ReactDOM.createRoot(document.getElementById('root'))
12 |
13 | root.render(
14 |   <React.StrictMode>
15 |     <App />
16 |   </React.StrictMode>
17 | )
18 |
```



The terminal screenshot shows the command `npm install pocketbase --save` being executed in a Windows command prompt. The output indicates that 1 package was added and 275 packages were audited in 961ms. It also shows that 59 packages are looking for funding and that 0 vulnerabilities were found.

```
rande@MSI MINGW64 ~/Desktop/Exercise 5 (master)
$ npm install pocketbase --save

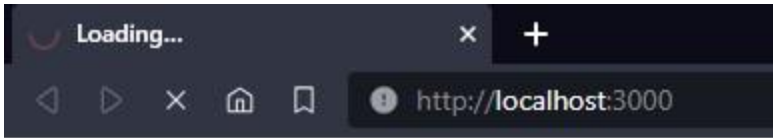
added 1 package, and audited 275 packages in 961ms

59 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

rande@MSI MINGW64 ~/Desktop/Exercise 5 (master)
$
```

Also, when trying to load the localhost:3000, it would not load any page. Not sure if that is due to my computer or the code.



After a couple of hours of trial and error, I decide to instead of using the pocketbase npm, I used a pocketbase cdn onto the html file and removed the import from the app.jsx file. This led to the authentication error I needed to get to proceed to the next step!

```
pb_public > index.html > html > html > body > script
1 <html>
2   <html lang="en">
3     <head>
4       <title>CPSC 349 - Exercise 5</title>
5       <meta name="viewport" content="width=device-width, initial-scale=1" />
6       <script type="module" src="app.js"></script>
7     </head>
8
9     <body>
10      <div id="root"></div>
11      <script src="https://unpkg.com/react@18/umd/react.development.js"></script>
12      <script src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"></script>
13      <script src="https://cdn.jsdelivr.net/npm/pocketbase@0.8.0-rc1/pocketbase.umd.js"></script>
14    </body>
15  </html>
16 </html>
17
```

react-dom.development.js:29850

Download the React DevTools for a better development experience: <https://reactjs.org/link/react-devtools>

Failed to load resource: the server responded with a status of 400 (Bad Request) 127.0.0.1:8090/api/auth-with-password:1

Uncaught ClientResponseError 400: Something went wrong while processing your request. ClientResponseError.ts:13

at new o (ClientResponseError.ts:13:9)

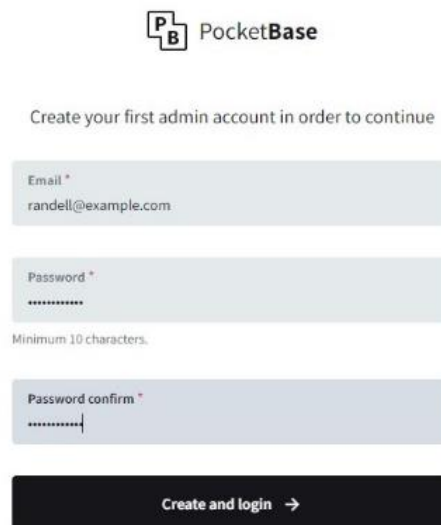
at Client.ts:269:23

at async app.js:4:18

```
{"code":401,"message":"The request requires valid admin authorization token to be set.,"data":{}}
```

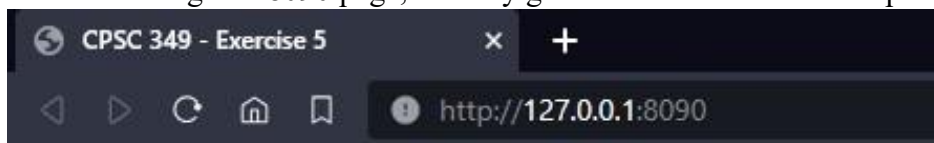
10. I went to the PocketBase Admin UI and filled out the email and password. Then I used that same login and modified the app.jsx file with the same credentials

```
src > app.jsx > ...
1 |
2 | const USERNAME = 'randell@example.com'
3 | const PASSWORD = 'randellllapid'
4 |
5 | const pb = new PocketBase('http://127.0.0.1:8090')
6 |
7 | const authData = await pb.admins.authWithPassword(USERNAME, PASSWORD)
8 | console.log(authData)
9 |
10 | const root = ReactDOM.createRoot(document.getElementById('root'))
11 |
12 | root.render(
13 |   <React.StrictMode>
14 |     <App />
15 |   </React.StrictMode>
16 | )
17 |
18 | function App () {
```



The screenshot shows the PocketBase Admin UI registration page. At the top is the PocketBase logo. Below it is the text "Create your first admin account in order to continue". There are three input fields: "Email *" with the value "randell@example.com", "Password *" with masked characters "*****", and "Password confirm *" also with masked characters. A note "Minimum 10 characters." is visible below the password field. At the bottom is a dark button labeled "Create and login →".

11. After reloading the :8090 page, I finally get the result needed to complete the assignment!



Hello, randell@example.com