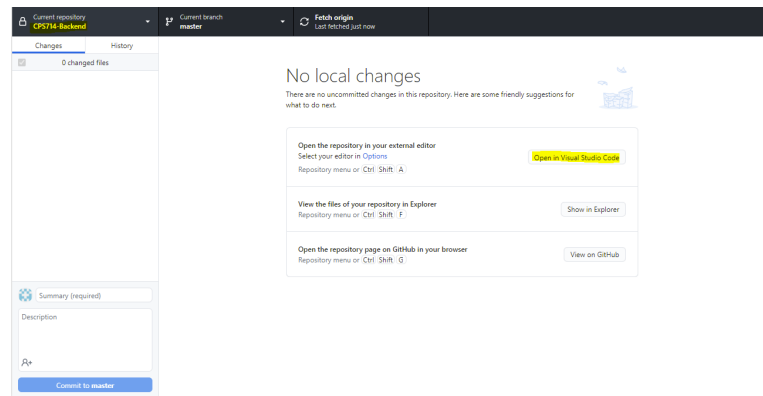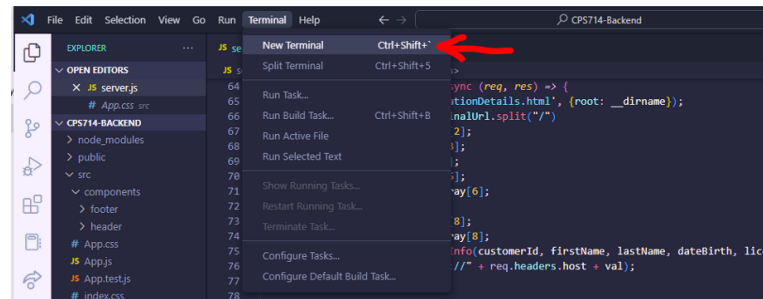# HOW TO RUN BACKEND

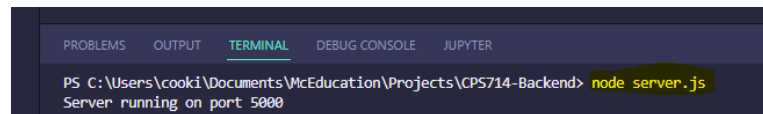|	
1. Download/clone the Backend project.	
2. Open the project folder in VSCode.	
3. Open a New Terminal. Start the server with the command: `node server.js` Now the server will be running on port 5000.	

PS C:\Users\cooki\Documents\McEducation\Projects\CPS714-Backend> `node server.js`
Server running on port 5000

|	
VERIFICATION STEP In your browser, check that the server is running by testing a sample command: Visit http://localhost:5000/**get-branches** ➔ This should fetch a json object containing the 'branches' table of our car rental db ➔ If the page on the right is displayed, then ya you've successfully connected to the backend! :)	

{"rows":[{"branchName":"WheelsToGo Toronto","branchId":10,"street":"789 Yonge St ","city":"Toronto","province":"ON","postalCode":"M4W 2G8","phoneNumber":"4163957368"},{"branchName":"WheelsToGo Ottawa","branchId":20,"street":"395 Wellington St","city":"Ottawa","province":"ON","postalCode":"K1A 0N4","phoneNumber":"6139967368"},{"branchName":"WheelsToGo Niagara Falls","branchId":30,"street":"4840 Victoria Ave","city":"Niagara Falls","province":"ON","postalCode":"L2E 4C5","phoneNumber":"9053567368"},{"branchName":"WheelsToGo Montreal","branchId":40,"street":"3459 Mc Tavish St","city":"Montreal","province":"QB","postalCode":"H3A 0C9","phoneNumber":"5143917368"},{"branchName":"WheelsToGo Quebec City","branchId":50,"street":"755 Rue Saint-Jean","city":"Quebec City","province":"QB","postalCode":"G1R 1R1","phoneNumber":"4186417368"},{"branchName":"WheelsToGo Vancouver","branchId":60,"street":"350 W Georgia St","city":"Vancouver","province":"BC","postalCode":"V6B 6B1","phoneNumber":"6043317368"},{"branchName":"WheelsToGo Victoria","branchId":70,"street":"735 Broughton St","city":"Victoria","province":"BC","postalCode":"V8W 3H2","phoneNumber":"2509407368"},{"branchName":"WheelsToGo Banff","branchId":80,"street":"101 Bear St","city":"Banff","province":"AB","postalCode":"T1L 1H3","phoneNumber":"4037627368"},{"branchName":"WheelsToGo Halifax","branchId":90,"street":"5440 Spring Garden Rd","city":"Halifax","province":"NS","postalCode":"B3J 1E9","phoneNumber":"9024907368"}]}

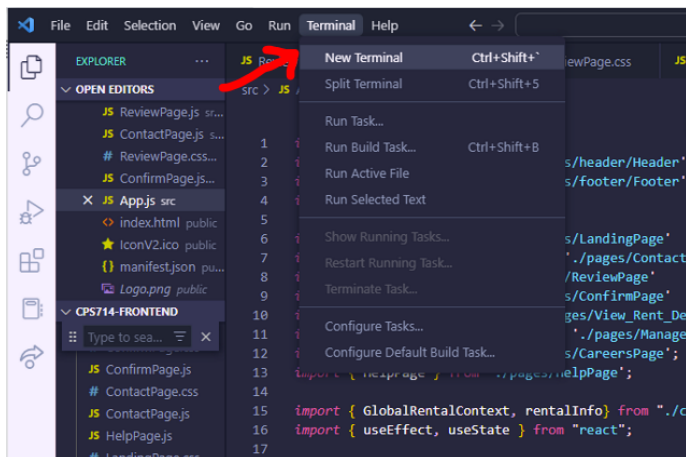# HOW TO RUN FRONTEND + BACKEND

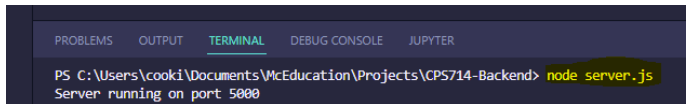|	
Assuming you've already followed the steps above for running the backend... 1. Download/clone Frontend project from Github	
2. Open the Frontend project folder in VSCode.	
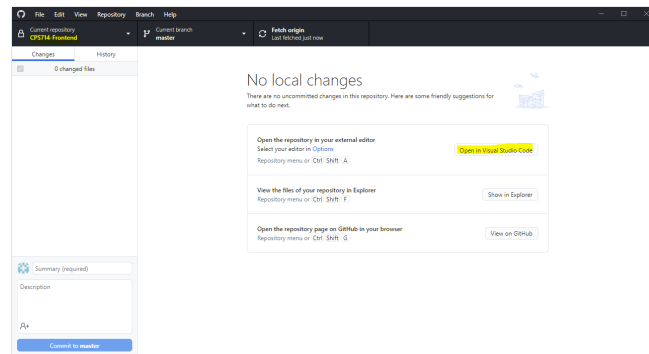
3. Open a new terminal.
 	
Ensure all dependencies are installed by running the commands below :
 	
`npm i`
 	
`npm install @mui/material @emotion/react @emotion/styled`
	
	`PS C:\Users\cooki\Documents\McEducation\Projects\CPS714-Frontend> npm install`

4. Make sure the backend server is running on port 5000 (see #3 of HOW TO RUN BACKEND)	PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE JUPYTER
	
	`PS C:\Users\cooki\Documents\McEducation\Projects\CPS714-Backend> node server.js`
	`Server running on port 5000`

5. Start the frontend app by running:

```
npm run start
```


Once the app has compiled successfully, it will be served on port 3000.

VERIFICATION STEP

Test that the app works by opening this url in your browser: http://localhost:3000
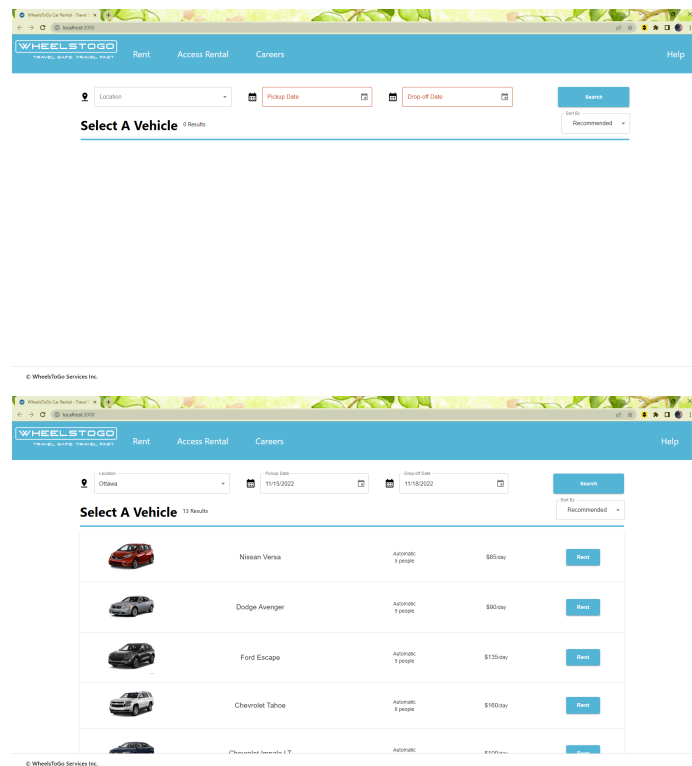
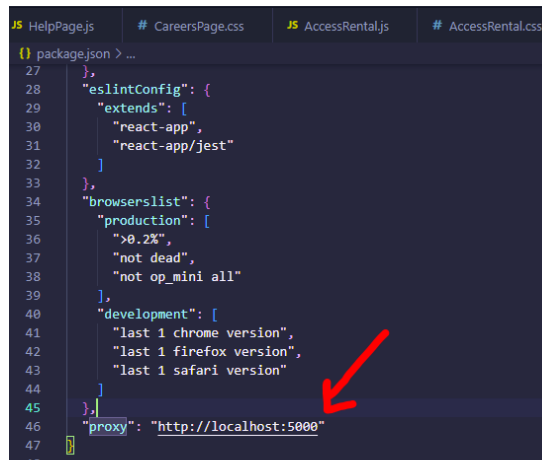# IMPORTANT NOTE in case you have a Macbook!

Port 5000 may be used as an airplane receiver on Apple/Mac computers, so our backend port will need to be changed to run on an available port (like port 3001) in order to be successful. To change the backend port, simply make the following changes:

- IN THE FRONTEND PROJECT...

    1. Navigate to package.json
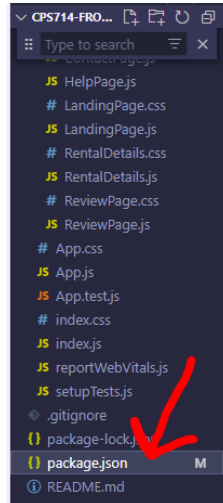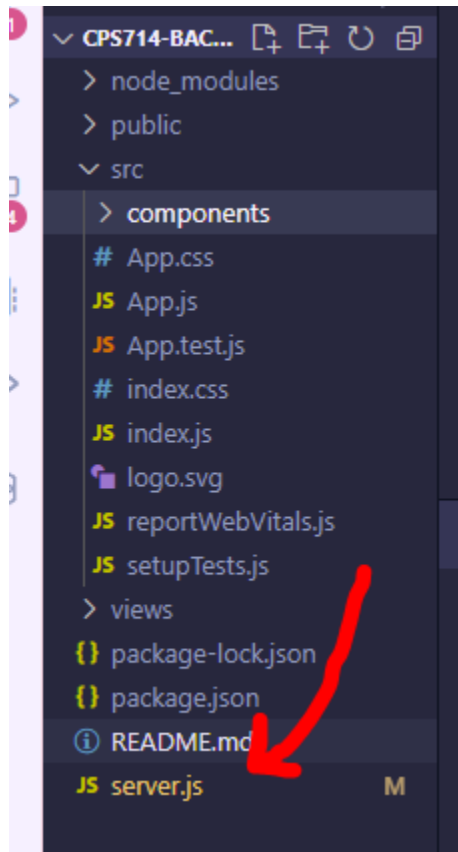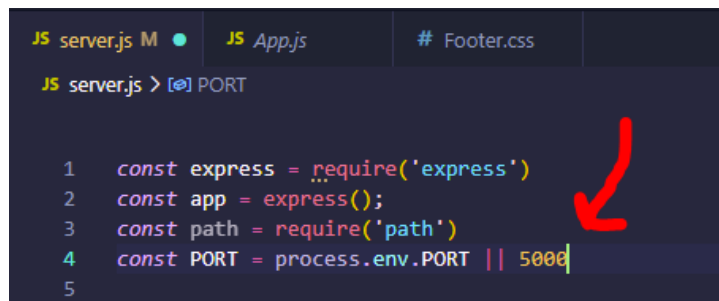
    2. Ctrl-F "proxy"

    3. Change to 3001

    4. Save!!!
       Then keep following the instructions below.
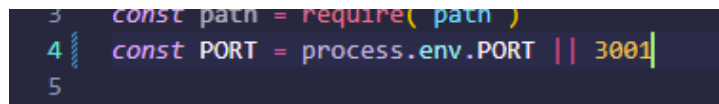
- IN THE BACKEND PROJECT FOLDER...

5. Navigate to server.js.

6. Ctrl F "PORT"

```
JS server.js M ●    JS App.js        # Footer.css

JS server.js > [@] PORT

1   const express = require('express')
2   const app = express();
3   const path = require('path')
4   const PORT = process.env.PORT || 5000
5
```

7. Change to 3001

```
3   const path = require('path')
4   const PORT = process.env.PORT || 3001
5
```

8. Save changes!!!

9. Now rerun both the backend and frontend applications by referring to the above tutorials. Hopefully there should be no issues now :)