**[Renton Technical College CSI-248](https://github.com/EmeryCSI/CSI248F23_GuidedActivity3" \l "renton-technical-college-csi-248)**

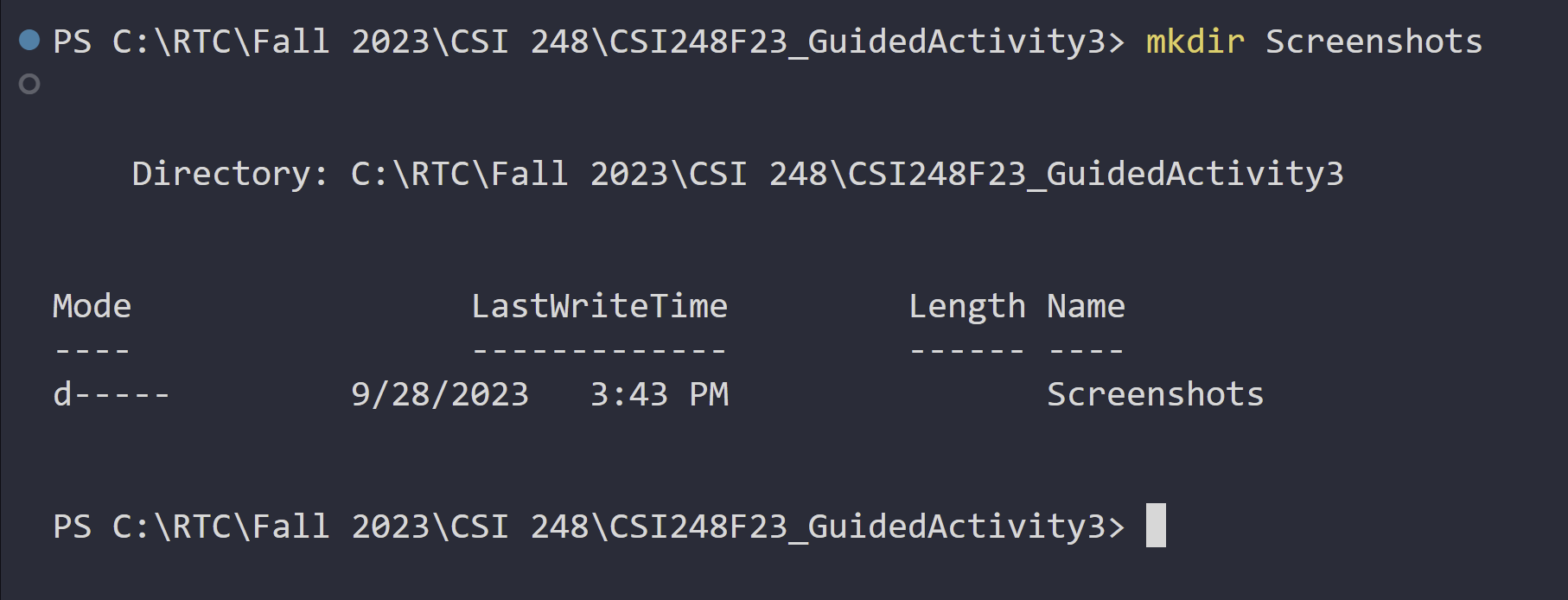
[**Guided Activity 3**](https://github.com/EmeryCSI/CSI248F23_GuidedActivity3#guided-activity-3)

This repository is a part of CSI-248 at Renton Technical College.

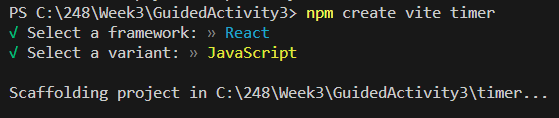
[**Guided Activity 3 - Project Creation**](https://github.com/EmeryCSI/CSI248F23_GuidedActivity3#guided-activity-3---project-creation)

We will complete this assignment together in class. If you are having problems with this assignment please refer to the lecture recording.

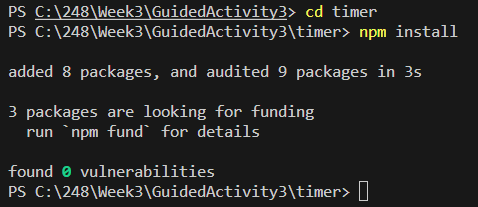
1. Clone the repository to your local machine. (Do not use OneDrive for assignments in this course!)
2. Make note of the folder where you cloned the repository.
3. After you have cloned this repository navigate to your local repository using the cd command.
4. Open the repository in Visual Studio Code by typing code .
5. Open the terminal in Visual Studio Code by hitting ctrl + ` or cmd + ` on mac.
6. Create a directory for your screenshots with mkdir Screenshots

[](https://private-user-images.githubusercontent.com/90283966/271433316-096d53c1-b6d4-47fe-b607-f68afa4532dd.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..F3S3MlyEFFh2l8WLmpsTD1jTI1rOnB8-YVHkU3Mqhfc)

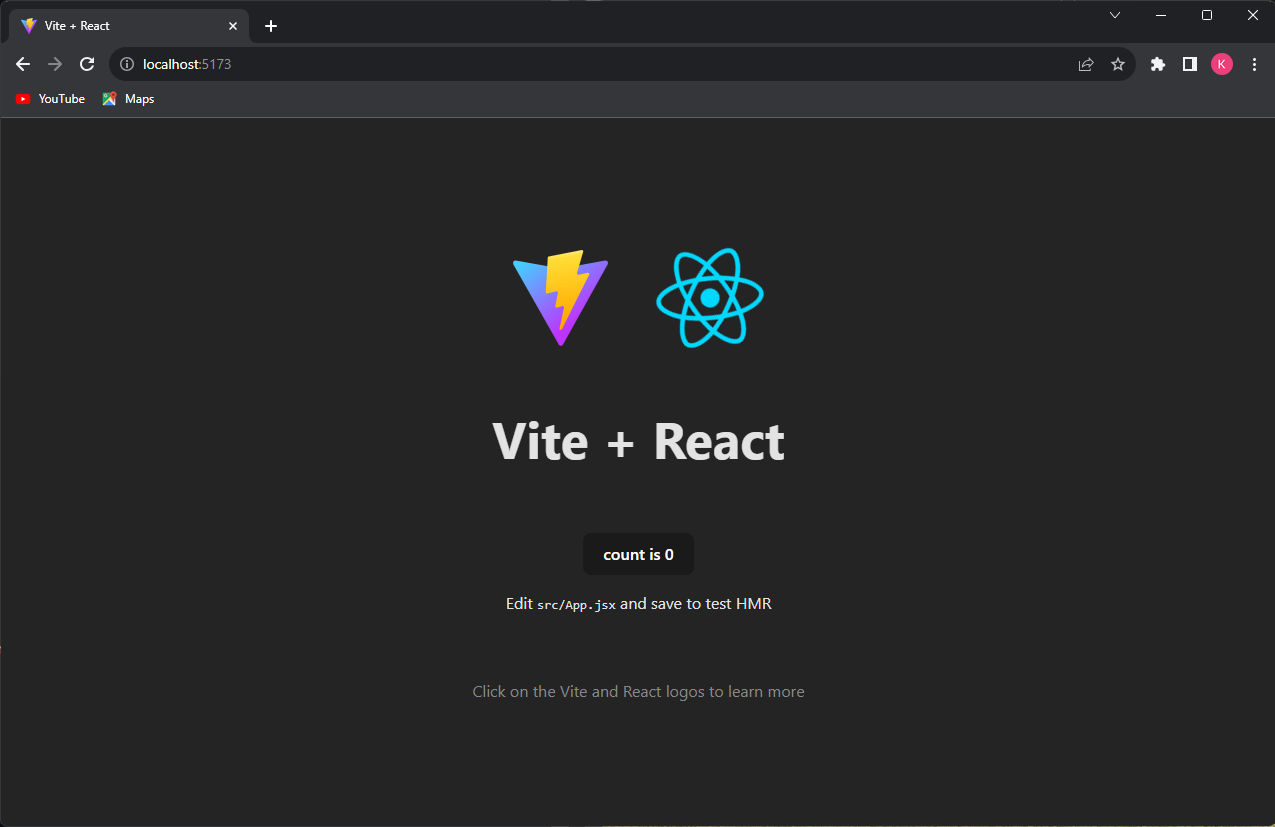
1. Create a new React Project called timer using Vite npm create vite timer

[](https://private-user-images.githubusercontent.com/102991550/270452900-c493ce20-f142-4276-8af1-dafc02682578.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDUyOTAwLWM0OTNjZTIwLWYxNDItNDI3Ni04YWYxLWRhZmMwMjY4MjU3OC5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT1hZWE5NTY0YjBjYTBlNWU3YjRlMTY2NmY5MDFkMmY0YjBhYWI0NTQ0YjA0YzdlNDU3NGQ0ZTkwMTY4M2NhNGU5JlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.vNyalvIfBnVKiY8rVw_RoXW9BCubaWeDpQ2yt59_SV4)

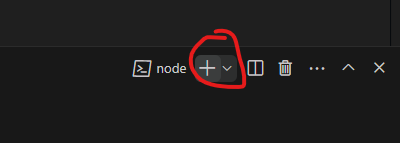
1. Type cd timer to navigate into the timer folder and run npm install
2. This will install all of the dependencies for the project.
3. We are also going to add bootstrap to this project. Run npm install bootstrap

[](https://private-user-images.githubusercontent.com/102991550/270448385-b99ce0cc-f70b-46b5-b745-f88d2af37d76.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDQ4Mzg1LWI5OWNlMGNjLWY3MGItNDZiNS1iNzQ1LWY4OGQyYWYzN2Q3Ni5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT0zMmI2NDMwMTc3OTQ4YmMwMTQ3NTg0YWQ5NDhlNjUxNGQ4YjU5MTVlZmZmZmRmNDNlMzZjMmU5ZjVmODllODIwJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.CC4bZVuiApxlb_8AYoWzn2Wn8_jV_PutoEFFr_X15Is)

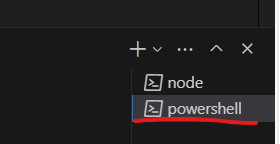
1. type npm run devto launch the react app and take a screenshot. Save in the screenshots dir.

[](https://private-user-images.githubusercontent.com/90283966/271434067-376e4079-856c-472f-a7c6-dad9310e3804.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..KGhrRw0juhpd8TvKxq1vUgb7tBYxnFHo79nR15T-zro)

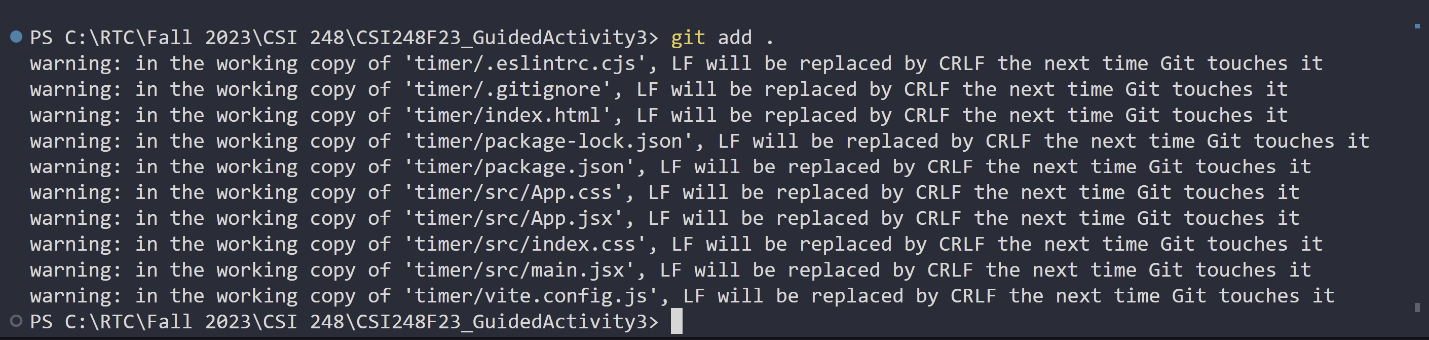
1. Once the development server is running in your terminal you will need another terminal to create commits.
2. Click the + icon in the corner of your terminal to launch another instance of the terminal.

[](https://private-user-images.githubusercontent.com/102991550/270450250-248f26c9-9646-41bb-ac18-4be64b8de08f.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDUwMjUwLTI0OGYyNmM5LTk2NDYtNDFiYi1hYzE4LTRiZTY0YjhkZTA4Zi5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT0zMTRiZjc5NzcyMGUxNDBmNDUzM2UzOThhYzc5YzA4ZDE2YWVjM2Y1OWY3NGE3MDhjMDYwYWExZWI3ZThhNGZkJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.RypSziU2usIjTq4hScWMtDmaD8b1bQJSOLQzNqZKNAQ)

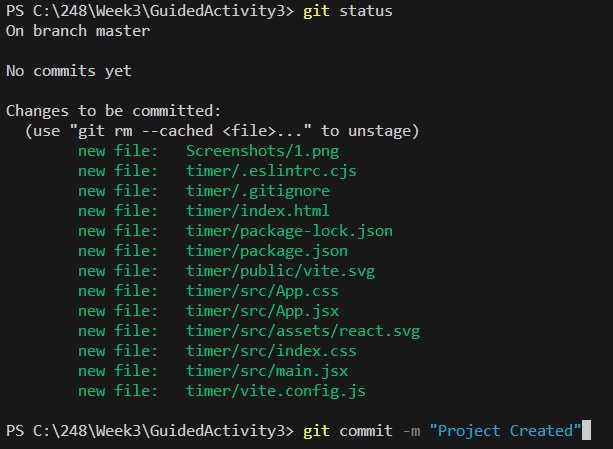
1. You will now have two terminals running, one with the Node development server and another where you can run git commands.
2. Click the new terminal and run the following:

[](https://private-user-images.githubusercontent.com/102991550/270450501-e166695c-09bc-40a8-bba3-a78c21f12d43.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDUwNTAxLWUxNjY2OTVjLTA5YmMtNDBhOC1iYmEzLWE3OGMyMWYxMmQ0My5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT1kN2M1MzJlZjMyMGE3MzgxYzc3YTE2NDUwOGIxMDViNWRjMTg0Mjc1MDE5YzM2ZWRkY2EzNDYwOTY2MjRlZjQxJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.QiDss8luBISCzEHeq-i3eD5UgT6M6_9o-WiFxBmf6MY)

1. Type git add . to stage all updated files.

[](https://private-user-images.githubusercontent.com/90283966/271434140-54a283bd-ce71-4e0d-b1ed-0ad262b7a8b6.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..Ruva_vUklQY5v3o_H717omEX4KjUOo-agYMN9mlmX84)

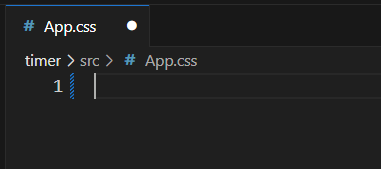
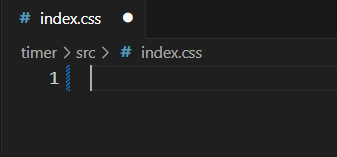
1. Type git status to see all files ready for commit.

[](https://private-user-images.githubusercontent.com/102991550/270453804-1586e1d8-e002-49a9-beb2-eb82f890e884.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDUzODA0LTE1ODZlMWQ4LWUwMDItNDlhOS1iZWIyLWViODJmODkwZTg4NC5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT03NDAwMTBiMTZiNDIwYTNlYmE2MmU5NGZhOWFiOWEzODVkYjY0YzdkODM3M2U5NmJmY2VlNzU4MWY0NDIyYzAzJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.1EmVp_T4mduWjha5Q9Dbipvuq-rcYPrM13ubrI8cIqQ)

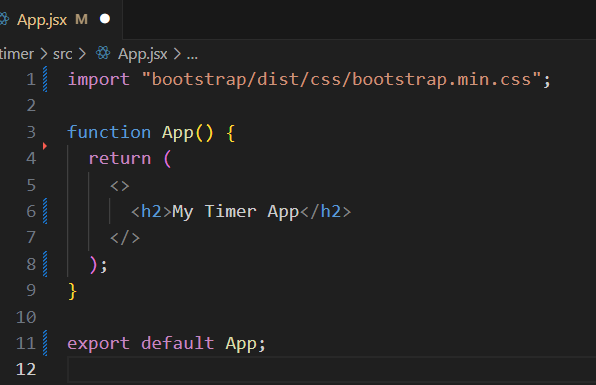
1. Type git commit -m "project created"
2. Type git push

[**Guided Activity 3 - Creating the Timer App**](https://github.com/EmeryCSI/CSI248F23_GuidedActivity3#guided-activity-3---creating-the-timer-app)

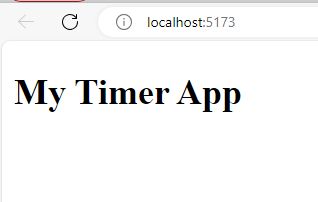
1. First let's delete the unnecessary template files that Vite provides.
2. Vite includes a lot of built-in css styling for the template page that we are not going to use.
3. In the src folder open App.css and delete everything inside of it.
4. Do the same for index.css
5. If you would like to do styling at a later time you can add to these files.

[](https://private-user-images.githubusercontent.com/102991550/270455807-6c5d8a08-cc3b-484e-9b2b-b88c39a0d228.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDU1ODA3LTZjNWQ4YTA4LWNjM2ItNDg0ZS05YjJiLWI4OGMzOWEwZDIyOC5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT02NmQxMzc5YWQzMWViNTQwMjJiZDM4MzFkY2VlMDE2MzI0YmQxMmNiMDFlOGUwNDNkZDZlZjJmMDdkMTZmZjY3JlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.i16sSntb6oN9CZgWnZzwGF8BdpxJ6UaRhUUEwQDdU30) [](https://private-user-images.githubusercontent.com/102991550/270455865-cdeb2960-6cd6-4ea7-940a-a8c6b9c05231.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDU1ODY1LWNkZWIyOTYwLTZjZDYtNGVhNy05NDBhLWE4YzZiOWMwNTIzMS5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT1jMGUxMjdkODVkNmZmODhmMjlkZTM0MTlkNjFhYjdiYjVlMWYwM2M0NzQxODZmODUzYjRiYjEyMzdlYTk1NWZlJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9._L7mNButuT-rAcS0iHs4QMXizIA-2rVfNMbUNbwYD1c)

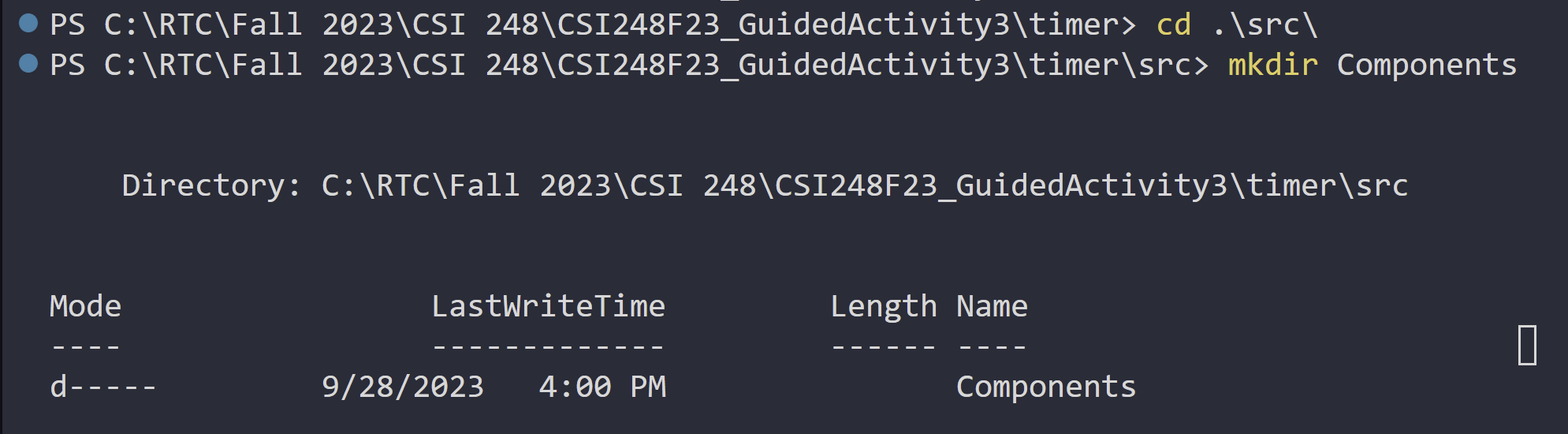
1. Inside of App.jsx delete all of the code and replace it with the following:

[](https://private-user-images.githubusercontent.com/102991550/270460388-c77d2039-1650-4162-80c5-ceaf7fd44655.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDYwMzg4LWM3N2QyMDM5LTE2NTAtNDE2Mi04MGM1LWNlYWY3ZmQ0NDY1NS5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT1iYTc1NWJjODRmNGUxYjgxYjkxZDViM2I2OThiMGU1M2NmNWE3OWNkYmQ4ZTRiZmVmODBiOTcyOGM1OGIyZTFiJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.spYBq_GPxJBNbOYGxHxySEK2Oxpb9YIgMo5NMvZHQAo)

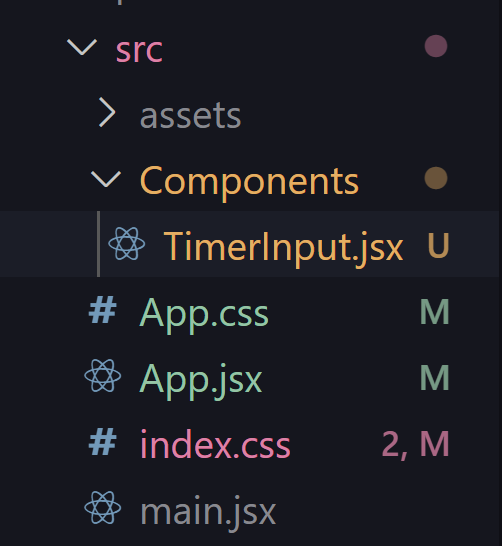
1. Take a screenshot of the output and save in the screenshots directory. Your app should now look like this:

[](https://private-user-images.githubusercontent.com/102991550/270456317-6865539f-1635-444a-ad57-5920c4222638.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDU2MzE3LTY4NjU1MzlmLTE2MzUtNDQ0YS1hZDU3LTU5MjBjNDIyMjYzOC5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT0yNzY4MWU3ZjQwMmFlMmQxY2M4OTc3ZGFiOGVhZDFhMzYwNzA3ZDU4YmMzMGVhOGE3NTFjM2I2MGQxYjFiZjAyJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.4qi7ymmdnBzkcCAuSe2EXgzXIsaEt1kzABnS9jA75rc)

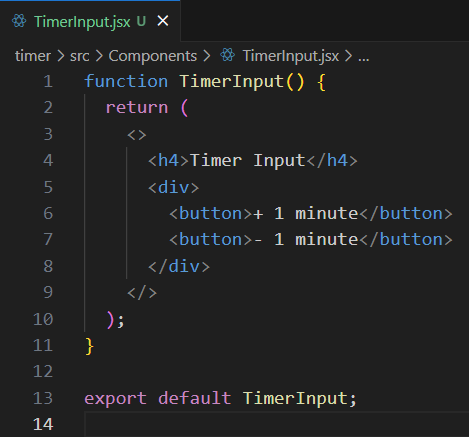
1. First lets add a component with a couple of buttons. These will be used to set the duration of the timer.
2. Open Terminal and cd into the the src folder. Type mkdir Components to create a folder named Components.

[](https://private-user-images.githubusercontent.com/90283966/271436563-e3b365c6-ffd6-42fc-9931-a6b5817a3ab2.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..6fDu0q9cn0um5egj7v222GKMFTvRFj1t1JreMfmPdKY)

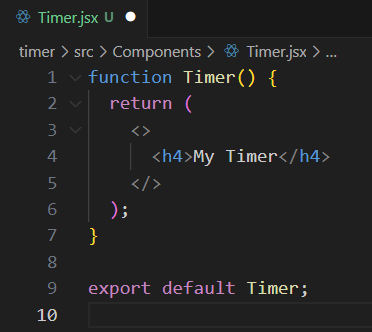
1. In the Components folder, make a file called TimerInput.jsx. This is the component where the user will set the duration of the timer in minutes.

[](https://private-user-images.githubusercontent.com/90283966/271438454-bc4783d4-6522-4fe6-8526-ee6f21a84b05.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..RDRkLFCArGmJXw1916XvLy4n-feL9gezKehUKmGboTk)

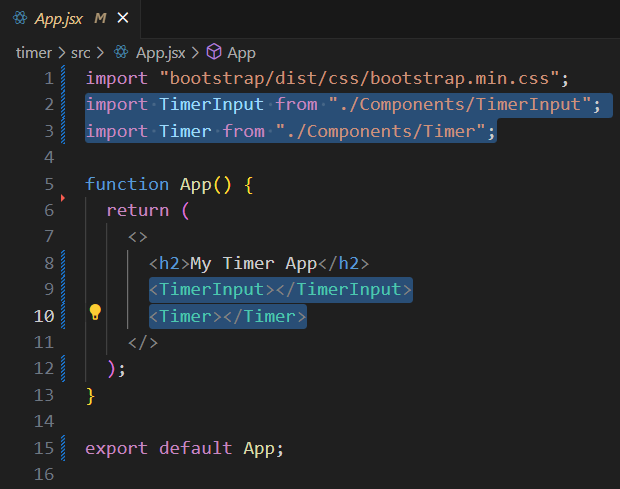
1. Type the following code into TimerInput.jsx:

[](https://private-user-images.githubusercontent.com/102991550/270461455-e05a93cd-36a4-4f89-b5ec-72a9fb02bf89.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDYxNDU1LWUwNWE5M2NkLTM2YTQtNGY4OS1iNWVjLTcyYTlmYjAyYmY4OS5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT03OGE3MDYyYTZkZDcwNTQ4ZjA1MGIyMWZiZmM4NTM4MGQ4MDg2ODZjMmJiMTUzMzhhZTVhMzdlNGU2ODlkZTg2JlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.GQ3oUETbO4rOEGVZSLy4P5ithBcRjipaJbM7uevw9OU)

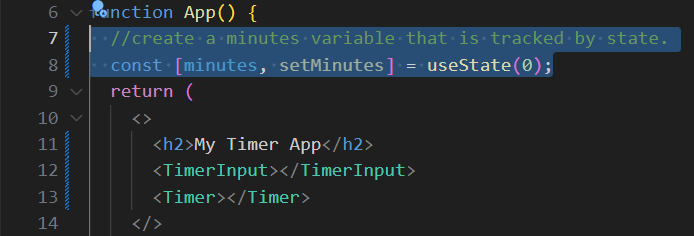
1. In the Components folder, create another file called Timer.jsx. This is the component where the actual countdown will occur.

[](https://private-user-images.githubusercontent.com/102991550/270462967-db73e218-e169-4d21-b9ee-32f115c07f08.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDYyOTY3LWRiNzNlMjE4LWUxNjktNGQyMS1iOWVlLTMyZjExNWMwN2YwOC5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT01MjZiOGVkMjU1ZWY4YzU3NTE0ZjFhNmI0ZWI0YzYxOThhY2QyYTRhMTU4NTE3ZDMxNThhYWRiNDY4ZDlkMTA3JlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.avo5mxTZ6eZPgwgTvYVDCaL0BnRvclO9YyaBcSYHC3k)

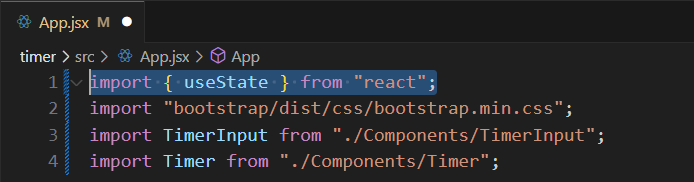
1. Modify App.jsx to import the TimerInput and the Timer Component:

[](https://private-user-images.githubusercontent.com/102991550/270463096-2f80bb48-6239-4a58-ba45-564eb577622a.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDYzMDk2LTJmODBiYjQ4LTYyMzktNGE1OC1iYTQ1LTU2NGViNTc3NjIyYS5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT02NjAyY2M1NzczZTQwZTA3NWNjNDI4MmQ0MjM5YjIzM2U1M2FlNDI5MzBmNzYyMmE5ZjliOTE5YmQ1MTM5MDY5JlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.uSVRKLx4YwSiLjvuTa_V9dvyOMYMCqs8ojjZAc6OQ6E)

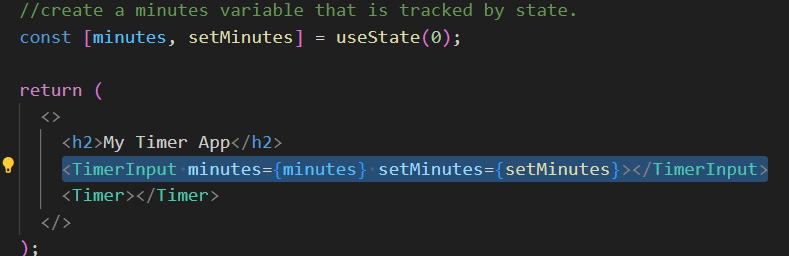
1. We now have a very interesting scenario. The Child components (TimerInput and Timer) both need access to the minutes variable.
2. When you have a variable that needs to be accessed by multiple children, you should store that variable in a common parent (App.jsx)
3. App.jsx will track the number of minutes.
4. A callback function will need to be sent to the TimerInput via props so that it can modify the minutes tracked in App.jsx
5. The number of minutes will need to be send to the timer via props so it know how long to run for.
6. Props can only pass information from parent to child, so how can we pass information from child (TimerInput) to parent (App.jsx)?
7. We will have to use a callback functions.
8. First lets create a minutes variable inn App.jsx that is tracked by state.

[](https://private-user-images.githubusercontent.com/90283966/271441300-67388fa8-e212-4baa-8b63-190f0c10fcd1.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..cfmIRfHeOAYv67aTWAybA5C0vKowCMrOkf1q_X3xByk)

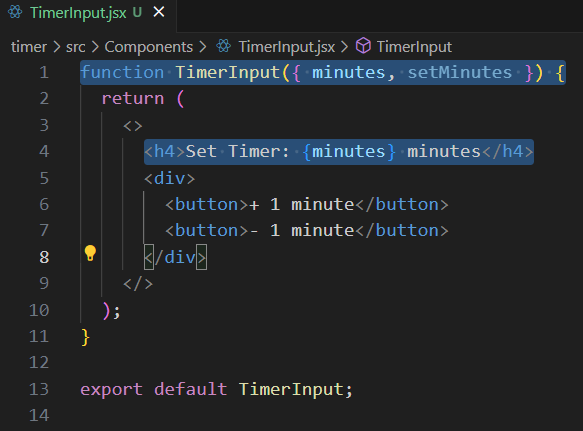
1. Import the useState.

[](https://private-user-images.githubusercontent.com/90283966/271441405-1a185e49-6da2-4ee5-aafe-dd9261b8035e.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..BHQSQ8z05fSHOUNOnHb9OXLBN2yhnFLPnT7PDhBhrp8)

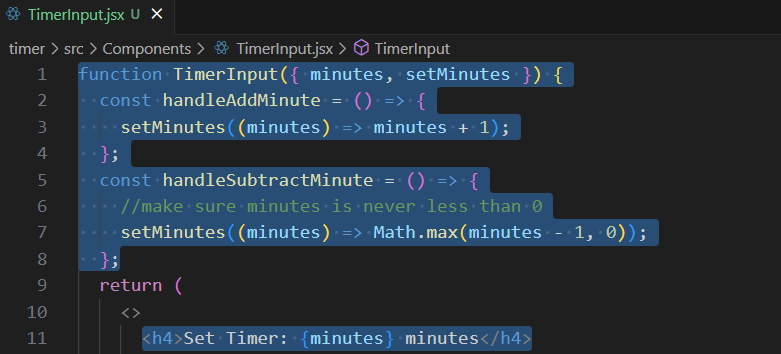
1. Now we need to pass the minutes variable and the setMinutes function down to the TimerInput component.

[](https://private-user-images.githubusercontent.com/102991550/270468263-21868bdb-6674-4df6-8d23-a1107a4ca139.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDY4MjYzLTIxODY4YmRiLTY2NzQtNGRmNi04ZDIzLWExMTA3YTRjYTEzOS5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT1mNjgxMjBkMWRhZTBkMDIzNTAxODJmODhjYjY0ZjRmYWM1NWIxMTBjOWNkMjIzNjg5Yzc4YjA1YjU1NmI0ZDczJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9._KdB9Ti6MUXYejKCyeLRIePimB2bcWQQxR2FUKGDUeU)

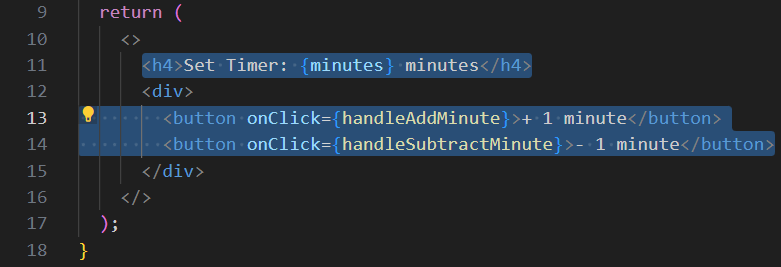
1. Inside of TimerInput.jsx lets take in minutes and setMinutes as props and use them in the component.

[](https://private-user-images.githubusercontent.com/102991550/270468723-4dd3ac60-f9bf-4ede-98fe-67b656232aee.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDY4NzIzLTRkZDNhYzYwLWY5YmYtNGVkZS05OGZlLTY3YjY1NjIzMmFlZS5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT00OTExZGI1MGJiOTE3Y2JiY2I5YzU3OWI4OTNjN2Y1NDUwMmQzMTI3ZTc0YzcxODhmZDc2ZDBjYjFlZGVjYzE0JlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.QBzOh34TEl_JNNtbOMznezDoExTWweiKWB_lsAoUxsI)

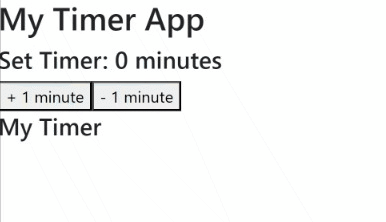
1. Next, lets create 2 clickHandler functions: handleAddMinute and handleSubtractMinute. They will fire when the buttons are clicked and call the the provided setMinutes function.

[](https://private-user-images.githubusercontent.com/90283966/271443250-47218f1b-3902-4215-81a6-2c2c6d48e81c.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..QO8Xe6hKrJNlyvpGRK8irr7Wc5Q_gA017tnN7P4iaXM)

1. Notice that these functions do not directly change the minutes variable, instead they provide a function to be called that will change them.
2. Now lets add the functions to the buttons.

[](https://private-user-images.githubusercontent.com/90283966/271443399-d0c64592-a8fd-4169-8352-2a0ace3ecfc9.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..Zy8TIaoiynsoY6_2nWTS7epFxwZSOFrDmCV866ami1c)

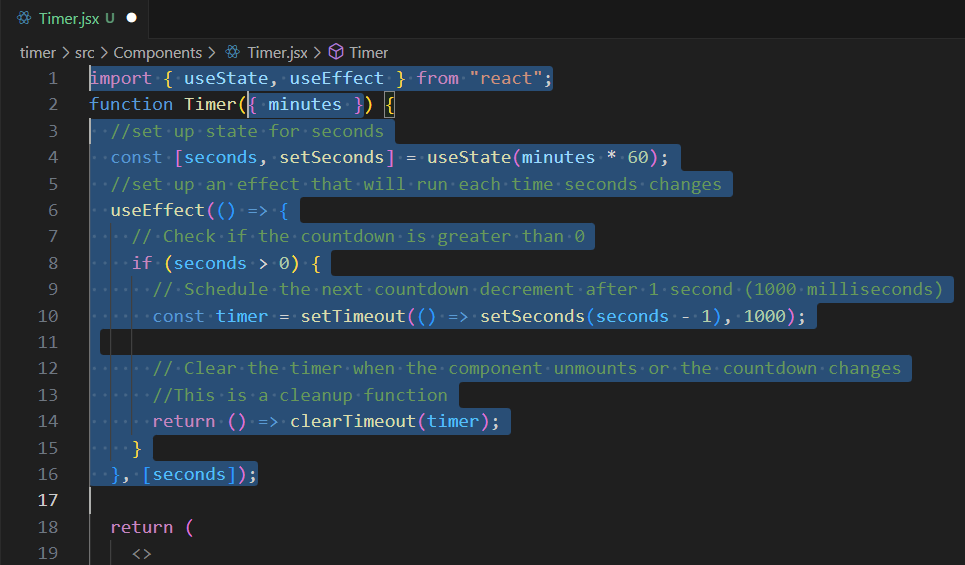
1. At this point your buttons should be functioning and updating the number of minutes. Take a screenshot and add to the screenshots folder.

[](https://private-user-images.githubusercontent.com/90283966/271444180-fb5049b0-4aa9-42d0-ae63-045a2080e9fe.gif?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..KvA8eGQrDTKtsX0gxLmADpw3D6KcOwI7ukKe6pYHtLM)

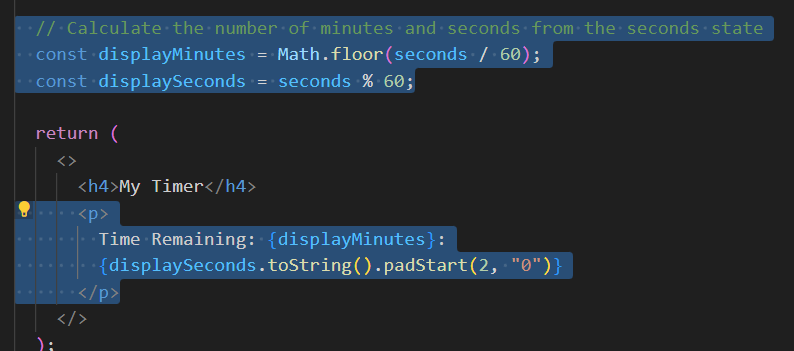
1. Our TimerInput Component is complete. Let's create a commit and push to git
2. git add .
3. git commit -m "TimerInput Component Working"
4. git push

[**Guided Activity 3 - Creating the Countdown Effect**](https://github.com/EmeryCSI/CSI248F23_GuidedActivity3#guided-activity-3---creating-the-countdown-effect)

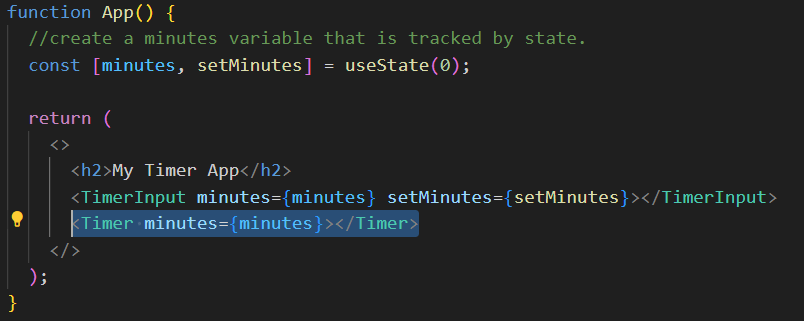
1. Let's work on the Timer Component.
2. This component is going to take in a number of minutes from App.jsx and start a countdown based on those minutes.
3. Inside of the Timer Component we are interested in the number of seconds, so we will track those with state.
4. Additionally we will need to set a timer that will reduce the number of seconds every 1000ms.
5. Add the following code at the top of Timer.jsx

[](https://private-user-images.githubusercontent.com/102991550/270473761-20be3037-5170-42ca-84fb-44143cfd2a67.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDczNzYxLTIwYmUzMDM3LTUxNzAtNDJjYS04NGZiLTQ0MTQzY2ZkMmE2Ny5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT00NDNlMDFlMDZlY2M0Y2IzZDA1ODczMDNiZGNkYzM1MWM3NzFhYjU3YWUxZDViZGMzY2NkN2VmNjUzNmM4OTllJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.hBOvpAWrLvrFb4ddhSdvZamXbvCEkSagF205_0u6q2I)

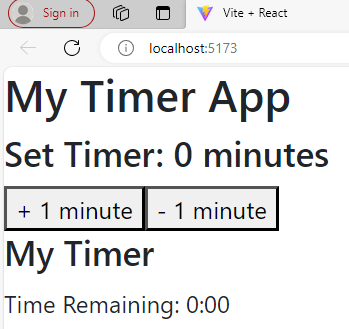
1. We also need to calculate the minutes and seconds remaning to display them to the user.
2. These variables will automatically recalculate each time the seconds changes.
3. This is because the seconds variable is tracked by state. When it changes, a re-render of the component is triggered.

[](https://private-user-images.githubusercontent.com/102991550/270473939-d93828ad-9e0c-4af4-8da5-6f301d7b91c9.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDczOTM5LWQ5MzgyOGFkLTllMGMtNGFmNC04ZGE1LTZmMzAxZDdiOTFjOS5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT0wNGRhM2Q4NmFhYmNmNTA5OWMzNTVkNTVlOWU5YTI0YzQzOGMzMTZiMzIxYTE0ZDVhNmE3NzI5NjRkZDY3NGI3JlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.zUJq6mtENPxNInNYRyqROKxnQgNwE8la-6S4kR21hbg)

1. Now lets modify App.jsx to pass the minutes to Timer.jsx

[](https://private-user-images.githubusercontent.com/102991550/270474668-6b0389a8-06fb-4b38-adeb-ce8bd99be726.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDc0NjY4LTZiMDM4OWE4LTA2ZmItNGIzOC1hZGViLWNlOGJkOTliZTcyNi5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT0zY2VkYzFlMjFiZWM2N2M0MTJiMzRlMjU5YTYzYzYxYjJhNjRjM2UwNzcxMjVhYTE5ODhhY2Q3Y2UxM2IxNzY5JlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.LvA55rAvRaSAGlO_oWz59e1HRj2OD1-olwSMMSxSMJM)

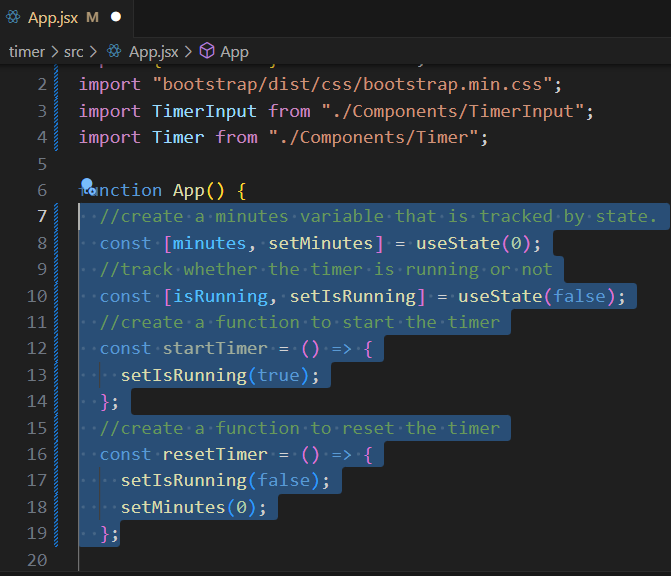
1. Your app should now look like this.

[](https://private-user-images.githubusercontent.com/102991550/270474771-b23da3ce-8777-40e6-90af-921181df1820.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDc0NzcxLWIyM2RhM2NlLTg3NzctNDBlNi05MGFmLTkyMTE4MWRmMTgyMC5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT0zMDRhNTMyN2VhNTg5ZjNiNGZlNTFmZTMwODdmOGY0ZThiMGNkNzI2MWVkOTg5MDY0ZWQ5NjlkMmU4ODQ0ZWMwJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.kpbr5xuWdYvHGG1Qp9jaO5yKTbMh2QIoDcgZ-nBBpd8)

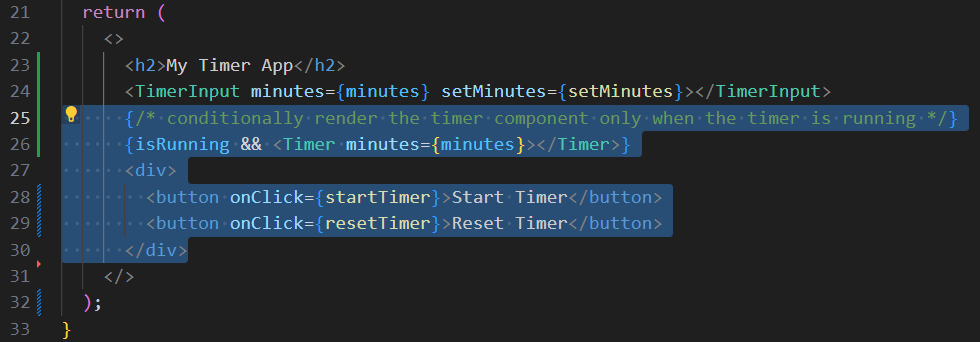
1. Take a screenshot of the output and add it to ScreenShots
2. Our Timer Component is now complete
3. git add .
4. git Commit -m "Timer Component Complete"
5. git push

[**Guided Activity 3 - Finishing up App.jsx**](https://github.com/EmeryCSI/CSI248F23_GuidedActivity3#guided-activity-3---finishing-up-appjsx)

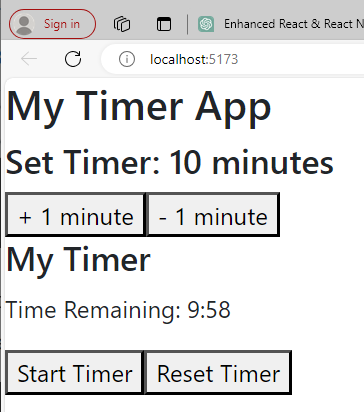
1. Now we simply need to functionality to start and reset the timer.
2. We need to track whether the timer is currently running or not. If it is running we will render the Timer component.
3. We will also need functions to start and reset the timer.
4. Modify App.jsx with the following:

[](https://private-user-images.githubusercontent.com/102991550/270476898-6b89f5d3-8908-481a-8720-2d89b90ae1e3.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDc2ODk4LTZiODlmNWQzLTg5MDgtNDgxYS04NzIwLTJkODliOTBhZTFlMy5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT05ZTk5OWNkOWMxM2ZmNGRlNmU0ZmVhY2EyNTYxM2M5NzA1Y2MwNTBjODhhMjVkY2VmMjE4NmQxMmFhYjVmZDMyJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.ja23jrFvXZoRpQIagMUWldMjCkpgFJjZzn3LuTYiDh8)

1. Now we only want to render the timer when isRunning is true.
2. We also need to set the buttons to start and stop the timer.

[](https://private-user-images.githubusercontent.com/102991550/270476984-ec1a7e91-86cf-4b4d-8fd7-e73024e777f5.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDc2OTg0LWVjMWE3ZTkxLTg2Y2YtNGI0ZC04ZmQ3LWU3MzAyNGU3NzdmNS5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT0yMWMxNjcwOGFjNmNkODRhYTI1MzBkZGMzOGM1Yjg5ZGUxYWFhZDRjMzFmZmNhNTViMTAyZDBiYzQ4YjFiYjc1JlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.JSHHAH29qm48xKigMSJhFAnUu40MI15xXfddft5B1ic)

1. The basic functionality of our Timer App should now be working.

[](https://private-user-images.githubusercontent.com/102991550/270477377-1b4b4b3d-2938-46d0-8089-cd70291a0af5.png?jwt=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJnaXRodWIuY29tIiwiYXVkIjoicmF3LmdpdGh1YnVzZXJjb250ZW50LmNvbSIsImtleSI6ImtleTEiLCJleHAiOjE2OTY1MzU5NTYsIm5iZiI6MTY5NjUzNTY1NiwicGF0aCI6Ii8xMDI5OTE1NTAvMjcwNDc3Mzc3LTFiNGI0YjNkLTI5MzgtNDZkMC04MDg5LWNkNzAyOTFhMGFmNS5wbmc_WC1BbXotQWxnb3JpdGhtPUFXUzQtSE1BQy1TSEEyNTYmWC1BbXotQ3JlZGVudGlhbD1BS0lBSVdOSllBWDRDU1ZFSDUzQSUyRjIwMjMxMDA1JTJGdXMtZWFzdC0xJTJGczMlMkZhd3M0X3JlcXVlc3QmWC1BbXotRGF0ZT0yMDIzMTAwNVQxOTU0MTZaJlgtQW16LUV4cGlyZXM9MzAwJlgtQW16LVNpZ25hdHVyZT1iMGM5OGFkZTU2OThhYzExMGRmZTdkYWQwYTI5ZDJlOWRiY2YwNmVlNzkwNGI1YjllMzQwMWRkMzdiZjM3NmMyJlgtQW16LVNpZ25lZEhlYWRlcnM9aG9zdCZhY3Rvcl9pZD0wJmtleV9pZD0wJnJlcG9faWQ9MCJ9.jH0_9j7xBjd5fygCC648RtwhIEp05wlSnI8lac4gYxk)

1. Select a time and start the timer. Take a screenshot and add to the screenshots folder.
2. Our application is not very exciting looking.
3. Use the built-in boostrap classes or add some code to App.css to change the appearance.
4. When done create a new commit with Guided Activity 3 Complete.
5. git add .
6. git commit -m "Guided Activity 3 Complete"
7. git push

Feel free to message your instructor or the TA on Canvas if you have any questions.