These are other notes on View from the Reaction-Timer Project  
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GitHub Repo:  
<https://github.com/lionel5116/VueReactionTimerProject.git>  
  
**Tip**: Another tip on emitting methods  
**Tip**: Passing props (just a refresher)  
**Tip**: Adding Bootstrap to Vue  
Tip: Adding Routing in Vue 3  
Tip: Refactoring the app for the routing and nav  
Tip: Deployment and routing  
Tip: Vuex (State Management) in Vue  
Tip: Using axios in vue  
Tip: Running unit tests with jest an vue tools  
Tip: Removing the white space above the navigation  
Tip: Navigation in Vue (to another component with a button click)  
Tip: Bootstrap Form (Bootstrap 5)  
Tip: Building a bootstrap table from scratch with regular bootstrap  
  
  
**Tip**: Another tip on emitting methods  
If you look below, we are emitting a method that we will name ‘end’ in the parent component. Notice how we are passing data along with it.  
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Now over in our parent component:  
Notice below how we are making reference to the emitter by its name (‘end’)  
We are pointing it to the method “endgame”  
In the method, we are specifying an argument as a parameter for the function. When created the emitter, we passed in some data, so what that means is that the method create automatically receives that data as it’s parameter.  
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**Tip**: Passing props (just a refresher)  
We declare props

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Then to receive the prop from the parent:

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**Tip**: Adding Bootstrap to Vue  
In vue 3 , you have to use bootstrap 5  
You can install bootstrap the same way (regular npm) as any other node.js project  
https://getbootstrap.com/docs/5.0/components/navbar/

npm i bootstrap@5.0.1

npm install --save @popperjs/core

Then In main.js

import "bootstrap/dist/css/bootstrap.min.css"

import "bootstrap"  
  
Create a nav component

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You can then use bootstrap anywhere in your application. Just refer to the bootstrap docs  
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Tip: Adding routing in Vue 3  
https://www.vuemastery.com/blog/vue-router-a-tutorial-for-vue-3/  
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In main.js

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In your Custom Nav Component

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For the home link

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You don’t need a route  
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Tip: Refactoring the app for the routing and nav  
I refactored the app to correct the navigation  
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Graphical user interface

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Background pattern

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Tip: Deployment and routing  
When I deployed the app, the routing worked  
  
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Also the addition to vue.config also fixed the deployment issue with the paths as well  
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Tip: Vuex (State Management) in Vue  
This came from this video  
<https://www.youtube.com/watch?v=nFh7-HfODYY>  
  
To add vuex to your project  
npm install vuex@next –save  
  
Then we can create our store  
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To add our store, we make a reference in our main.js file

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Now every component in our application has access to our store  
  
We will demonstrate two types of actions in our store

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commit: allows to fire an action in your store  
dispatch: allows you to fire an action in our store  
To fetch data from our store we use the $store.state.<property>  
  
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Like stated above to change some state in our store, we can use the mutations section to fire a method the update state.  
The actions section allows us to fire asynchronous code (api) and change a state’s property  
(Tip: Using axios in vue)  
npm install axios

Tip: Running unit tests with jest an vue tools  
Website for unit test examples  
<https://v2.vuejs.org/v2/cookbook/unit-testing-vue-components.html?#Why-test>  
  
Run these commands to set up unit testing

<https://v1.test-utils.vuejs.org/installation/#using-vue-test-utils-with-jest-recommended>

vue add unit-jest

npm install --save-dev @vue/test-utils

I created a component to unit test  
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I added some test code  
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Ran the test command to test one component

npm run test:unit foounit  
  
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Tip: Removing the white space above the navigation  
<https://stackoverflow.com/questions/58583789/how-to-remove-white-space-over-the-bootstrap-navigation-bar-in-vue-js>

The default styling had a margin-top: 60px

One you remove that:

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Tip: Navigation in Vue (to another component with a button click)  
<https://router.vuejs.org/guide/essentials/navigation.html#navigate-to-a-different-location>  
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Tip: Bootstrap Form (Bootstrap 5)  
https://getbootstrap.com/docs/5.0/forms/layout/  
Look here for form layout options  
For Form Validation (out of the box input field validation) :  
https://getbootstrap.com/docs/5.0/forms/validation/  
  
  
For rows and columns:  
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For a form:  
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Tip: Building a bootstrap table from scratch with regular bootstrap  
This example came from this article  
https://blog.logrocket.com/table-component-from-scratch-vue-3-bootstrap/

In the end, you do get this:

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Components:  
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Using Static Data  
  
Using a Database – API Call  
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Graphical user interface

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