Live Coding Workshop: Setup Rollbar Error Monitoring

Session Duration
1 Hour

Coding Workshop Topics

0 Create New Vue TS Project

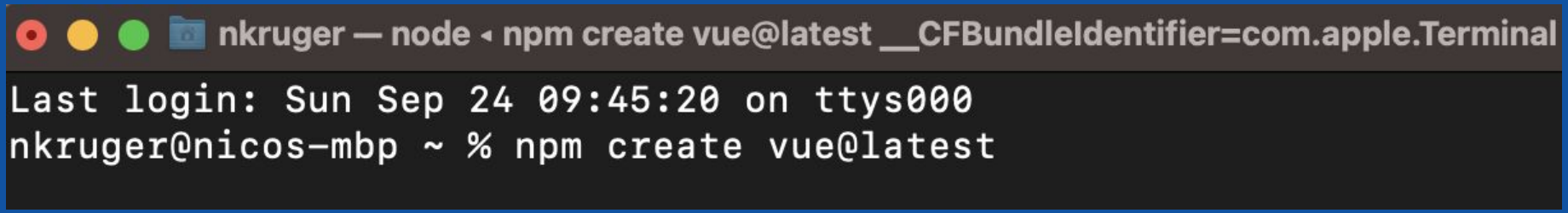
1 Create a Rollbar Account (Free)

2 Integrate Your Application With The Rollbar SDK

3 Send Handled And Unhandled Errors To Rollbar

4 Add Custom Payload Data To Your Configuration

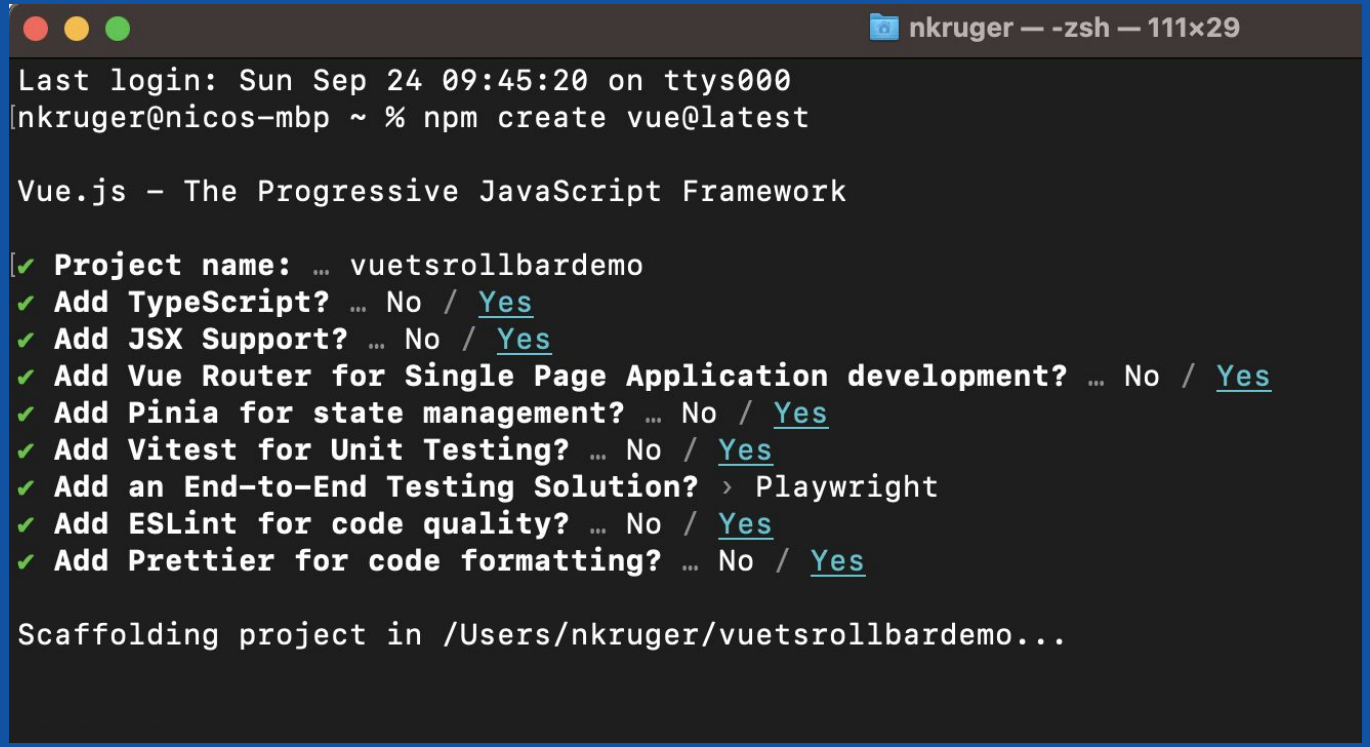
0 Create New Vue Project



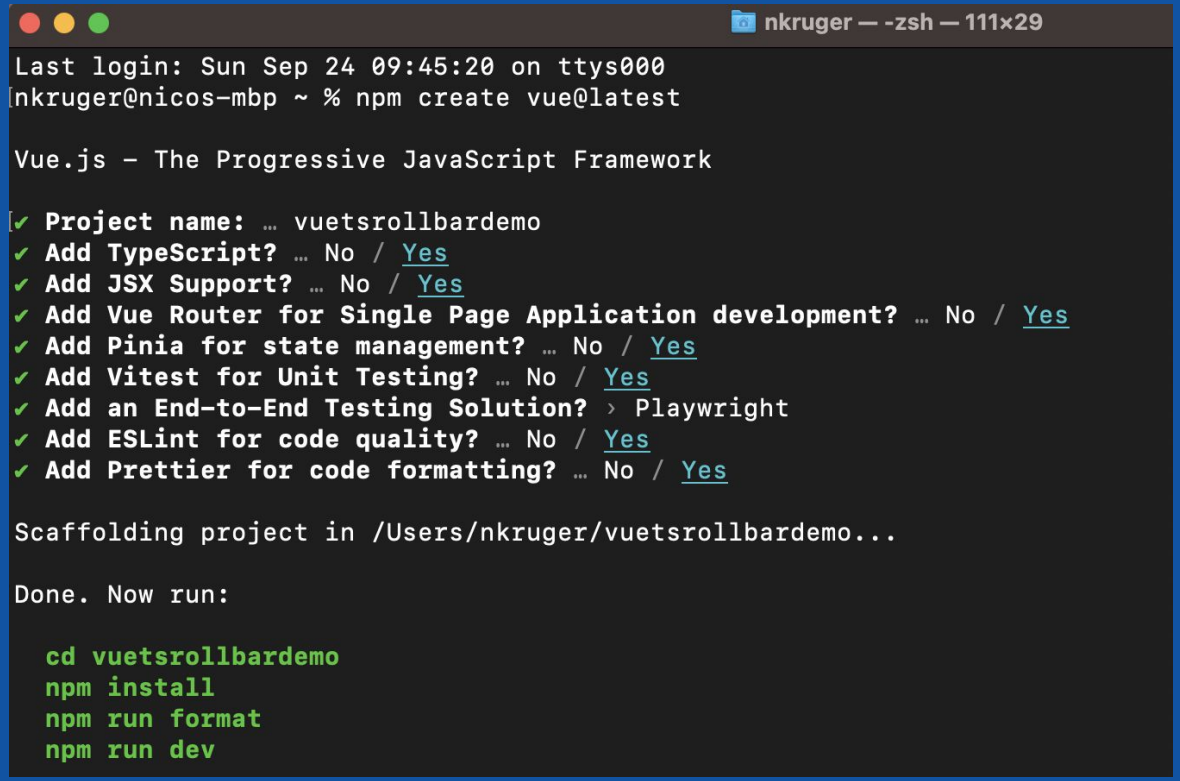
Project Name

vuetsrollbardemo

0.1 Select Project Options



0.2 Success! New Project Created



0.3 Let’s complete, npm install

```
  cd vuetsrollbardemo
  npm install
  npm run format
  npm run dev

[nkruger@nicos-mbp ~ % cd vuetsrollbardemo
[nkruger@nicos-mbp vuetsrollbardemo % npm install

added 440 packages, and audited 441 packages in 30s

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

found 0 vulnerabilities
```

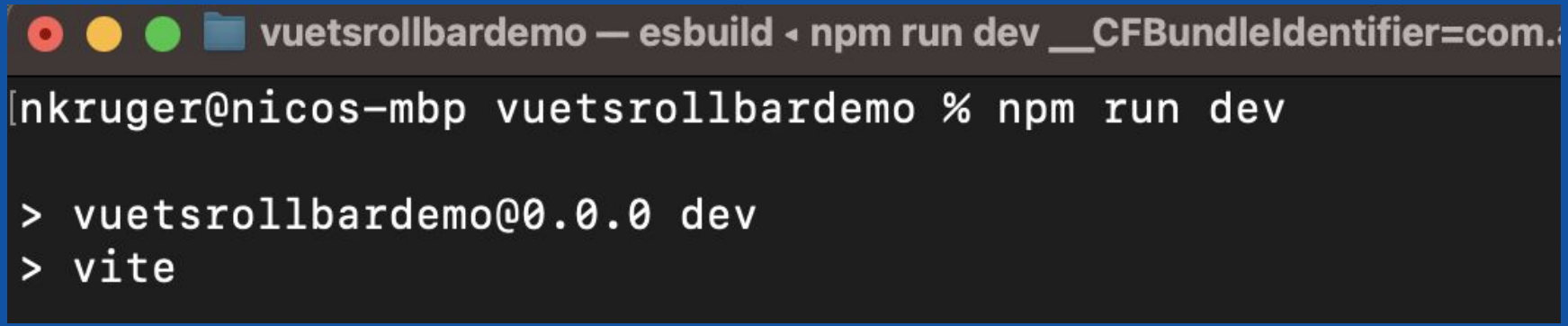
0.4 Let’s complete, npm run format

```
nkruger@nicos-mbp vuetsrollbardemo % npm run format

> vuetsrollbardemo@0.0.0 format
> prettier --write src/

src/App.vue 379ms
src/assets/base.css 16ms
src/assets/main.css 5ms
src/components/__tests__/HelloWorld.spec.ts 23ms
src/components/HelloWorld.vue 61ms
src/components/icons/IconCommunity.vue 7ms
src/components/icons/IconDocumentation.vue 5ms
src/components/icons/IconEcosystem.vue 5ms
src/components/icons/IconSupport.vue 3ms
src/components/icons/IconTooling.vue 4ms
src/components/TheWelcome.vue 23ms
src/components/WelcomeItem.vue 16ms
src/main.ts 7ms
src/router/index.ts 13ms
src/stores/counter.ts 11ms
src/views/AboutView.vue 4ms
src/views/HomeView.vue 3ms
nkruger@nicos-mbp vuetsrollbardemo %
```

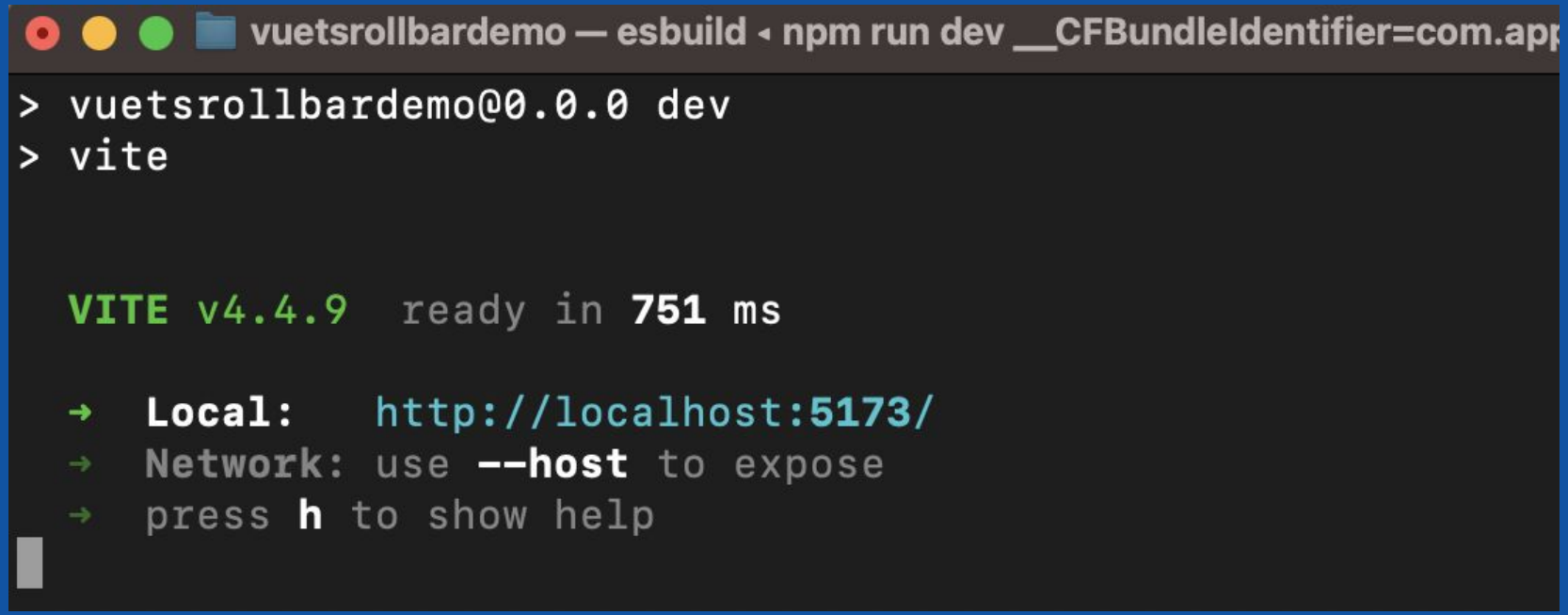
0.5 New Directory Permissions!

Ensure your have read / write permissions to the newly created directory. As we will be adding files, modifying files.

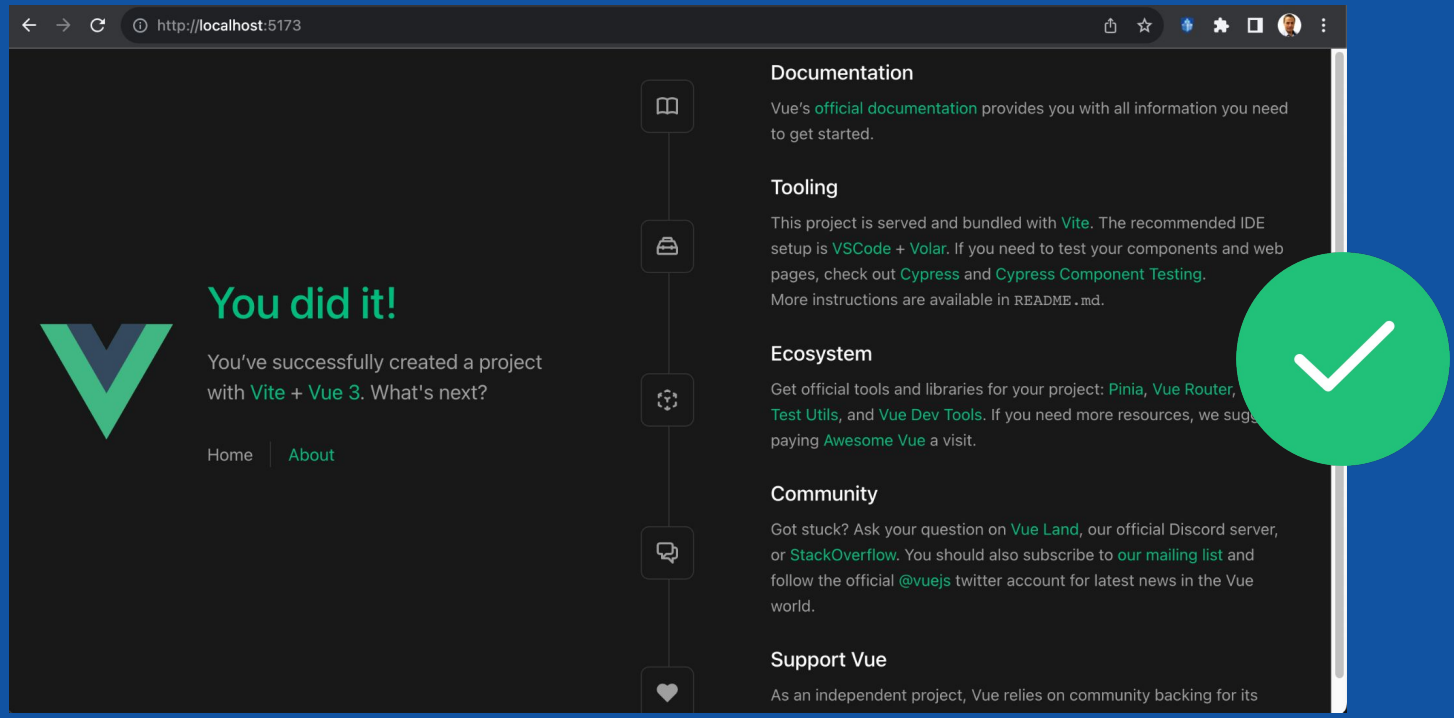
0.6 Let's Run It!



0.7 Success! Compiled And Running

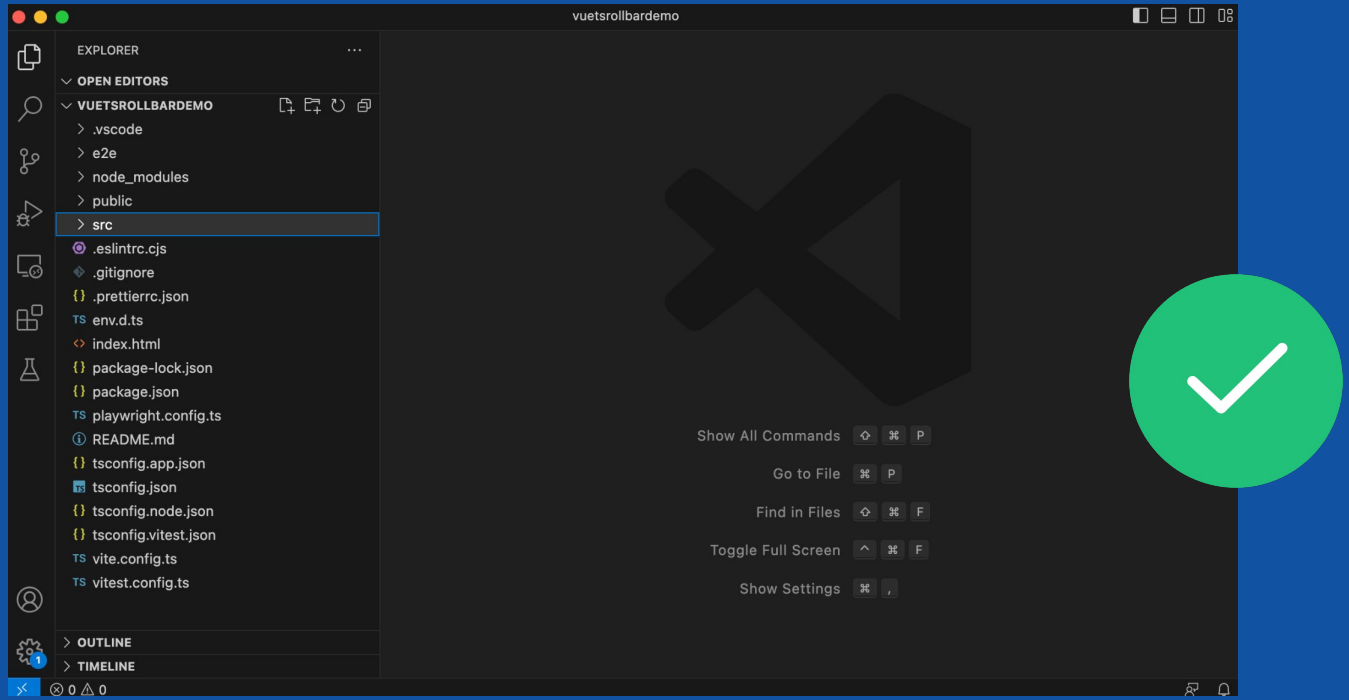


0.8 Open Browser >> https://localhost:5173



0.9

Open Code Editor For Project...



Progress Tracker

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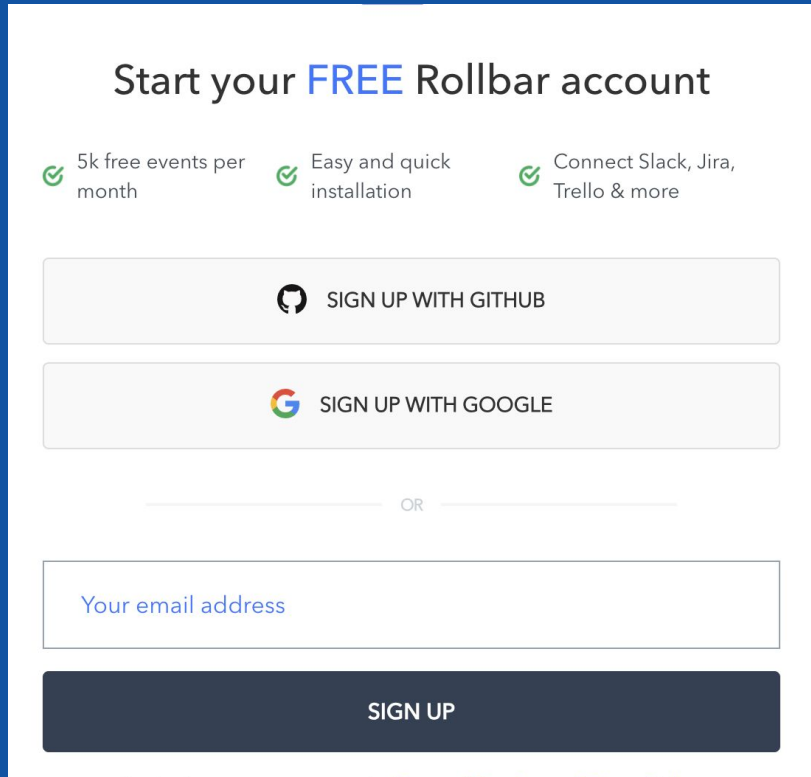
5 Min Pause

Is Everyone Ready To Proceed?

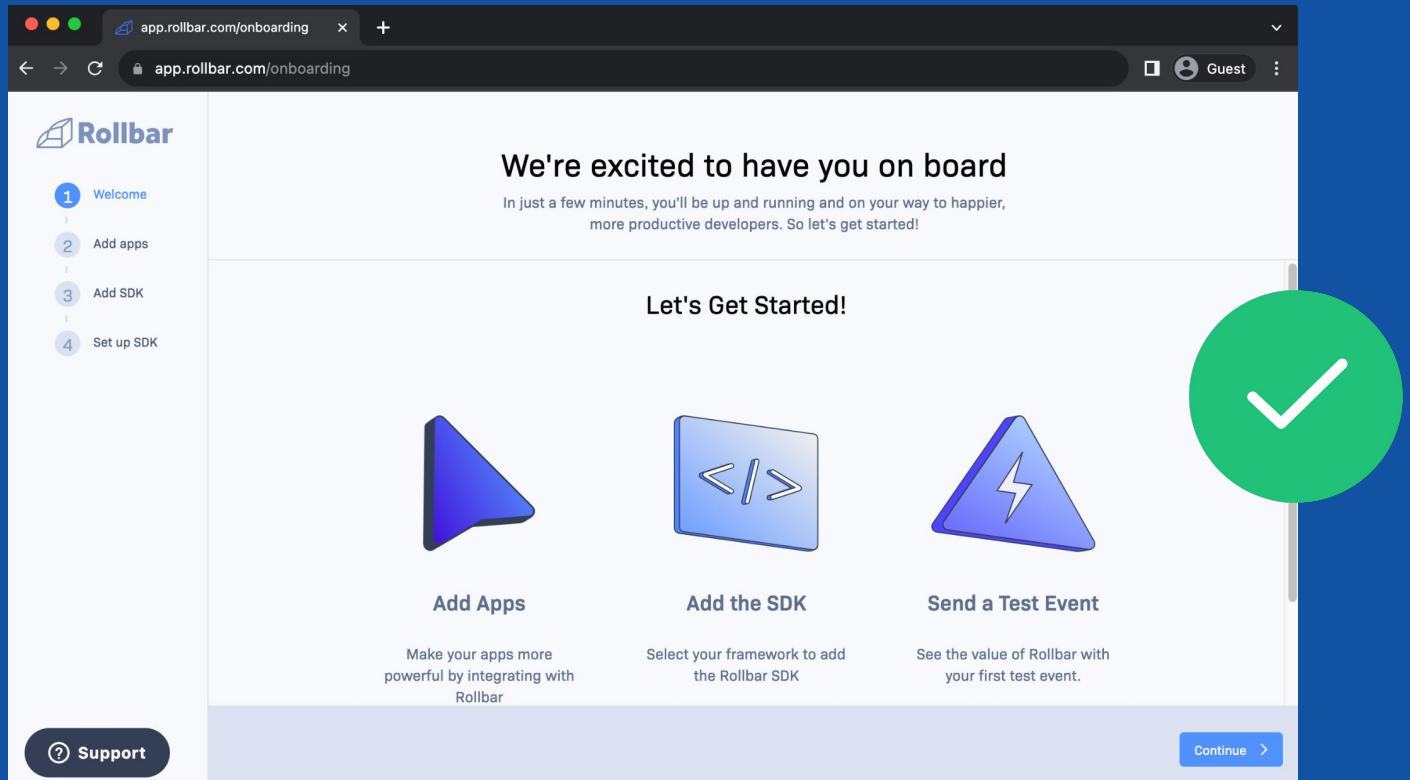
Have Enough Coffee?

1 Create a Rollbar Account (Free)

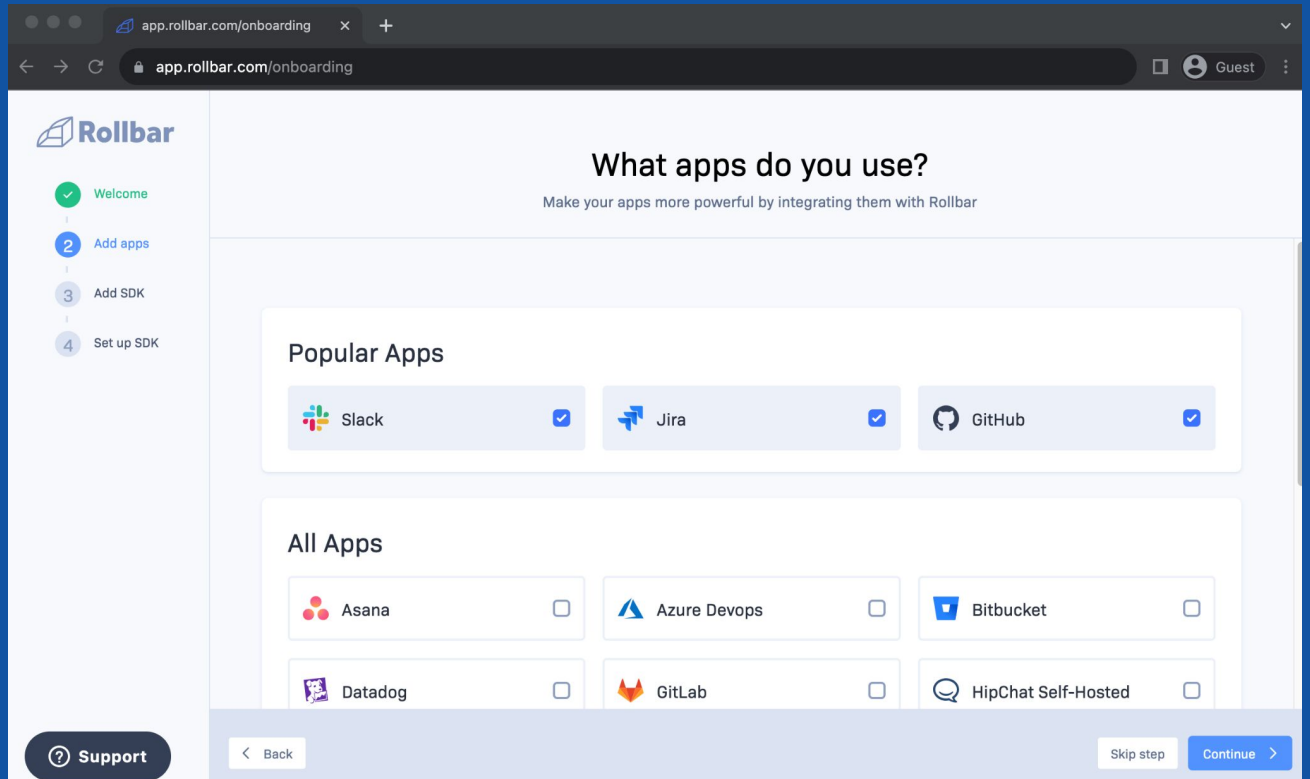
Use This Sign-Up URL:
https://rollbar.com/errorpush-promo



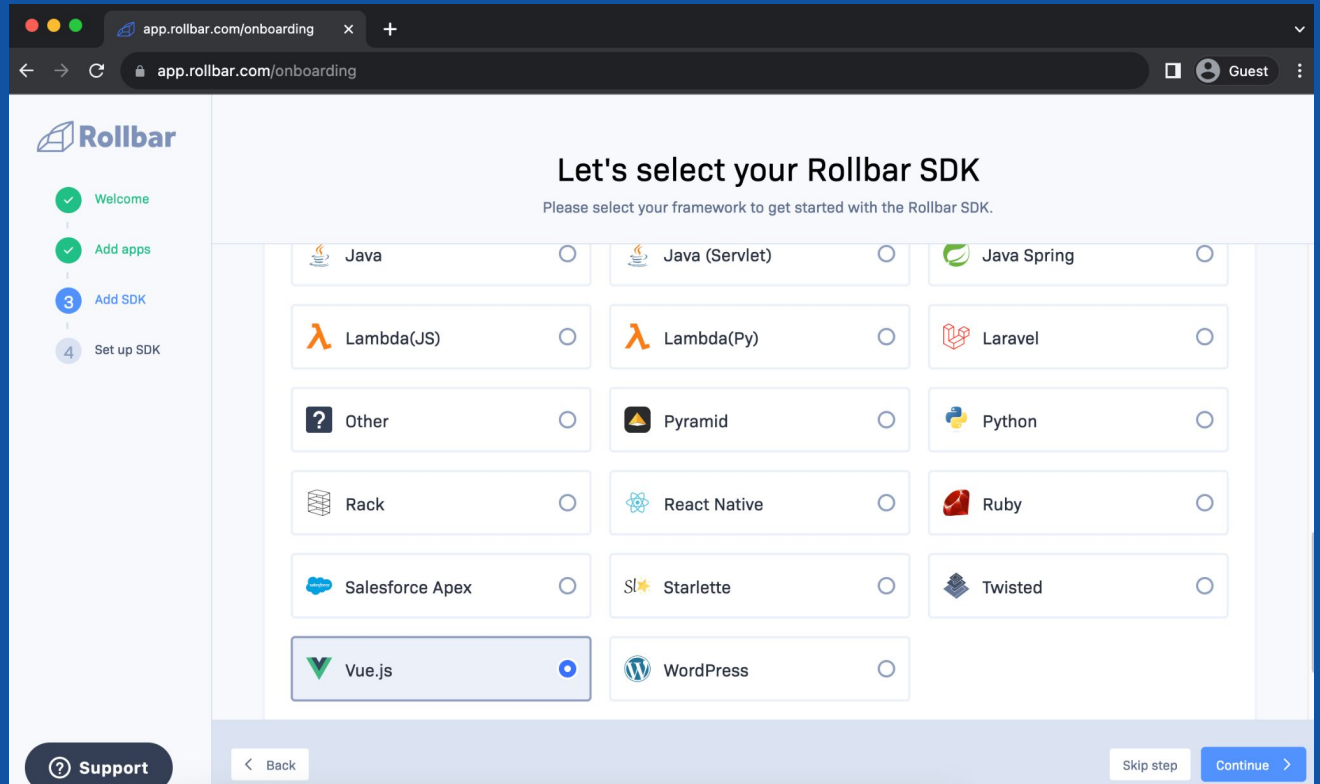
1.1 After Sign-Up, Ready To Start...



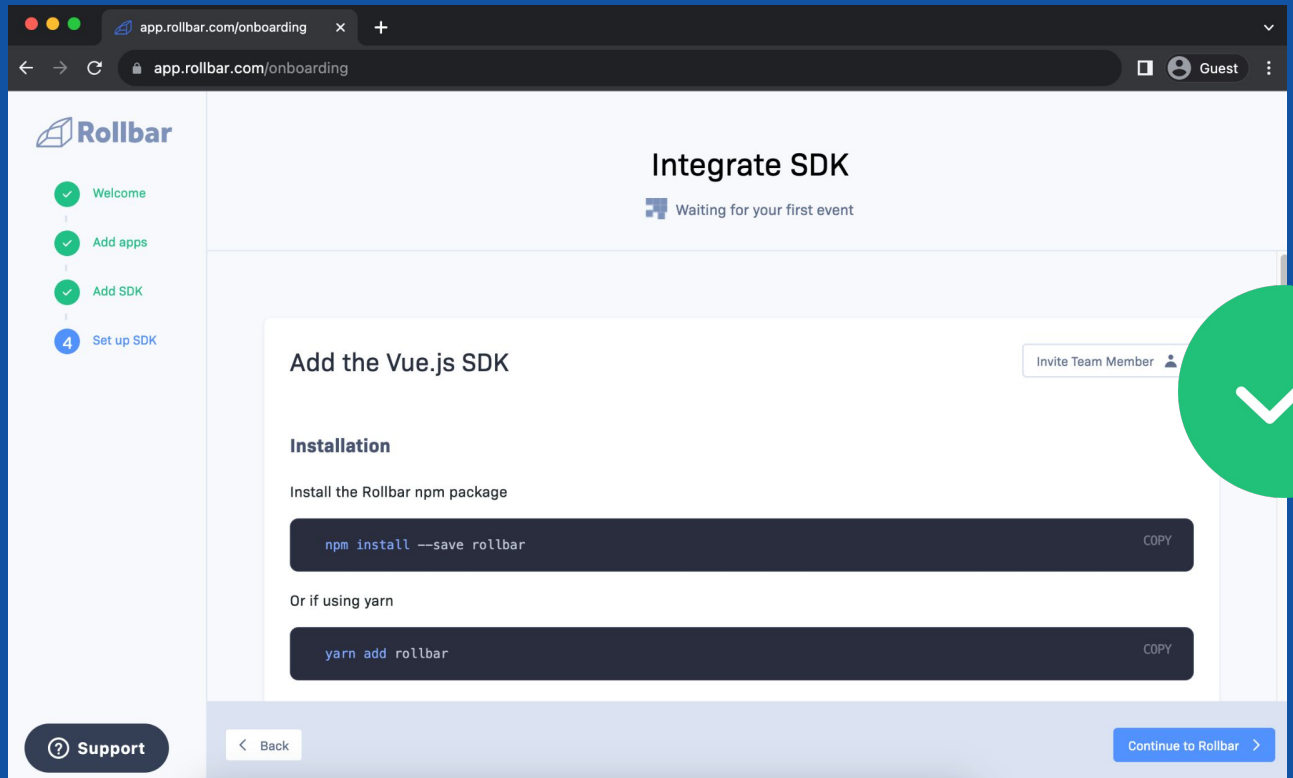
1.2 Select Integrations...



1.3 Scroll Down, Select Vue.js...



1.4 Integration Steps. Wait!



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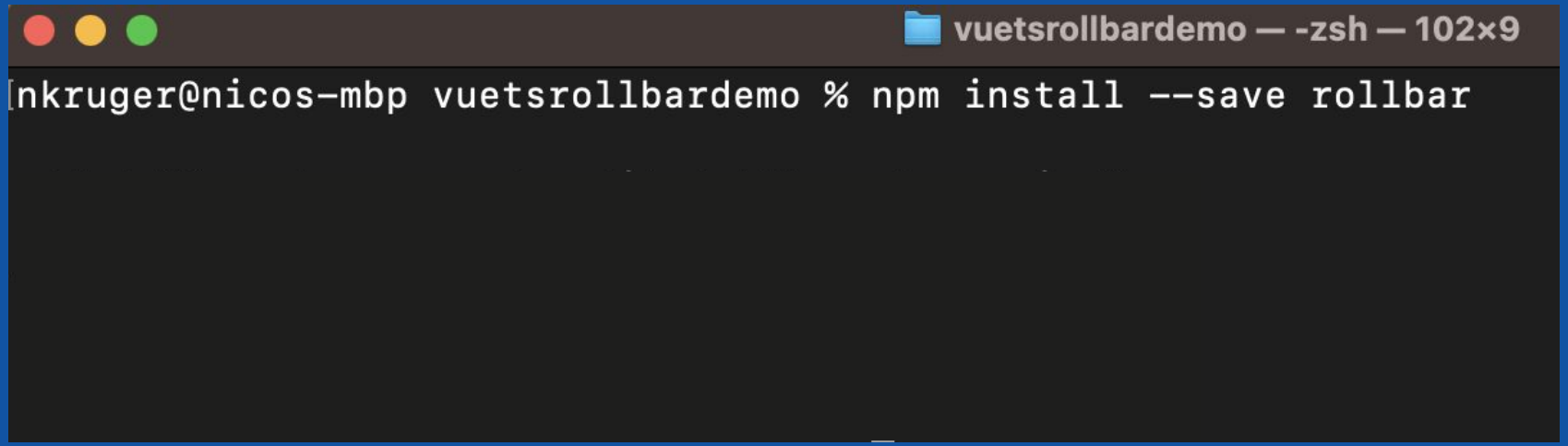
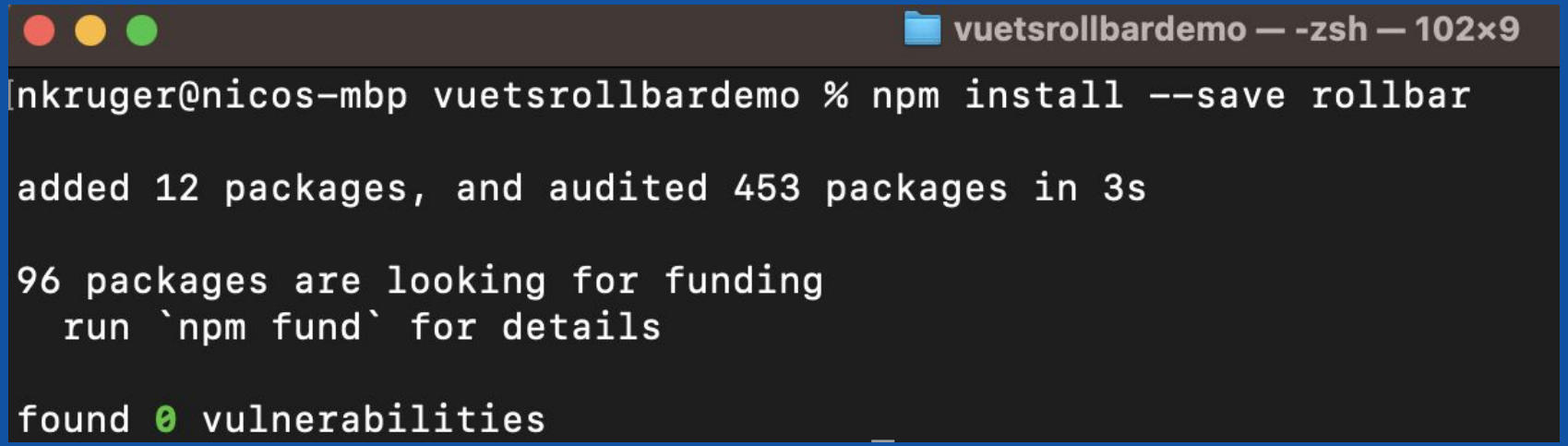
2

Integrate Your Application With The Rollbar SDK (Vue SDK)



2.1 Rollbar Package Installed

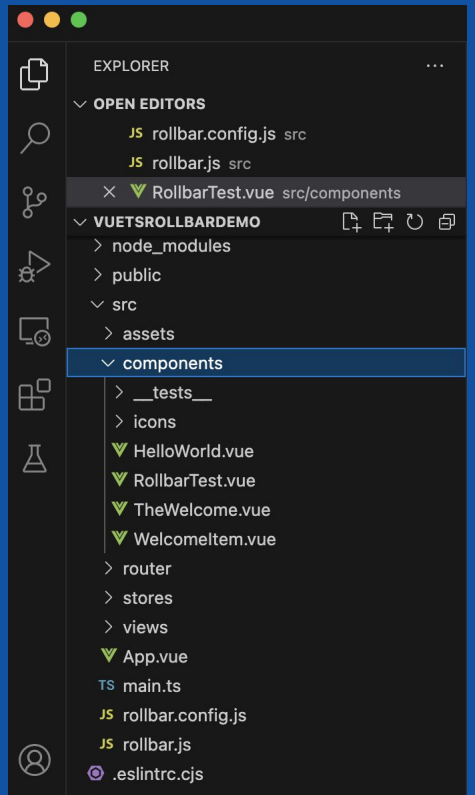


2.2 Follow Onboarding Steps...

Summary of Next Steps:

- Create **rollbar.config.js** file in src directory.
- Create VUE Plug-in file for Rollbar called **rollbar.js** file in src directory.
- Register Plug-in, in the **Main App** File.
- Create **RollbarTest.vue** in components directory.
- Register test component in the **Main App** File.
- Run App and locate new button called **Trigger Error** on page.

2.3 Note Files in “src” Folder…



2.4 rollbar.config.js

src > JS rollbar.config.js > default

```
1  // rollbar.config.js
2  export default {
3      accessToken: 'XXXX',
4      captureUncaught: true,
5      captureUnhandledRejections: true,
6      payload: {
7        environment: 'dev',
8        client: {
9          javascript: {
10           code_version: '1.0.0',
11         }
12       }
13     },
14   };
```

2.5 rollbar.js

src > JS rollbar.js > default

```
1   import Rollbar from 'rollbar';
2   import config from './rollbar.config';
3
4   const rollbar = new Rollbar(config);
5
6   export default {
7     install(app) {
8       app.config.errorHandler = (error, vm, info) => {
9         rollbar.error(error, { vueComponent: vm, info });
10        if (app.config.devtools) {
11          console.error(error);
12        }
13      };
14      app.provide('rollbar', rollbar);
15    },
16  };
```

2.6 Main.ts

TS main.ts 2 ●

src > TS main.ts > ...

```ts
import { createApp } from 'vue'
import { createPinia } from 'pinia'

import App from './App.vue'
import router from './router'
import RollbarPlugin from './rollbar' // Path to your rollbar.js file
import RollbarTest from './components/RollbarTest.vue' // Path to your RollbarTest.vue file

const app = createApp(App)

// Register the Rollbar Error Handler
app.use(RollbarPlugin)

app.use(createPinia())
app.use(router)

// Register the Rollbar tester component
app.component('RollbarTest', RollbarTest)

app.mount('#app')
```

2.7 RollbarTest.vue (will modify for TS)

src > components > RollbarTest.vue > { } script

```vue
<!-- RollbarTest.vue -->
<template>
  <div>
    <button @click="triggerError">Trigger Error</button>
  </div>
</template>

<script>
export default {
  methods: {
    triggerError() {
      // Simulate an error
      throw new Error('Testing Rollbar integration');
    },
  },
};
</script>
```

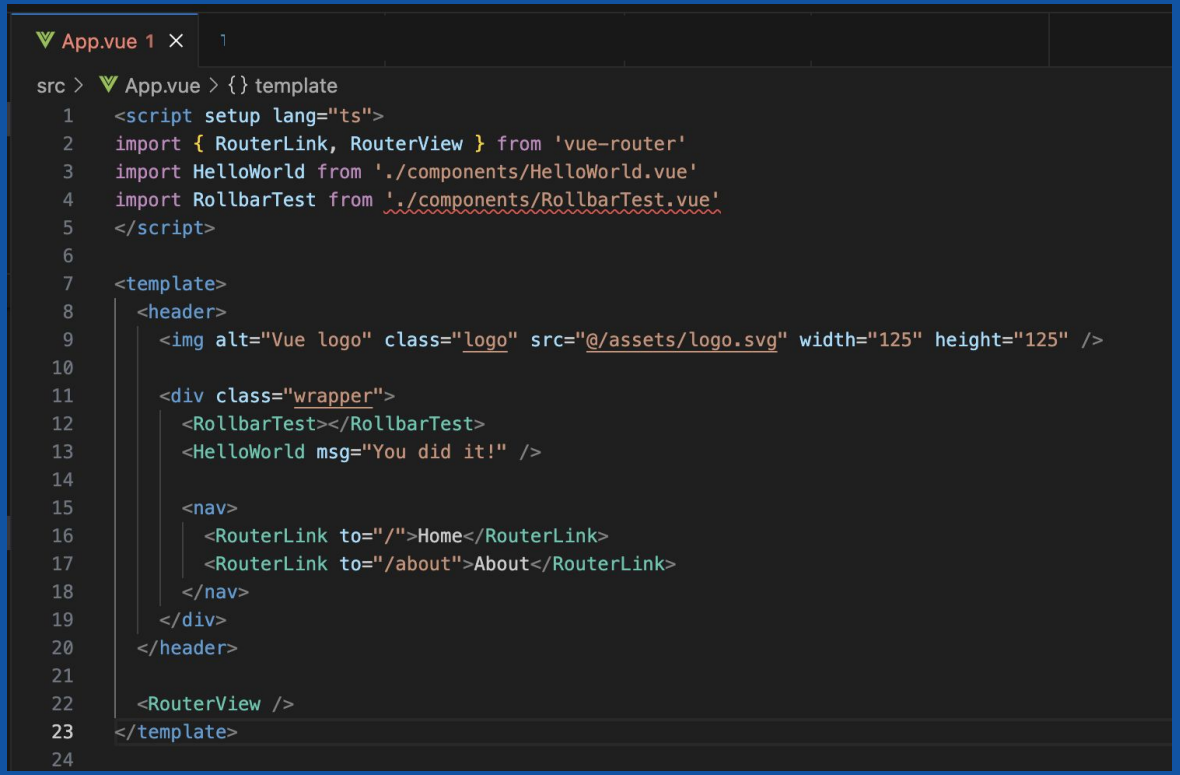
2.8 RollbarTest.vue (modify for TS)

src > components > RollbarTest.vue > { } script

```vue
<!-- RollbarTest.vue -->
<template>
  <div>
    <button @click="triggerError">Trigger Error</button>
  </div>
</template>

<script lang="ts">
export default {
  methods: {
    triggerError() {
      // Simulate an error
      throw new Error('Testing Rollbar integration')
    },
  },
}
</script>
```

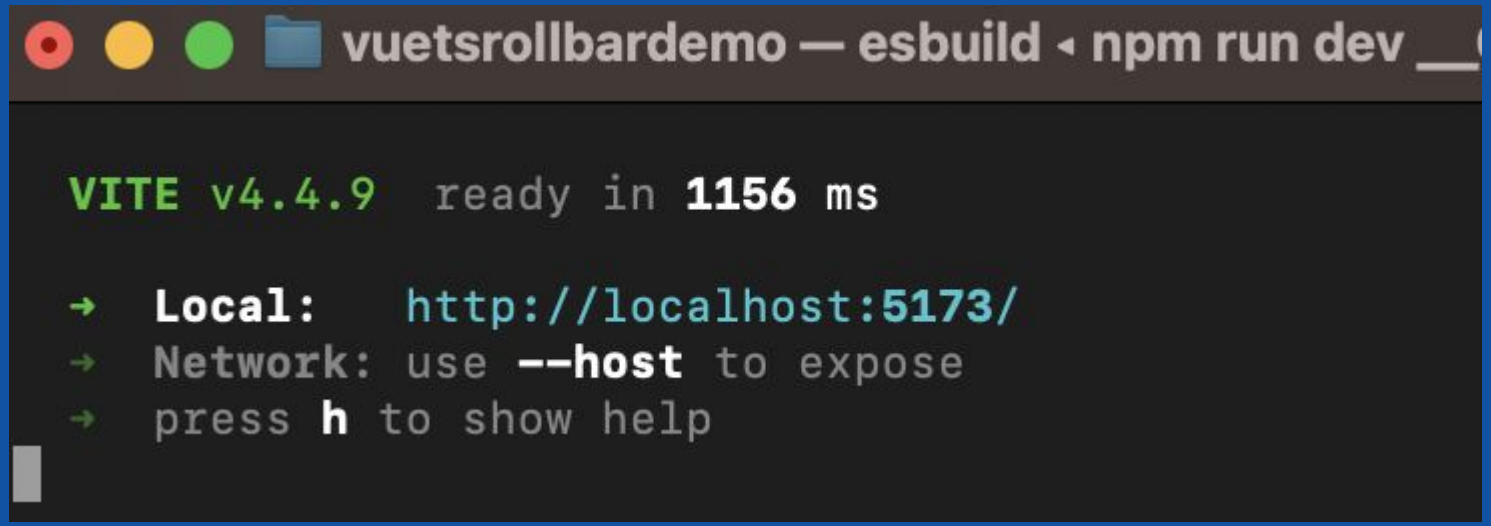
2.9 App.vue


App.vue 1
src > App.vue > {} template
<script setup lang="ts">
import { RouterLink, RouterView } from 'vue-router'
import HelloWorld from './components/HelloWorld.vue'
import RollbarTest from './components/RollbarTest.vue'
</script>
<template>
<header>
<img alt="Vue logo" class="logo" src="@/assets/logo.svg" width="125" height="125" />

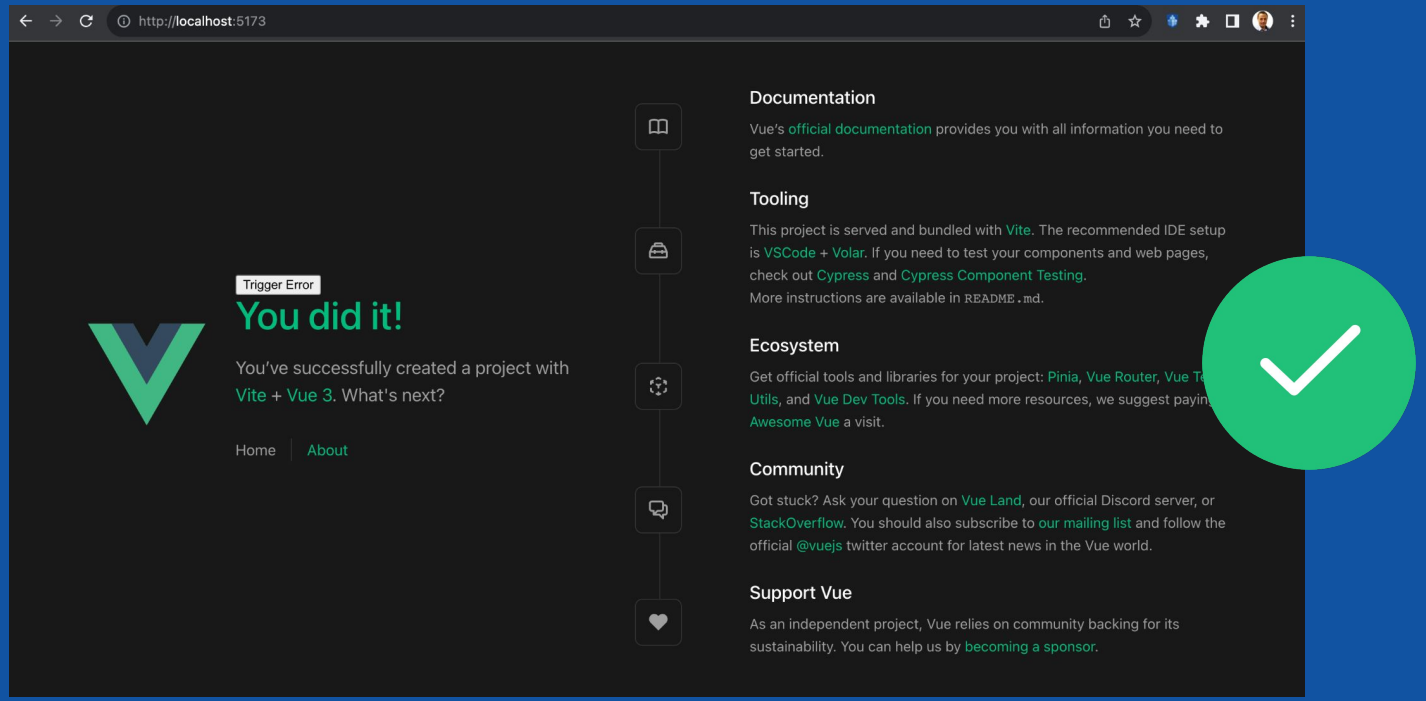
<RollbarTest></RollbarTest>
<HelloWorld msg="You did it!" />
<nav>
<RouterLink to="/">Home</RouterLink>
<RouterLink to="/about">About</RouterLink>
</nav>

</header>
<RouterView />
</template>

2.10 Run Your Application, npm run dev



2.11 End Result Should Be...



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5 Min Pause

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Common Exception Types

Common Exceptions / Errors:

- **Syntax** Errors - Wrong code syntax
- **Runtime** Errors - Illegal operation during execution
- **Logical** Errors - Mistake in program logic
- **HTTP** Errors - API returning an HTTP Error (5XX, 4XX)

Handled vs Unhandled Errors

Unhandled Errors

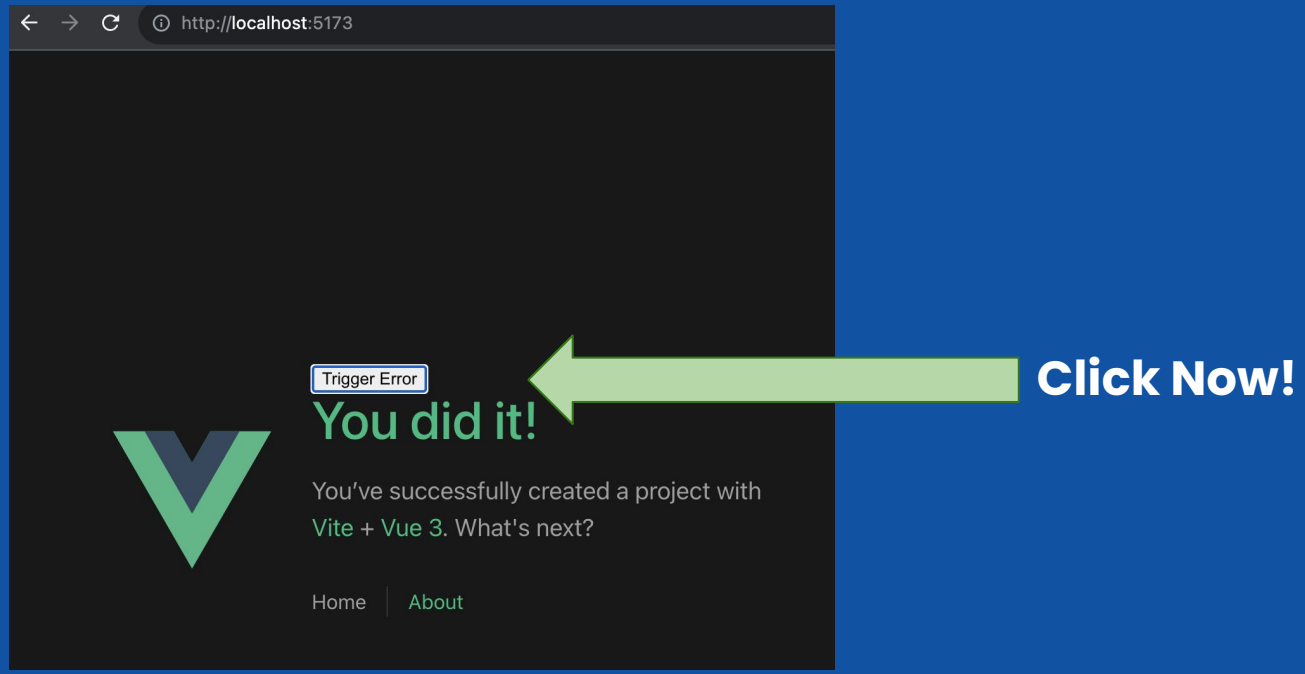
- Code exceptions and app crashed

Handled Errors

- Typically managed in a try/catch

3

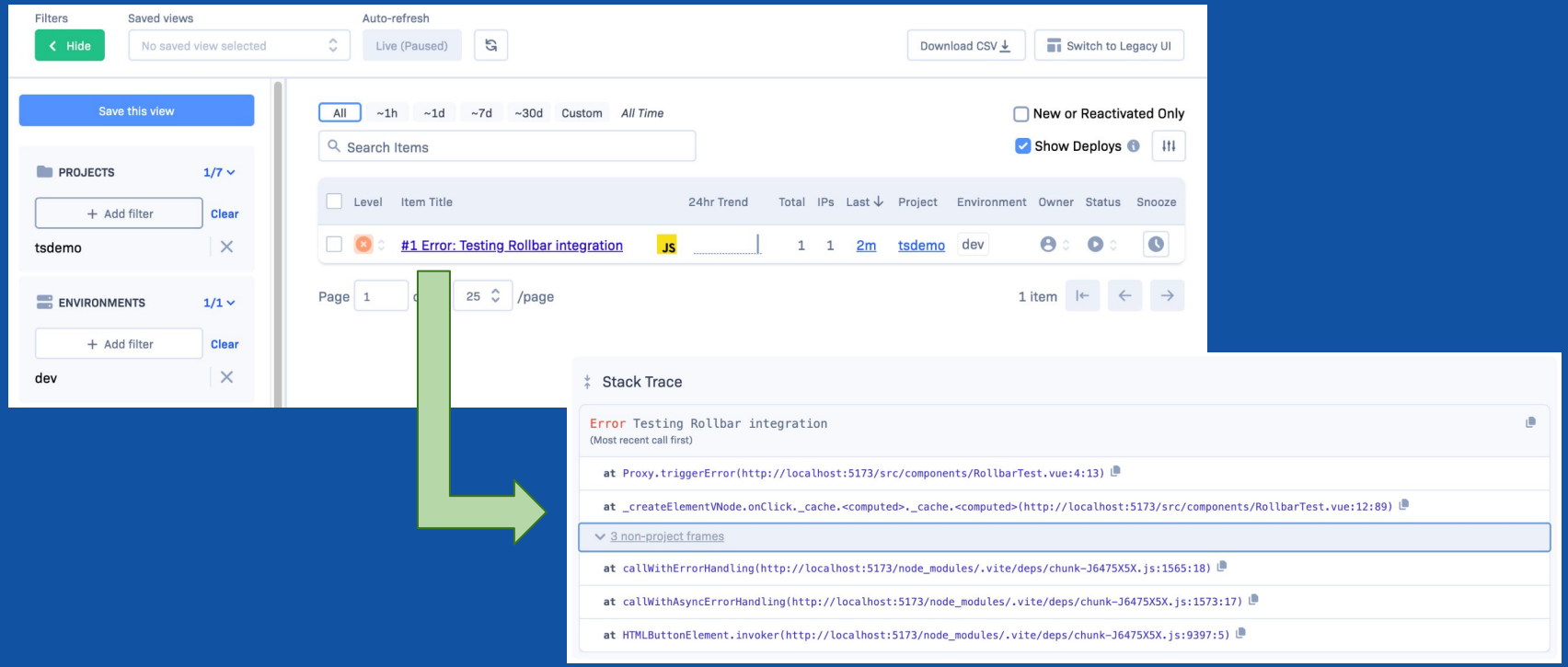
Send Handled And Unhandled Errors To Rollbar



3.1 Click “Trigger Error” Button

Once clicked the Error will show in Rollbar!

3.2 View Error In Rollbar



3.3 Another Code Example

src > components > RollbarTest.vue > {} script

```vue
<!-- RollbarTest.vue -->
<template>
  <div>
    <button @click="triggerError">Trigger Error</button>
    <button @click="triggerError2">Trigger Error 2</button>
  </div>
</template>

<script lang="ts">
export default {
  methods: {
    triggerError() {
      // Simulate an error
      throw new Error('Testing Rollbar integration')
    },
    triggerError2() {
      const x = 1n
      const y = 0n
      const quotient = x / y
      console.log(quotient)
    },
  },
}
</script>
```

Coding Workshop Done

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4 Add Custom Payload Data To You Configuration

Some common additional data fields that are added to the payload include:

- **Session ID**
- **Trace ID** - Extra context in in web service based application
- **Feature Flag ID** - To trigger a Webhook notification to turn off a feature with errors
- **End User Type** - To trigger a notification if important end users are experiencing errors
- **Owning Team** - To route an error to the correct team

4.1 Example Person Data

src > JS rollbar.config.js > default

```
// rollbar.config.js
export default {
    accessToken: 'XXXX',
    captureUncaught: true,
    captureUnhandledRejections: true,
    payload: {
      environment: 'dev',
      client: {
        javascript: {
          code_version: '1.0.0',
        }
      },
    // Adding info about the user affected by this event (optional)
    // The 'id' field is required, anything else is optional
    person: {
        id: '1234',
        username: 'testuser',
        email: 'user@email'
    },
    },
  };
```

4.2 Example Custom Data

src > JS rollbar.config.js > default

```
// rollbar.config.js
export default {
    accessToken: 'XXXX',
    captureUncaught: true,
    captureUnhandledRejections: true,
    payload: {
      environment: 'dev',
      client: {
        javascript: {
          code_version: '1.0.0',
        }
      },
        // Adding info about the user affected by this event (optional)
        // The 'id' field is required, anything else is optional
        person: {
            id: '1234',
            username: 'testuser',
            email: 'user@email'
        },

        // Example of adding arbitrary metadata (optional)
        custom: {
            trace_id: 'aabbccddeeff',
            feature_flag: [
              'feature_1',
              'feature_2'
            ]
          }

    },
  };
```

Coding Workshop Done

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Code Examples and Quick Start:

https://vuejs.org/guide/typescript/overview.html

https://github.com/TheDevFactory/vuetsdemo/

Rollbar