

Real-time Error Monitoring: A Live Coding Workshop to Setup Rollbar Error Monitoring

🕒 2:00 PM UTC (1 hr)

During this session you will learn how to create a new Rollbar account and integrate the Rollbar SDK with your application to monitor errors in real-time and respond and fix those errors. We will also cover how to customize payload data sent to Rollbar to extend your monitoring capabilities.



Coding Workshop Topics

0

Create New Vue3 Project

1

Create a Rollbar Account (Free)

2

Integrate Your Application With The Rollbar SDK

3

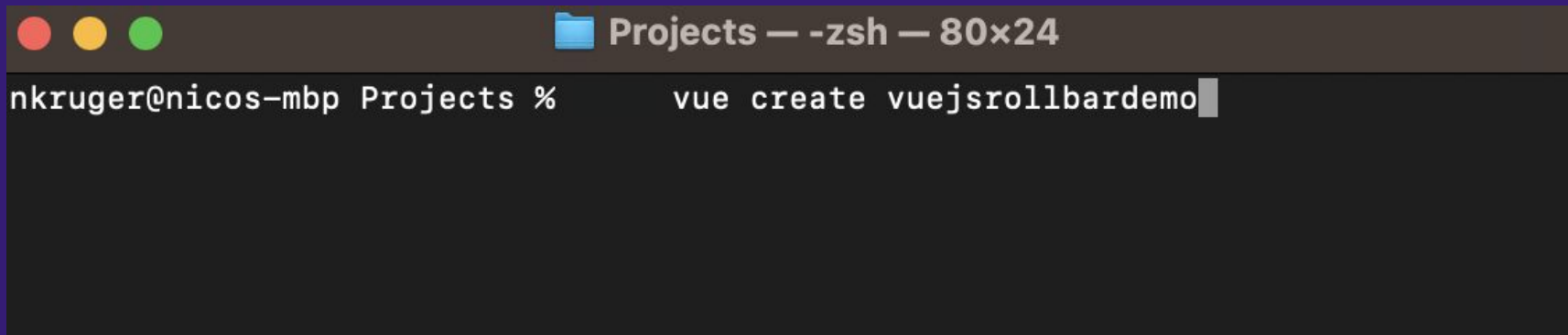
Send Handled And Unhandled Errors To Rollbar

4

Add Custom Payload Data To Your Configuration

0

Create New Vue3 Project



```
Projects — -zsh — 80x24
nkruger@nicos-mbp Projects % vue create vuejsrollbardemo
```

Project Name
vuejsrollbardemo

0.1

Select Vue 3

Projects — node ◀ sudo — 80x24

Vue CLI v5.0.8

? Please pick a preset: (Use arrow keys)

> Default ([Vue 3] babel, eslint)

Default ([Vue 2] babel, eslint)

Manually select features

Creation In Progress

```

Vue CLI v5.0.8
✨ Creating project in /Users/nkruger/Projects/vuejsrollbardemo.
📁 Initializing git repository...
⚙️ Installing CLI plugins. This might take a while...

( [REDACTED] ) : idealTree: timing idealTree Completed in 22281ms

```

0.3

Success! New Project Created

```
Projects — -zsh — 80x24

run `npm fund` for details

found 0 vulnerabilities
🚀 Invoking generators...
📦 Installing additional dependencies...

added 101 packages, and audited 966 packages in 8s

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

found 0 vulnerabilities
⚓ Running completion hooks...

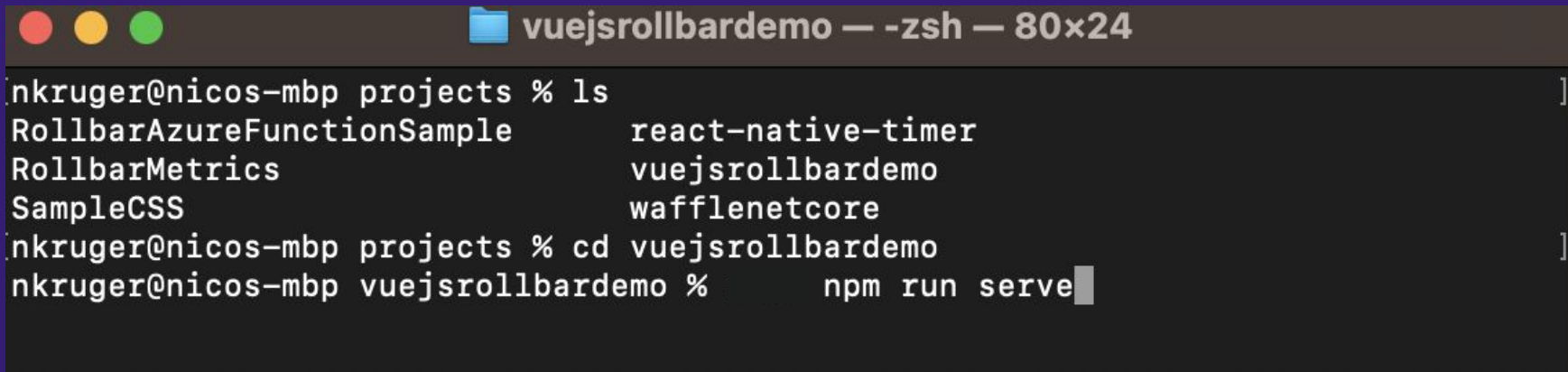
📄 Generating README.md...

🎉 Successfully created project vuejsrollbardemo.
👉 Get started with the following commands:

$ cd vuejsrollbardemo
$ npm run serve
```

0.4

Let's Run It!



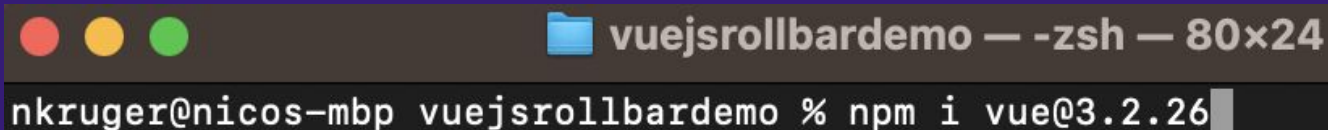
```
vuejsrollbardemo — -zsh — 80x24
nkruger@nicos-mbp projects % ls
RollbarAzureFunctionSample    react-native-timer
RollbarMetrics                vuejsrollbardemo
SampleCSS                     wafflenetcore
nkruger@nicos-mbp projects % cd vuejsrollbardemo
nkruger@nicos-mbp vuejsrollbardemo % npm run serve
```

0.5

Did You Receive This Error?

Error: @vitejs/plugin-vue requires vue (>=3.2.13) or @vue/compiler-sfc to be present in the dependency tree.

Run This Command >>

A terminal window with a dark background. The title bar shows three colored circles (red, yellow, green) on the left, a folder icon, and the text "vuejsrollbardemo — -zsh — 80x24". The main area shows the command "nkruger@nicos-mbp vuejsrollbardemo % npm i vue@3.2.26" with a cursor at the end.

```
nkruger@nicos-mbp vuejsrollbardemo % npm i vue@3.2.26
```

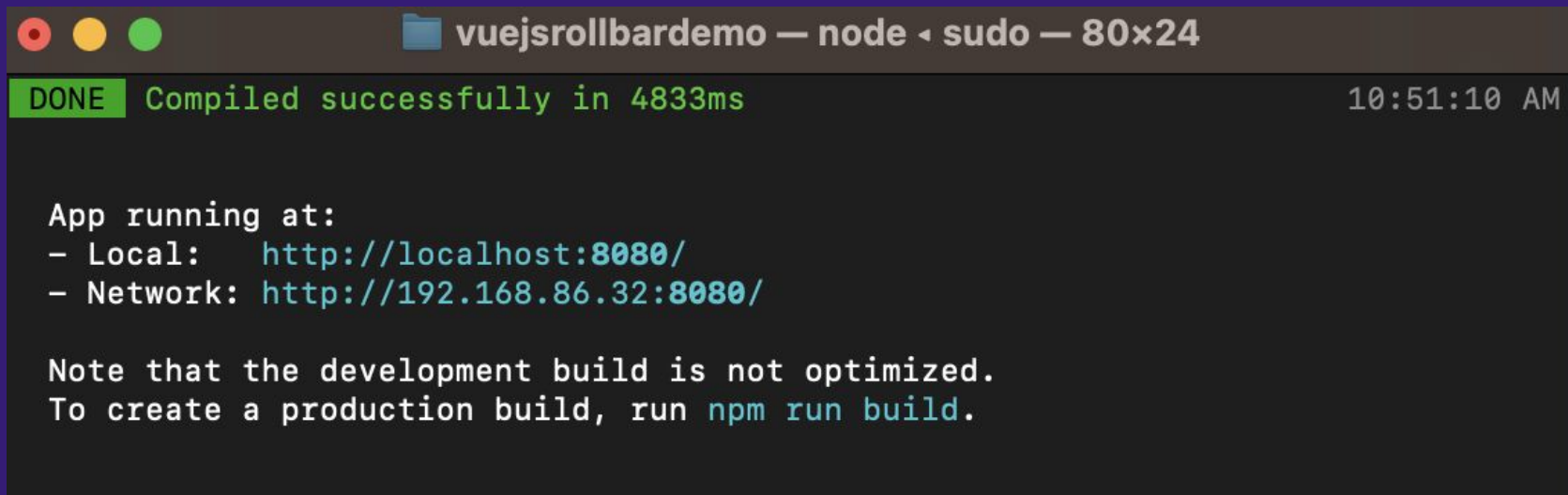

0.6

New Directory Permissions!

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

0.7

Success! Compiled And Running



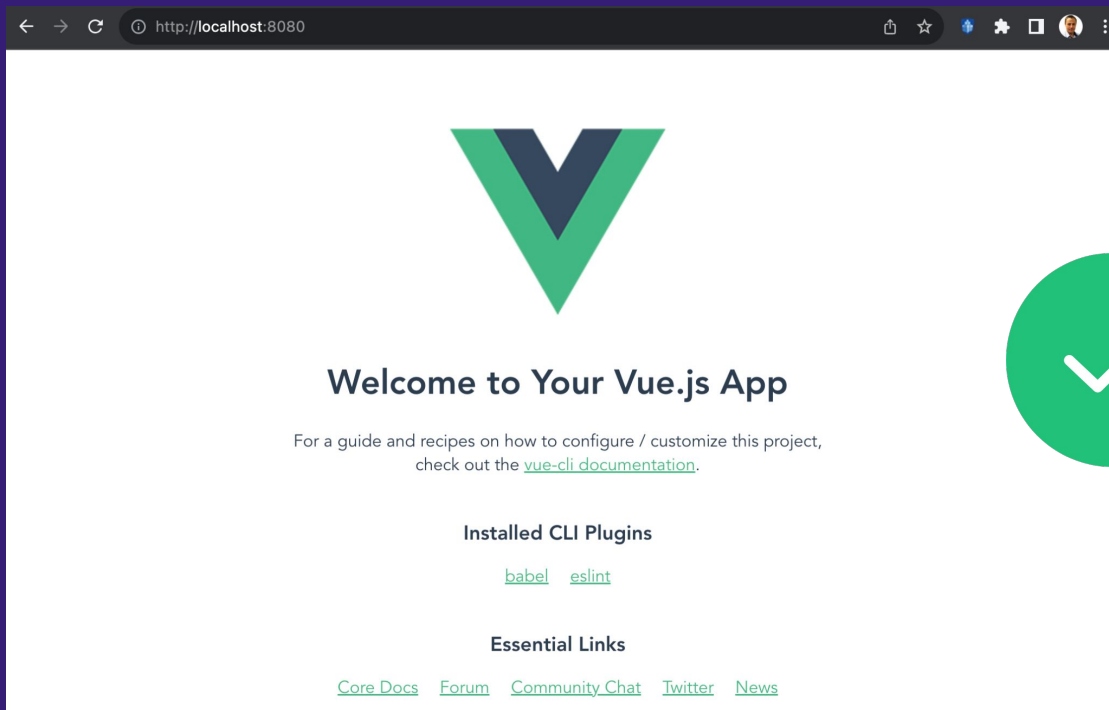
```
vuejsrollbardemo — node ◀ sudo — 80x24
DONE Compiled successfully in 4833ms 10:51:10 AM

App running at:
- Local:   http://localhost:8080/
- Network: http://192.168.86.32:8080/

Note that the development build is not optimized.
To create a production build, run npm run build.
```

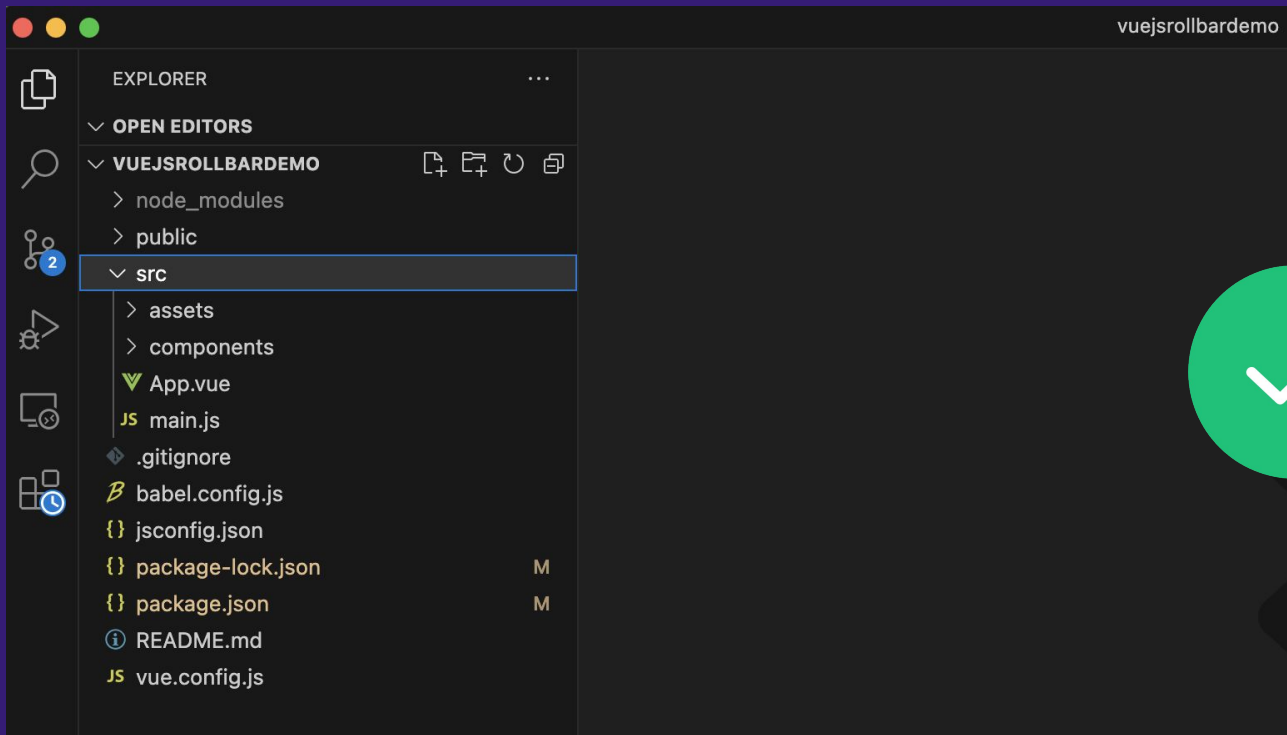
0.8

Open Browser >> <https://localhost:8080>



0.9

Open Code Editor For Project...



Progress Tracker

0

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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>

Start your **FREE** Rollbar account



5k free events per month



Easy and quick installation



Connect Slack, Jira, Trello & more



SIGN UP WITH GITHUB



SIGN UP WITH GOOGLE

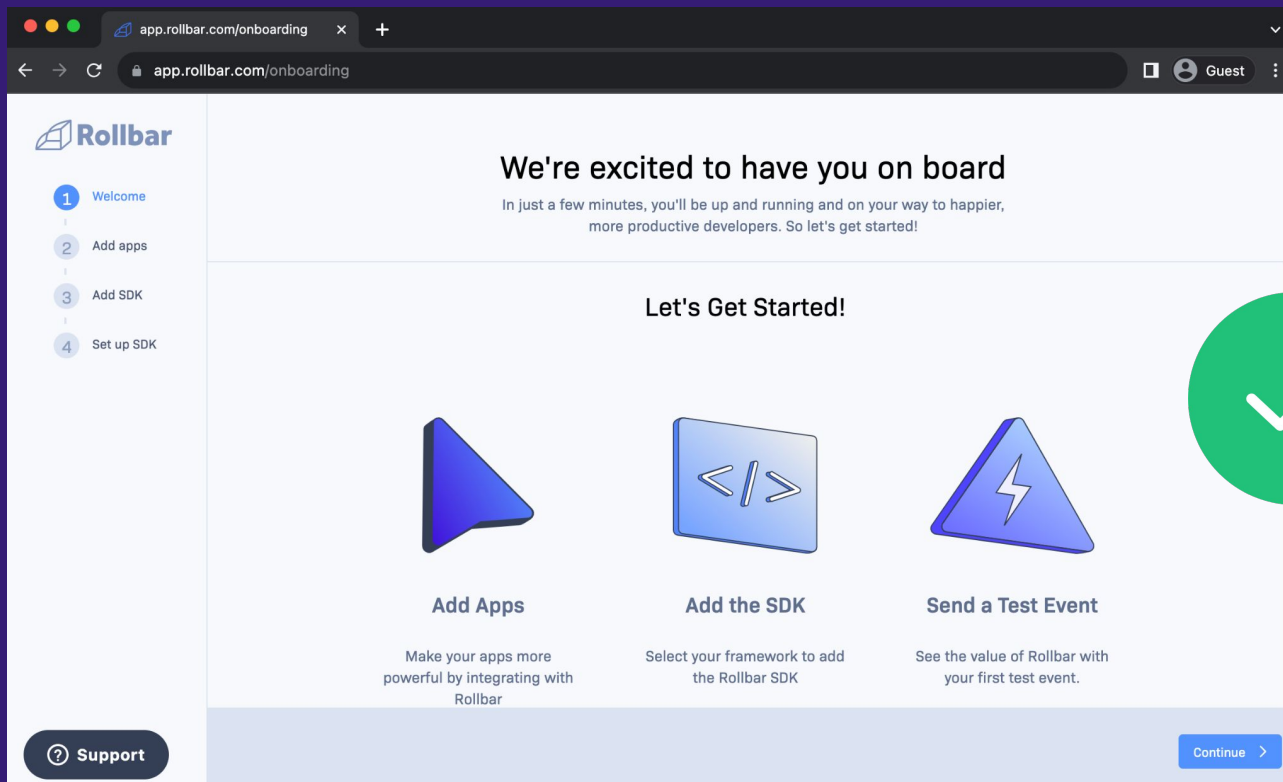
OR

Your email address

SIGN UP

1.1

After Sign-Up, Ready To Start...



The screenshot shows a web browser window at `app.rollbar.com/onboarding`. The page has a dark purple header with the Rollbar logo and a navigation sidebar on the left. The sidebar contains a list of steps: 1. Welcome (highlighted in blue), 2. Add apps, 3. Add SDK, and 4. Set up SDK. The main content area has a white background with the heading "We're excited to have you on board" and a subheading "In just a few minutes, you'll be up and running and on your way to happier, more productive developers. So let's get started!". Below this is a section titled "Let's Get Started!" with three cards: "Add Apps" (with a blue triangle icon), "Add the SDK" (with a blue square icon containing code symbols), and "Send a Test Event" (with a blue triangle icon containing a lightning bolt). Each card has a brief description of the step. A large green circle with a white checkmark is overlaid on the right side of the page. At the bottom right, there is a blue "Continue" button with a right arrow. At the bottom left, there is a dark purple button with a question mark icon and the word "Support".

Rollbar

1 Welcome

2 Add apps


3 Add SDK

4 Set up SDK

We're excited to have you on board

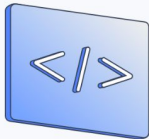
In just a few minutes, you'll be up and running and on your way to happier, more productive developers. So let's get started!

Let's Get Started!




Add Apps

Make your apps more powerful by integrating with Rollbar



Add the SDK

Select your framework to add the Rollbar SDK



Send a Test Event

See the value of Rollbar with your first test event.

[Support](#)

[Continue >](#)

1.2

Select Integrations...

The screenshot shows a web browser at `app.rollbar.com/onboarding`. The page has a sidebar with a progress indicator: 1. Welcome (checked), 2. Add apps (active), 3. Add SDK, and 4. Set up SDK. The main content area is titled "What apps do you use?" with the subtitle "Make your apps more powerful by integrating them with Rollbar". It features two sections: "Popular Apps" and "All Apps".

Popular Apps

App	Integration Status
Slack	<input checked="" type="checkbox"/>
Jira	<input checked="" type="checkbox"/>
GitHub	<input checked="" type="checkbox"/>

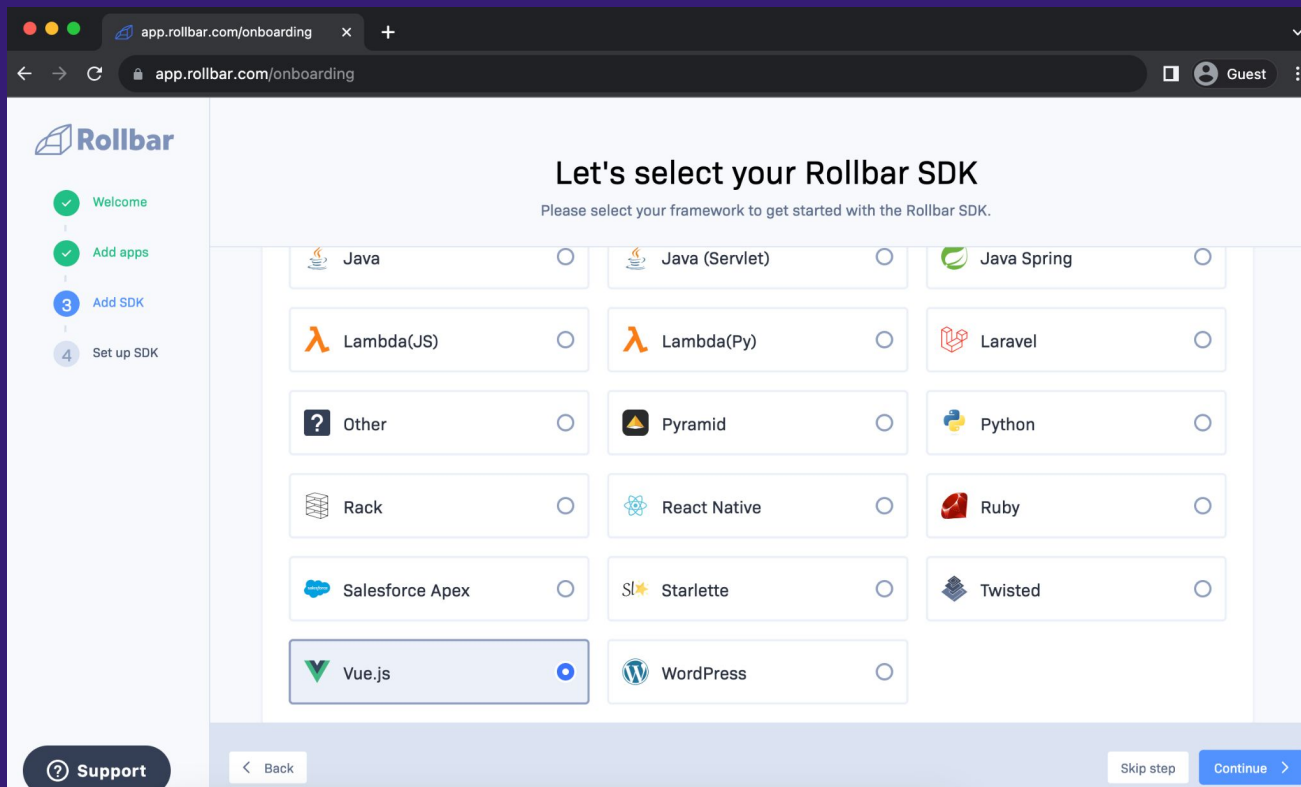
All Apps

App	Integration Status
Asana	<input type="checkbox"/>
Azure Devops	<input type="checkbox"/>
Bitbucket	<input type="checkbox"/>
Datadog	<input type="checkbox"/>
GitLab	<input type="checkbox"/>
HipChat Self-Hosted	<input type="checkbox"/>

At the bottom, there is a "Support" button with a question mark icon, a "Back" button, and "Skip step" and "Continue" buttons.

1.3

Scroll Down, Select Vue.js...



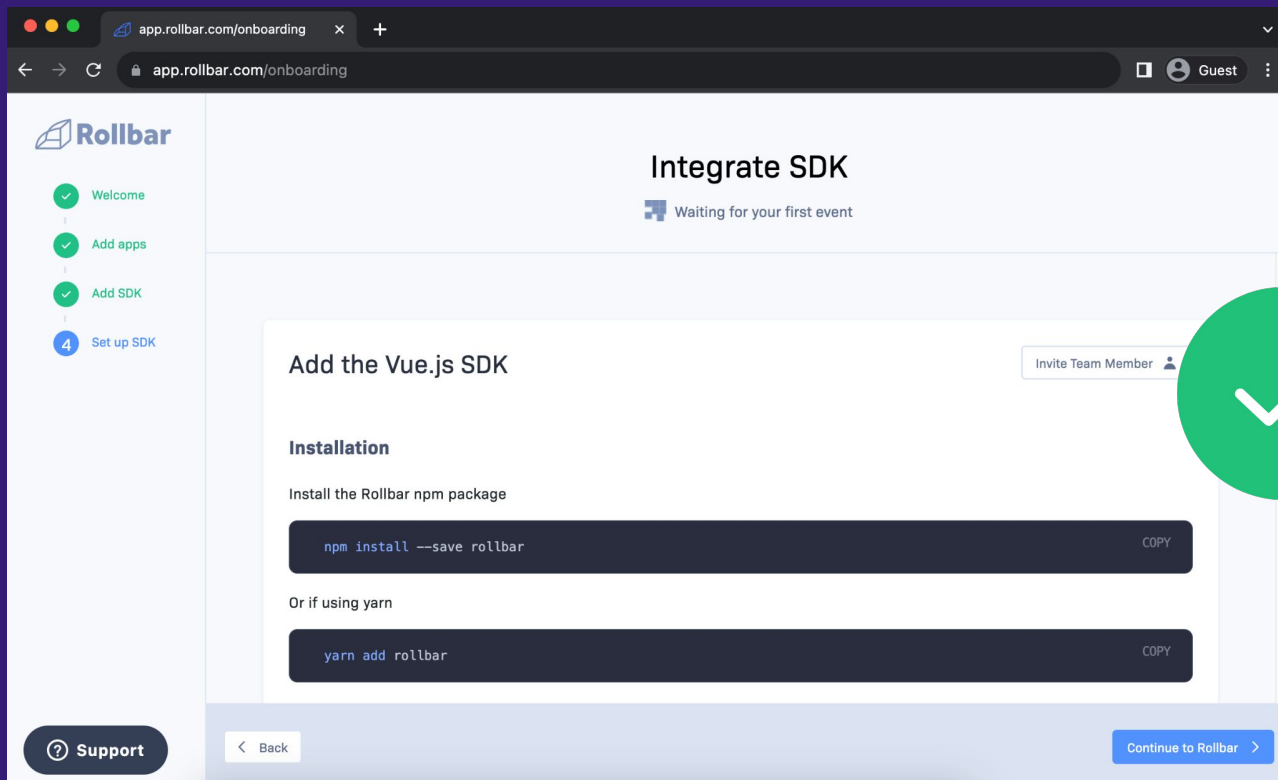
The screenshot shows a web browser at `app.rollbar.com/onboarding`. The page title is "Let's select your Rollbar SDK" with the instruction "Please select your framework to get started with the Rollbar SDK." A sidebar on the left shows a progress list: "Welcome" (checked), "Add apps" (checked), "Add SDK" (active, step 3), and "Set up SDK" (step 4). The main content area displays a grid of 15 SDK options, each with an icon, name, and a radio button. The "Vue.js" option is selected, indicated by a blue dot in its radio button. The options are arranged in five rows of three:

Java	Java (Servlet)	Java Spring
Lambda(JS)	Lambda(Py)	Laravel
Other	Pyramid	Python
Rack	React Native	Ruby
Salesforce Apex	Starlette	Twisted
Vue.js	WordPress	

At the bottom of the page, there is a "Support" button with a question mark icon, a "Back" button, and "Skip step" and "Continue" buttons.

1.4

Integration Steps. Wait!



The screenshot shows the Rollbar onboarding interface in a web browser. The browser's address bar displays 'app.rollbar.com/onboarding'. On the left, a sidebar lists the onboarding steps: 'Welcome' (checked), 'Add apps' (checked), 'Add SDK' (checked), and 'Set up SDK' (active, indicated by a blue circle with the number 4). The main content area is titled 'Integrate SDK' with a sub-header 'Waiting for your first event'. Below this, a card titled 'Add the Vue.js SDK' contains an 'Installation' section. It instructs the user to 'Install the Rollbar npm package' and provides two code blocks: one for 'npm install --save rollbar' and another for 'yarn add rollbar', each with a 'COPY' button. A 'Support' link is in the bottom left, and a 'Continue to Rollbar' button is in the bottom right. A large green circle with a white checkmark is overlaid on the right side of the page.

app.rollbar.com/onboarding

Rollbar

- ✓ Welcome
- ✓ Add apps
- ✓ Add SDK
- 4 Set up SDK

Integrate SDK

Waiting for your first event

Add the Vue.js SDK

Invite Team Member

Installation

Install the Rollbar npm package

```
npm install --save rollbar
```

COPY

Or if using yarn

```
yarn add rollbar
```

COPY

Support

Back

Continue to Rollbar

Progress Tracker

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5 Min Pause

**Is Everyone Ready
To Proceed?**

**Have Enough
Coffee?**



2

Integrate Your Application With The Rollbar SDK (Vue JS SDK)

 vuejsrollbardemo — -zsh — 80x24

```
nkruger@nicos-mbp vuejsrollbardemo % npm install --save rollbar
```

2.1

Rollbar Package Installed

```
vuejsrollbardemo — zsh — 80x24

npm WARN EBADENGINE }
npm WARN EBADENGINE Unsupported engine {
npm WARN EBADENGINE   package: 'eslint-scope@7.2.2',
npm WARN EBADENGINE   required: { node: '^12.22.0 || ^14.17.0 || >=16.0.0' },
npm WARN EBADENGINE   current: { node: 'v15.13.0', npm: '7.7.6' }
npm WARN EBADENGINE }
npm WARN EBADENGINE Unsupported engine {
npm WARN EBADENGINE   package: 'eslint-visitor-keys@3.4.2',
npm WARN EBADENGINE   required: { node: '^12.22.0 || ^14.17.0 || >=16.0.0' },
npm WARN EBADENGINE   current: { node: 'v15.13.0', npm: '7.7.6' }
npm WARN EBADENGINE }
npm WARN EBADENGINE Unsupported engine {
npm WARN EBADENGINE   package: 'esprez@9.6.1',
npm WARN EBADENGINE   required: { node: '^12.22.0 || ^14.17.0 || >=16.0.0' },
npm WARN EBADENGINE   current: { node: 'v15.13.0', npm: '7.7.6' }
npm WARN EBADENGINE }

added 10 packages, and audited 976 packages in 5s

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

found 0 vulnerabilities
```

2.2

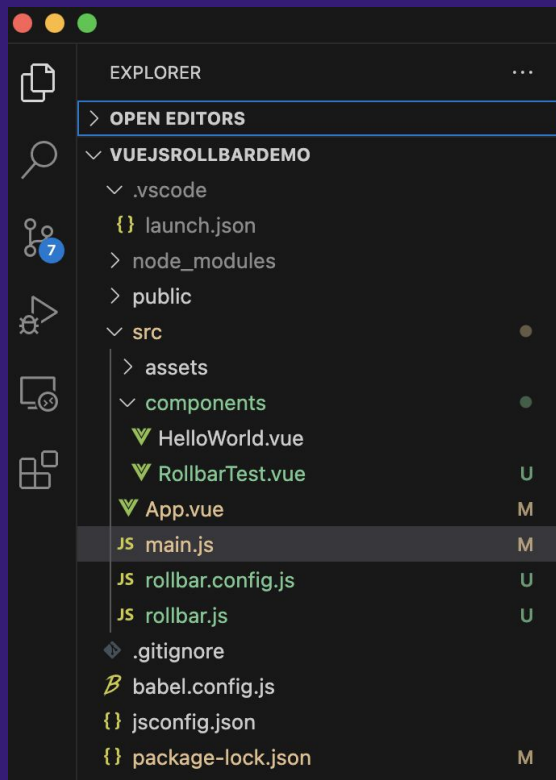
Follow Onboarding Steps...

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.js

src > JS main.js > ...

```
1 | import { createApp } from 'vue';
2 | import App from './App.vue';
3 | import RollbarPlugin from './rollbar'; // Path to your rollbar.js file
4 | import RollbarTest from './components/RollbarTest.vue'; // Path to your RollbarTest.vue file
5 |
6 | const app = createApp(App);
7 |
8 | // Registering the Rollbar Error handler
9 | app.use(RollbarPlugin);
10 |
11 | // Registering the Rollbar tester component
12 | app.component('RollbarTest', RollbarTest);
13 |
14 | createApp(App).mount('#app');
```

2.7

App.vue

```
src > ▼ App.vue > {} script > [🔗] default > 🔗 components > 🔗 RollbarTest
1  <template>
2    
3    <RollbarTest></RollbarTest>
4    <HelloWorld msg="Welcome to Your Vue.js App"/>
5  </template>
6
7  <script>
8    import HelloWorld from './components/HelloWorld.vue'
9    import RollbarTest from './components/RollbarTest.vue'
10
11    export default {
12      name: 'App',
13      components: {
14        HelloWorld,
15        RollbarTest
16      }
17    }
18  </script>
```

2.8

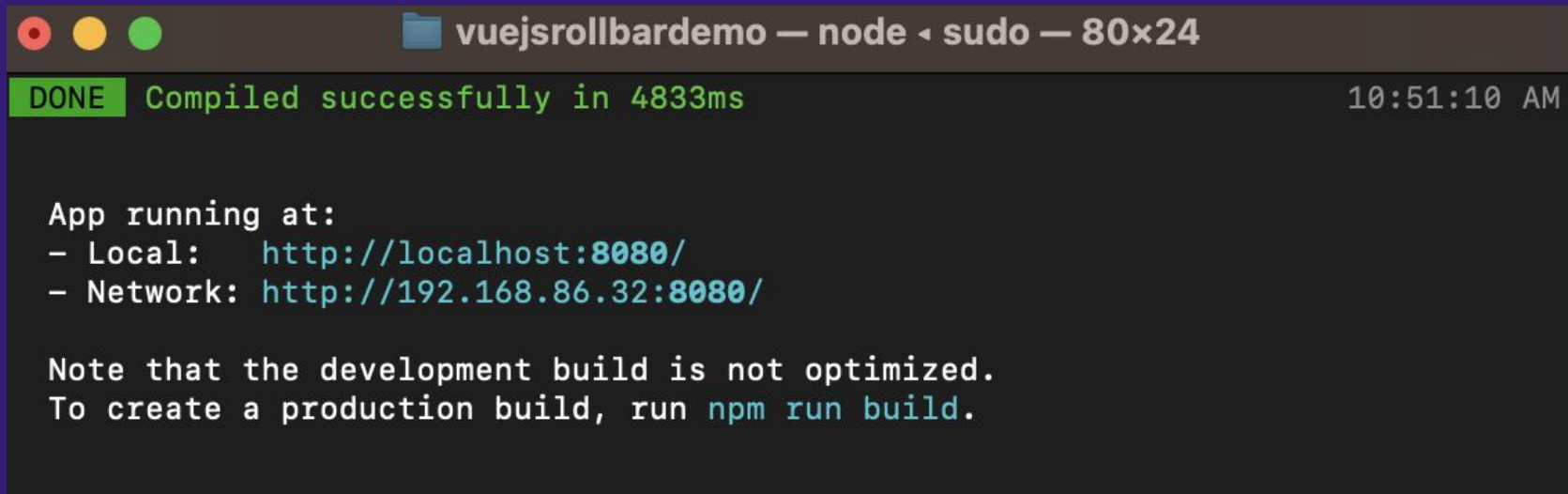
RollbarTest.vue

src > components > ▼ RollbarTest.vue > {} script

```
1  <!-- RollbarTest.vue -->
2  <template>
3    <div>
4      <button @click="triggerError">Trigger Error</button>
5    </div>
6  </template>
7
8  <script>
9    export default {
10      methods: {
11        triggerError() {
12          // Simulate an error
13          throw new Error('Testing Rollbar integration');
14        },
15      },
16    };
17  </script>
```

2.9

Run Your Application



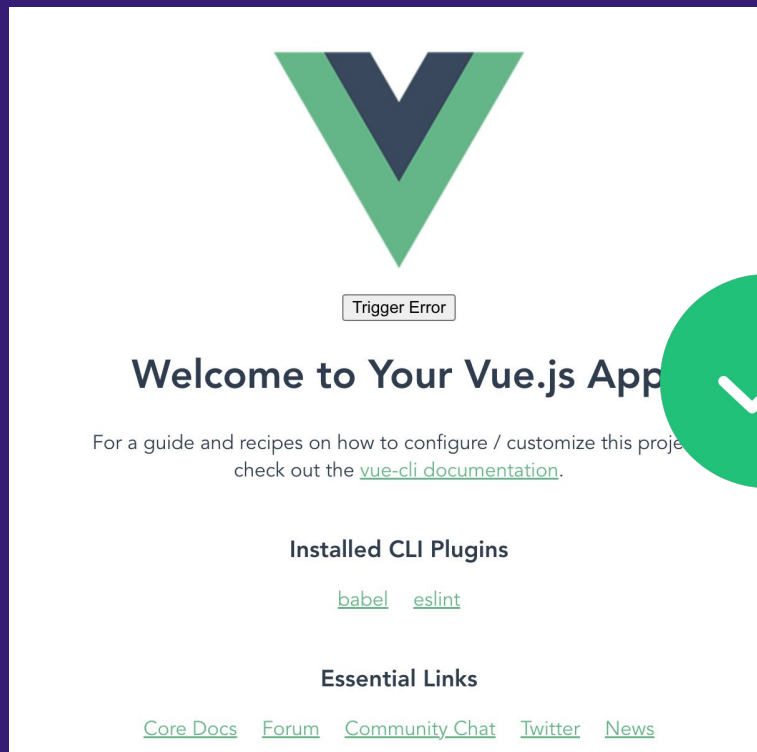
```
vuejsrollbardemo — node ◀ sudo — 80x24
DONE Compiled successfully in 4833ms 10:51:10 AM

App running at:
- Local:   http://localhost:8080/
- Network: http://192.168.86.32:8080/

Note that the development build is not optimized.
To create a production build, run npm run build.
```

2.10

End Result Should Be...



Progress Tracker

0

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5 Min Pause

**Is Everyone Ready
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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)

i

Handled vs Unhandled Errors

Unhandled Errors

- Code exceptions and app crashed

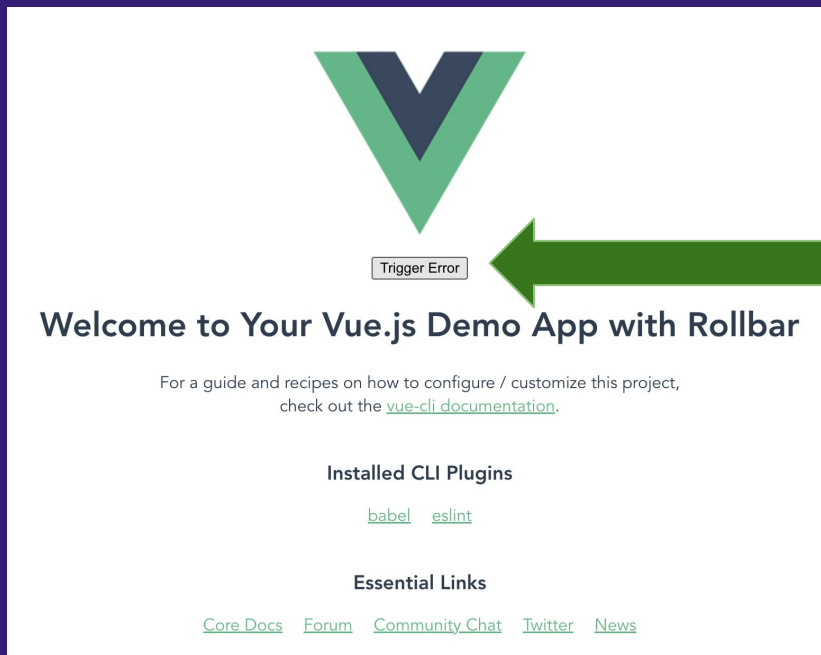
Handled Errors

- Typically managed in a try/catch



3

Send Handled And Unhandled Errors To Rollbar



Click Now!

3.1

Click “Trigger Error” Button

Uncaught runtime errors:

ERROR

Testing Rollbar integration

```
at Proxy.triggerError (webpack-internal:///./node_modules/babel-loader/lib/index.js??clonedRuleSet-40.use[0]!./node_modules/vue-loader/dist/index.js??ruleSet[0].use[0]!./src/components/RollbarTest.vue?vue&type=script&lang=js:6:13)
```

```
at onClick._cache.<computed>._cache.<computed> (webpack-internal:///./node_modules/babel-loader/lib/index.js??clonedRuleSet-40.use[0]!./node_modules/vue-loader/dist/templateLoader.js??ruleSet[1].rules[3]!./node_modules/vue-loader/dist/index.js??ruleSet[0].use[0]!./src/components/RollbarTest.vue?vue&type=template&id=18b14628:9:87)
```



```
at callWithErrorHandling (webpack-internal:///./node_modules/@vue/runtime-core/dist/runtime-core.esm-bundler.js:285:18)
```

```
at callWithAsyncErrorHandling (webpack-internal:///./node_modules/@vue/runtime-core/dist/runtime-core.esm-bundler.js:293:17)
```



```
at HTMLButtonElement.invoker (webpack-internal:///./node_modules/@vue/runtime-dom/dist/runtime-dom.esm-bundler.js:425:82)
```


3.2

View Error In Rollbar

Items  LIVE  [Advanced](#)

☐ Item 1 result 24hr Trend Total IPs Last ↓ Project Env Owner Status Level

<input type="checkbox"/>		#1 Uncaught Error: Testing Rollbar integration		1	1	3m	VueJSProject	dev		Error
--------------------------	---	--	--	---	---	----	--------------	-----	--	-------

Timezone: [America - Chicago](#)  [Download CSV](#)



Stack Trace

Error Testing Rollbar integration
(Most recent call first)

5 non-project frames

- at Proxy.triggerError(webpack-internal:///./node_modules/babel-loader/lib/index.js:6:13)
- at onClick._cache.<computed>._cache.<computed>(webpack-internal:///./node_modules/babel-loader/lib/index.js:9:87)
- at callWithErrorHandling(webpack-internal:///./node_modules/@vue/runtime-core/dist/runtime-core.esm-bundler.js:285:18)
- at callWithAsyncErrorHandling(webpack-internal:///./node_modules/@vue/runtime-core/dist/runtime-core.esm-bundler.js:293:17)
- at HTMLButtonElement.invoker(webpack-internal:///./node_modules/@vue/runtime-dom/dist/runtime-dom.esm-bundler.js:425:82)

3.3

Another Code Example

src > components > ▼ RollbarTest.vue > {} script

```
1  <!-- RollbarTest.vue -->
2  <template>
3    <div>
4      <button @click="triggerError">Trigger Error</button>
5      <button @click="triggerError2">Trigger Error 2</button>
6    </div>
7  </template>
8
9  <script>
10 export default {
11   methods: {
12     triggerError() {
13       // Simulate an error
14       throw new Error('Testing Rollbar')
15     },
16     triggerError2() {
17       const x = 1n;
18       const y = 0n;
19       const quotient = x / y;
20       console.log(quotient);
21     },
22   },
23 };
24 </script>
```

Uncaught runtime errors:

ERROR

Division by zero
RangeError: Division by zero
at Proxy.triggerError2 (webpack-internal:///./node_modules/babel-loader/lib/index.js??clonedRuleSet-40.use[0]!./node_modules/vue-loader/dist/index.js??ruleSet[0].use[0]!./src/components/RollbarTest.vue?vue&type=script&lang=js:11:26)
at onClick._cache.<computed>._cache.<computed> (webpack-internal:///./node_modules/babel-loader/lib/index.js??clonedRuleSet-40.use[0]!./node_modules/vue-loader/dist/templateLoader.js??ruleSet[1].rules[3]!./node_modules/vue-loader/dist/index.js??ruleSet[0].use[0]!./src/components/RollbarTest.vue?vue&type=template&id=18b14628:11:88)
at callWithErrorHandling (webpack-internal:///./node_modules/@vue/runtime-core/dist/runtime-core.esm-bundler.js:285:18)
at callWithAsyncErrorHandling (webpack-internal:///./node_modules/@vue/runtime-core/dist/runtime-core.esm-bundler.js:293:17)
at HTMLButtonElement.invoke (webpack-internal:///./node_modules/@vue/runtime-dom/dist/runtime-dom.esm-bundler.js:425:82)

Coding Workshop Done

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Add Custom Payload Data To Your Configuration

4

Add Custom Payload Data To Your 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
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     // Adding info about the user affected by this event (optional)
14     // The 'id' field is required, anything else is optional
15     person: {
16       id: '1234',
17       username: 'testuser',
18       email: 'user@email'
19     },
20   },
21 };|
```

4.2

Example Custom Data

```
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     // Adding info about the user affected by this event (optional)
14     // The 'id' field is required, anything else is optional
15     person: {
16       id: '1234',
17       username: 'testuser',
18       email: 'user@email'
19     },
20
21     // Example of adding arbitrary metadata (optional)
22     custom: {
23       trace_id: 'aabbccddeeff',
24       feature_flag: [
25         'feature_1',
26         'feature_2'
27       ]
28     }
29   },
30 },
31 };
```

Coding Workshop Done

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