# **Sentry.io - SE Technical Exercise**

## **Instructions**

The following are questions and requests that Sentry customers are asking you to help them with as an SE. Please reply to the customer in a markdown file (e.g., my-answers.md). Feel free to include any links, Git repositories (if appropriate) and other resources (images, GIFs, etc.). The following resources can and should be used to get started:

1. Sentry’s technical [documentation](https://docs.sentry.io/)
2. Your own **Sentry Sandbox environment** - navigate [here](https://sentry.io/welcome/) and select *ENTER SANDBOX* (**Note** - your sandbox Sentry org is available for 24h, after which it will be **reset** and any changes you apply to it will be **removed**. A completely **new** org will be provisioned the next time you enter.)
3. Create your own **Sentry dev account**, org, and project by signing up here: https://sentry.io/signup/

Once you are done, zip everything up (markdown file and any relevant resources/attachments) and send via email to Ido at [Ishemesh@sentry.io](mailto:Ishemesh@sentry.io) and CC [jcollins@sentry.io](mailto:jcollins@sentry.io).

For any questions about the actual exercise please email Ido at [*ishemesh@sentry.io*](mailto:ishemesh@sentry.io) *Thank you!*

## **1) JavaScript: Ignore errors from 3rd party library?**

* *Hi,*
* *I want to ignore all errors that come from https://somejslibrary.com/somelibrary.js as they are not impacting my application/experience and I can’t do anything about these errors since I don’t control the code/library. Here is my code/setup:*

<!DOCTYPE html>

<html>

<head>

<title>Sample Title</title>

<script

src="https://browser.sentry-cdn.com/6.2.5/bundle.min.js"

integrity="sha384-+0tgGyP4idWu9/NA6Jbmnj3SApxIg65/GR1zo3qSieRNyzmmDQ/5a1Yu6mfmUw+v"

crossorigin="anonymous"

></script>

<script>

Sentry.init({

dsn: 'https://XXXXXXX@sentry.io/123',

release: "1.1"

});

</script>

<script src="https://somejslibrary.com/somelibrary.js" crossorigin="anonymous"></script>

<script>

var obj = {};

obj.invalidFunction(); // this error should always be reported to Sentry

</script>

</head>

<body>

Body text...

</body>

</html>

*Hint:* Check out<https://docs.sentry.io/platforms/javascript/configuration/>.

somelibrary.js does not exist, feel free to insert valid library/script to test/verify, and replace with somelibrary.js before submitting.

*Instructions*: Please show working code/snippet with explanation + appropriate references (e.g., relevant link(s)) and write in the form of an email response to a customer explaining how to ignore errors from 3rd party library.

## **2) Explore Sentry Sandbox**

For the following questions, please use the **Sentry Sandbox** environment (see instructions at top of document) to explore the product and provide the step-by-step instruction with the relevant screenshots (as detailed as possible).

### **2.1 Alert when errors spike on Chrome browser?**

* *Hi,*
* *I want to be alerted via email when my Front end project sees more than 3 error events triggered on a Chrome browser in a 30 minute window. Is that possible? If so, could you please explain how to get this alerting behavior configured?*

*Hint:* Use the Sandbox environment to create a **Metric Alert.**

*Instructions*: Please provide a how-to description with screen shots from the Sandbox env for the customer with as many detail as possible.

### **2.2 Discover**

* *Hi,*
* *Is it possible to generate a report showing the number of all* ***events of type error*** *that occurred in my back-end project distributed by the country in which the event was triggered from?*

*Hint:*

* Use the Sandbox environment to create a new **Discover** query.
* To display the number of events in the Results table - use the count() function.

*Instructions*: Please provide a how-to description with screen shots from the Sandbox env for the customer with as many detail as possible.

## **3) React Project with Sentry integration**

* *Hi,*
* *We’re looking to migrate from our proprietary in-house JS framework to React. Before we do that, we wanted to POC with Sentry as our application monitoring service and test it out with React so that we can have this configured before the migration.*

*Instructions*:

* Please use your Sentry dev account to **create a new project** (Projects > Create Project), and validate the error is indeed captured
* Please link to your public GitHub repository which has the working code with Sentry integrated into it. The code should be in a state where anyone can clone it and run it.

### **3.1 Sentry Error Monitoring for React**

* *We want to know about errors as we are porting/migrating code so that we are not transferring technical debt in the form of errors and exceptions from our old codebase to the new React stack).*
* *Could you possibly send me a sample React project with Sentry integrated - just an app with a button that triggers an error will suffice.*

*Hint:* Spin up a React project on your Sentry dev org and head to<https://docs.sentry.io/platforms/javascript/guides/react/> for Sentry integration.

### **3.2 Sentry Performance Monitoring for React**

Now that we’ve migrated our code, we’d like to make sure that the application is performing well and measure the page load duration.

Could you please enable Sentry performance monitoring on the React sample app to show us how the Sentry SDK **automatically** captures an end user triggered page load.

Hint: for more information, see: <https://docs.sentry.io/platforms/javascript/guides/react/performance/>

## **4) Mid-size security conscious company (Bonus)**

*Hi,*

*I am a developer at company XYZ and we are extremely security conscious as we have been operating in "stealth"-mode due to the proprietary nature of our product and space as well as we have not released our product and do not want competitors/public to know about anything unless an announcement has approved by the C-level staff.*

*I noticed that Sentry has a hosted single-tenant and multi-tenant solution, which one would you recommend and why?*

*I'm looking to present this to my boss and team next week at our monthly tech summit.*

*Hint(s):*

* *Sentry offers a multi tenant SaaS solution on Sentry.io and a hosted Single Tenant deployment.*
* <https://sentry.io/security>