

### **PURPOSE**

Datadog Real User Monitoring (RUM) enables you to visualize and analyze the real-time performance and user journeys of your application's individual users. To collect events, add the RUM Browser SDK to your browser application and configure what data is collected using initialization parameters.

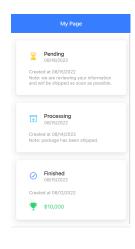
#### **SOLUTION MAPPING**

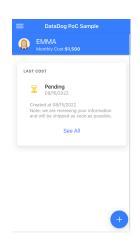
lonic is an open source UI toolkit for building performant, high-quality mobile and desktop apps using web technologies — HTML, CSS, and JavaScriptlonic.

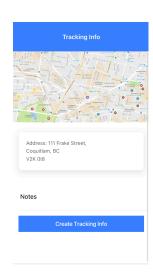
- 1. Create a Ionic mobile App sample
- 2. Integrate the DataDog RUM into Ionic sample

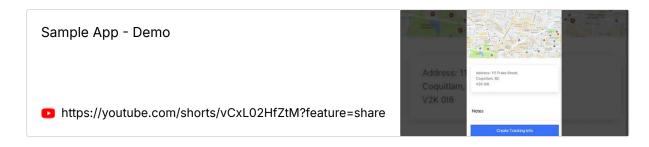
# **Prototype Creation**









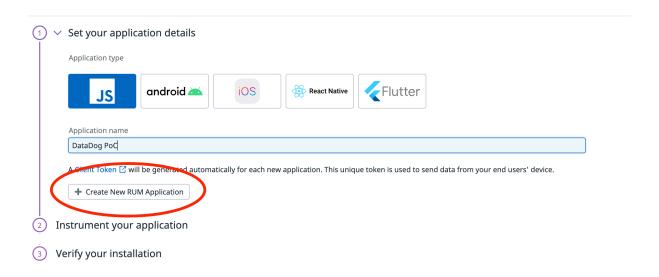


# **Step By Step**

- 1. Download DataDog Agent, and register an account
- 2. **Set up RUM Browser Monitoring**, create a RUM application:
- In Datadog, navigate to the <u>RUM Applications page</u> and click the <u>New Application</u> button.

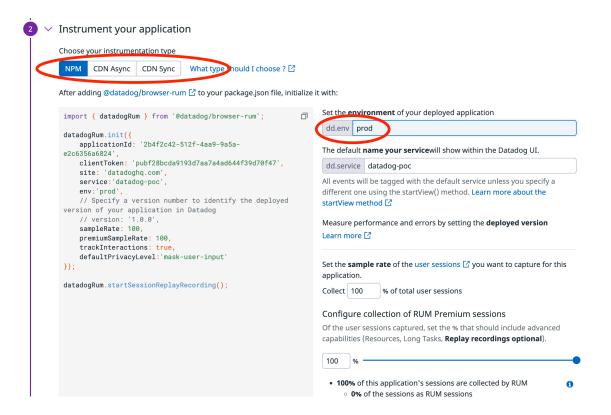


• Enter a name for your application and click **Generate Client Token**. This generates a clientToken and an application for your application.



- Choose the installation type for the RUM Browser SDK: <u>npm</u>, or a hosted version (<u>CDN async</u> or <u>CDN sync</u>).
- Define the environment name and service name for your application to use unified service tagging for <u>RUM & Session Replay</u>. Set a version number for your deployed application in the initialization snippet. For more information, see <u>Tagging</u>.

- Set the sampling rate of total user sessions collected and use the slider to set the percentage of total <u>Browser Premium</u> sessions collected. Browser Premium sessions include resources, long tasks, and replay recordings.
- Click the Session Replay Enabled toggle to access replay recordings in Session Replay.
- Select a privacy setting for Session Replay in the dropdown menu.
- Deploy the changes to your application. Once your deployment is live,
   Datadog collects events from your users' browsers.
- Visualize the <u>data collected</u> in <u>dashboards</u> or create a search query in the <u>RUM Explorer</u>.

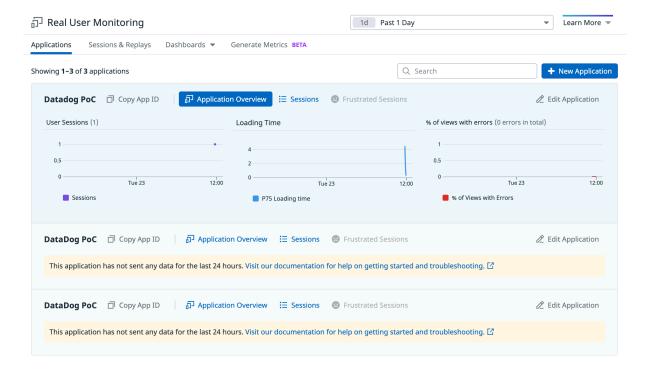


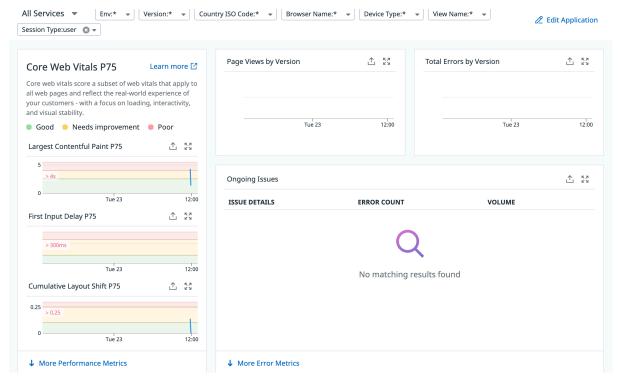
- 4. Set up in application:
- 6. Then initialize it with:
- ▼ Latest version

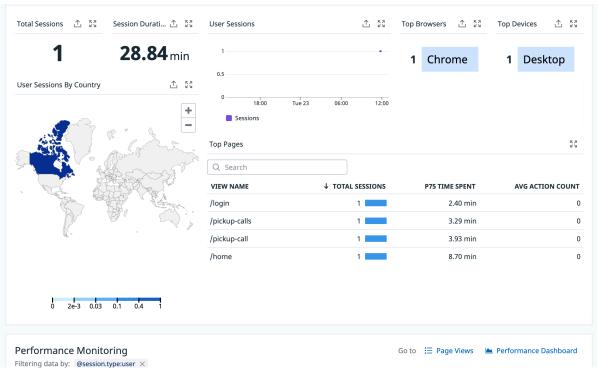
```
import { datadogRum } from '@datadog/browser-rum'
datadogRum.init({
```

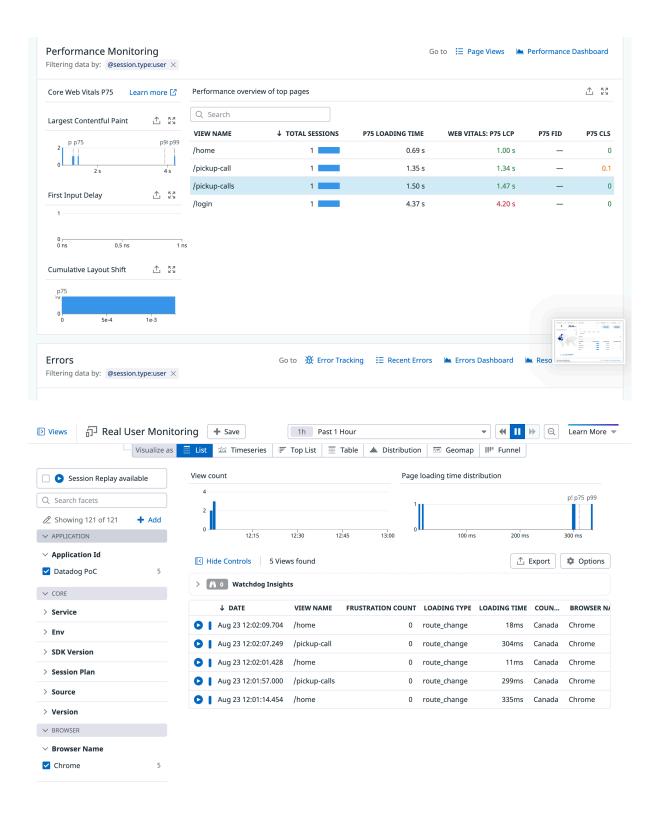
```
applicationId: '<DATADOG_APPLICATION_ID>',
clientToken: '<DATADOG_CLIENT_TOKEN>',
site: '<DATADOG_SITE>',
// service: 'my-web-application',
// env: 'production',
// version: '1.0.0',
sampleRate: 100,
premiumSampleRate: 100, // if not included, the default is 100
trackInteractions: true,
})
```

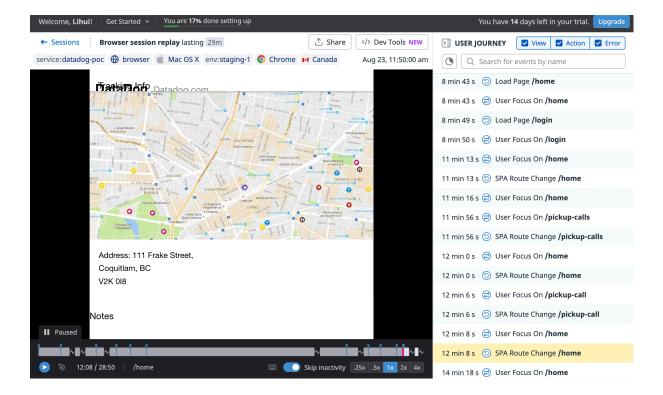
#### **Performance Results**











## Replay Results:

https://app.datadoghq.com/rum/replay/sessions/690a6fb8b2cc-4779-9d8c-c4a89abc609d?ts=1661280600652

## **PoC Recording Video**

https://youtu.be/RkAkTllgr7l

## Reference

- 1. https://ionicframework.com/docs
- 2. <a href="https://docs.datadoghq.com/real\_user\_monitoring/browser/">https://docs.datadoghq.com/real\_user\_monitoring/browser/</a>
- 3. <a href="https://www.etlsolutions.com/new/an-example-of-a-successful-proof-of-concept/">https://www.etlsolutions.com/new/an-example-of-a-successful-proof-of-concept/</a>
- 4. https://ionic.io/integrations/datadog