

Build a SUAPP Webapp

This tutorial will show you how to build a SUAPP web application using [guave-viem](#) , our [typescript SDK](#) .

info There are two different templates you can use for your SUAPP. One with minimal, TypeScript-only dependencies; and one which uses Next.

eth_sign dependency

1. Confidential Compute Requests on SUAVE do not work with wallets that implement the EIP-1193 Javascript API. Therefore, we use the unsafeeth_sign
2. method to sign CCRs, which does work, but requires that you enable this functionality in wallets like MetaMask.1. To do so in MetaMask, go to "Settings" -> "Advanced" -> scroll to bottom -> switch Eth_sign requests on.
3. Both templates below assume that you are [running SUAVE locally](#)
4. .

To get a feel for how a SUAVE-enabled web app works, we've provided a couple examples. One is written in Vanilla TS, and one is written with [Next](#) .

Vanilla TypeScript Example

This project is written in vanilla TS (built with [Vite](#)), which means we directly manipulate the [DOM Tree](#) in the browser to render the site, rather than using a web framework like React/Next.

This template can be found in the suave-viem repo under [examples/suave-web-demo](#) .

Setup

Before running the example (in docker or locally), make sure you have a [SUAVE devnet running locally](#) .

You'll also need to install [Foundry](#) ([forge](#) is used to deploy contracts).

Next, clone the suave-viem repo and deploy the contract we'll be using for this demo to your local SUAVE chain:

clone the repo

```
git clone https://github.com/flashbots/suave-viem.git
```

deploy contracts

```
cd suave-viem/examples/suave ./deployContracts.sh
```

Run with Docker

We recommend running the Typescript examples in [Docker](#) for security, since javascript runtimes have the potential to execute arbitrary code on your machine.

If you're still in suave-viem/examples/suave/ , jump back up to suave-viem/ :

```
cd
```

.. / .. Now we'll build the docker image, which will build the source code and configure the example's environment to connect to your local devnet.

docker build -t suave-web-example . Next, we'll run a docker container with our new image:

docker run -it suave-web-example This will open a bash terminal inside docker, where you'll land in examples/ .

To run the web example:

cd suave-web-demo bun dev Now your container should be hosting the web app on <http://172.17.0.2:5173> . If not, look for the correctNetwork address in your terminal output.

Run Locally

system dependencies The following dependencies are required to run this example on your machine:

- cd

bun install bun dev This template uses the same MEV-Share example contract we worked with using the [Golang SDK in the previous tutorial](#) .

Next.js Example

Make sure you have previously built and symlinked suave-viem for this to work:

cd packages/forge/ forge install forge build Deploy the compiled contracts from the root directory (you need to have [SUAVE running locally](#) for this to work):

```
yarn fe:dev
```

You now have two different templates from which to begin building your own SUAPP

Good luck and happy building > [. Edit this page](#) [Previous Deploy Contracts](#) [Next Confidential Compute Requests](#)

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