

# Lagrange Extrapolation Website Instructions

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Access the website directly through this link: [Login | Lagrange \(lagrange-forex.vercel.app\)](https://lagrange-forex.vercel.app)

Official Github Repository: [Lavelliane/lagrange-forex \(github.com\)](https://github.com/Lavelliane/lagrange-forex)

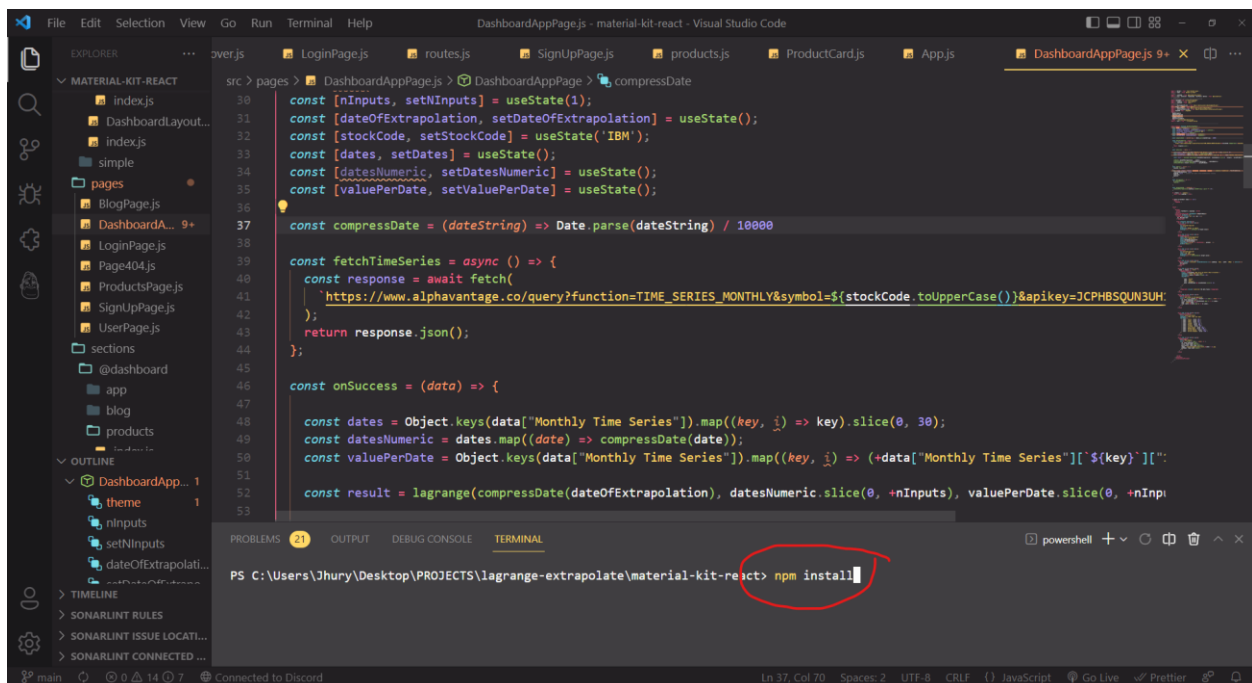
However, If you want to run the application locally, follow these steps:

## Instructions to run:

1. Install the necessary tools

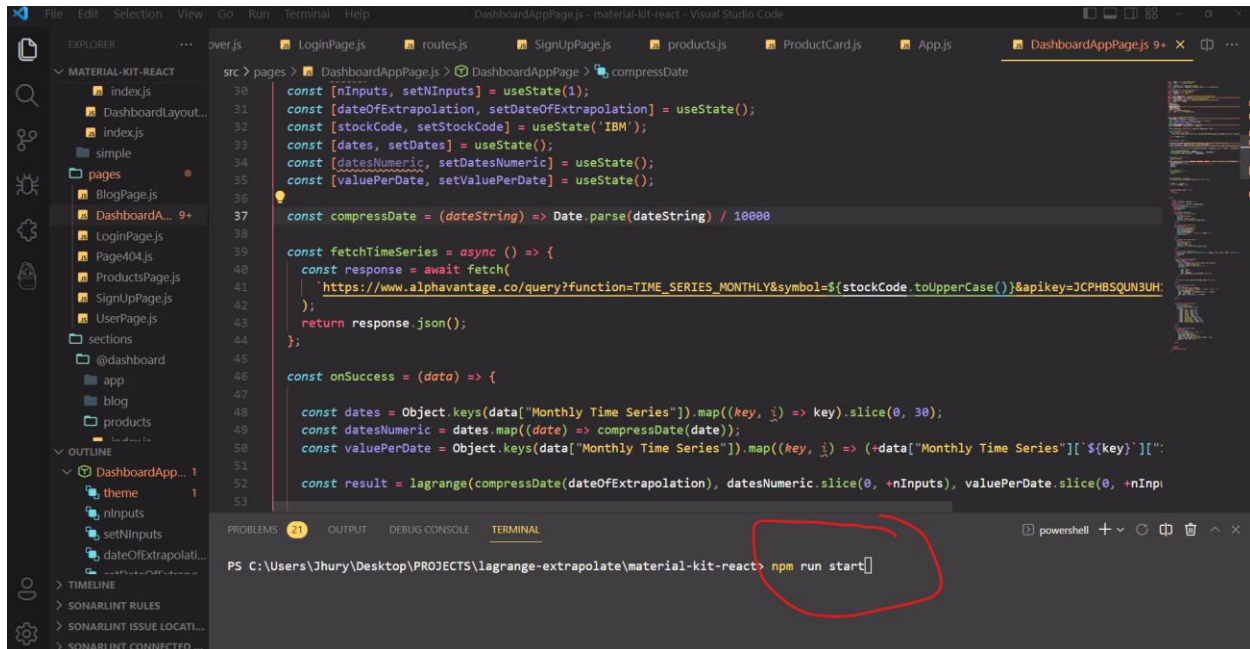
- VSCode ([Download Visual Studio Code - Mac, Linux, Windows](#))
- Node.js v16.x or latest ([Download | Node.js \(nodejs.org\)](#))

2. Once installed, open the project folder on VSCode. Open a terminal in the IDE and type(without the quotes) “npm install” to install the required dependencies.



Wait for npm to install everything.

3. Run the application. On the terminal, type “npm run start”



The screenshot shows the Visual Studio Code interface with the `DashboardAppPage.js` file open. The file contains the following code:

```
src > pages > DashboardAppPage.js > DashboardAppPage > compressDate
30
31 const [nInputs, setNInputs] = useState(1);
32 const [dateOfExtrapolation, setDateOfExtrapolation] = useState();
33 const [stockCode, setStockCode] = useState('IBM');
34 const [dates, setDates] = useState();
35 const [datesNumeric, setDatesNumeric] = useState();
36 const [valuePerDate, setValuePerDate] = useState();
37
38 const compressDate = (dateString) => Date.parse(dateString) / 1000
39
40 const fetchTimeSeries = async () => {
41   const response = await fetch(
42     'https://www.alphavantage.co/query?function=TIME_SERIES_MONTHLY&symbol=${stockCode.toUpperCase()}&apikey=JCPHBSQUN3UH';
43   );
44   return response.json();
45 };
46
47 const onSuccess = (data) => {
48   const dates = Object.keys(data["Monthly Time Series"]).map((key, i) => key).slice(0, 30);
49   const datesNumeric = dates.map((date) => compressDate(date));
50   const valuePerDate = Object.keys(data["Monthly Time Series"]).map((key, i) => (+data["Monthly Time Series"]['${key}'][""]);
51   const result = lagrange(compressDate(dateOfExtrapolation), datesNumeric.slice(0, +nInputs), valuePerDate.slice(0, +nInputs));
52 }
53
```

The terminal at the bottom shows the command `npm run start` being executed, which is circled in red.

4. To view the application, navigate to <http://localhost:3000>