

# 30 Days Of React: Fetching Data Using Hooks



LinkedIn



Follow @asabeneh

776

Author: [Asabeneh Yetayeh](#)

October, 2020

<< [Day 22](#) | [Day 24](#)>>

- [Introducing React Hook](#)
  - [Basic Hooks](#)
    - [State Hook](#)
    - [Effect Hook](#)
    - [Context Hook](#)
  - [Additional Hook](#)
- [Exercises](#)
  - [Exercises: Level 1](#)

## Fetching Data Using Hooks

In the previous sections, you have learned how to fetch data using fetch and axios. In this section, we will use the useEffect hook to fetch data. We can use fetch or axios but I prefer to use axios. In React hooks, you don't have to use componentDidMount life cycle separately to fetch data. The useEffect has incorporated the React life cycle methods (mounting, updating and unmounting). Let's convert the code we wrote on day 18 to React hooks. We need to import the useEffect from react. The useEffect takes two arguments: a callback and an array. If the array is empty, it behaves as the componentDidMount life cycle; if the array has other properties, it will behave as updating too.

```

import React, { useState, useEffect } from 'react'
import axios from 'axios'
import ReactDOM, { findDOMNode } from 'react-dom'

const Country = ({ country: { name, flag, population } }) => {
  return (
    <div className='country'>
      <div className='country_flag'>
        <img src={flag} alt={name} />
      </div>
      <h3 className='country_name'>{name.toUpperCase()}</h3>
      <div class='country_text'>
        <p>
          <span>Population: </span>
          {population}
        </p>
      </div>
    </div>
  )
}

const App = (props) => {
  // setting initial state and method to update state
  const [data, setData] = useState([])

  useEffect(() => {
    fetchData()
  }, [])

  const fetchData = async () => {
    const url = 'https://restcountries.eu/rest/v2/all'
    try {
      const response = await fetch(url)
      const data = await response.json()
      setData(data)
    } catch (error) {
      console.log(error)
    }
  }

  return (
    <div className='App'>
      <h1>Fetching Data Using Hook</h1>
      <h1>Calling API</h1>
      <div>
        <p>There are {data.length} countries in the api</p>
        <div className='countries-wrapper'>
          {data.map((country) => (
            <Country country={country} />
          ))}
        </div>
      </div>
    </div>
  )
}

```

```
    )  
  }  
  
  const rootElement = document.getElementById('root')  
  ReactDOM.render(<App />, rootElement)
```

## Exercises

---

🎉 CONGRATULATIONS ! 🎉

[<< Day 22](#) | [Day 24>>](#)