

Create A Currency Converter App

Create a simple currency converter app using Nuxt 3's `useFetch` composable and the Alpha Vantage API.

Learning Objectives:

- Utilize `useFetch` composable for data fetching.
- Integrate an external API (Alpha Vantage) into a Nuxt 3 application.
- Display dynamic data on the web page.
- Implement user interaction for currency selection.

Instructions:

1. Alpha Vantage API:

- Head over to Alpha Vantage's website (<https://www.alphavantage.co/documentation/>) and explore their Foreign Exchange (FX) API. Here, you'll find documentation and details on how to obtain a free API key.

2. Create `currency.vue`:

- In your Nuxt 3 project, create a new component file named `currency.vue` inside the `pages` directory.

3. Define Component Data:

- Inside the `<script setup>` block, define 4 reactive state variables:
 - `apiKey`: Store your Alpha Vantage API key here (replace with your actual key).

- **fromCurrency**: This will hold the selected source currency (default to "USD").
- **toCurrency**: This will hold the selected target currency (default to "EUR").
- **conversionRate**: This will store the fetched conversion rate from the API.
- **Amount**: The amount that the user will choose.

4. Currency Selection Dropdowns and amount input field:

- In the component template (<template> section), create two dropdown menus using <select> elements.
 - Each dropdown should list the available currencies (you can choose 5 different ones).
 - Bind the **fromCurrency** and **toCurrency** values to the selected options in each dropdown.
 - Then create an input field to input the amount from the user and bind it with the amount reactive state

5. Fetch Conversion Rate:

- Fetch the conversion rate from the API using useFetch() composable.

6. Display Conversion Rate:

- Display the data on the web page

7. Run the App:

