Page 1

localhost:3000

Accordion   List   Dropdown   Translate

V What is React?

React is a Javascript front-end library. It is used to show content to users and handle user events.
Engineers use React to create reusable components

> How do we show content with React?

> Why is React useful for engineers?

Page 1

localhost:3000/list

Accordion   List   Dropdown   Translate

Search

programming

Programming
Programming is the process of building a computer program

Program
A program is a collection code code that is executed on a computer

Functional Programming
Functional programming is a style of programming

Page 1

localhost:3000/c

Accordion   List   Dropd

Select Color

Red ▽

This text is red!

dropdown

own   Translate

localhost:3000/translate

Accordion   List   Dropdown   Translate

Enter Text

Hi There

Select Language

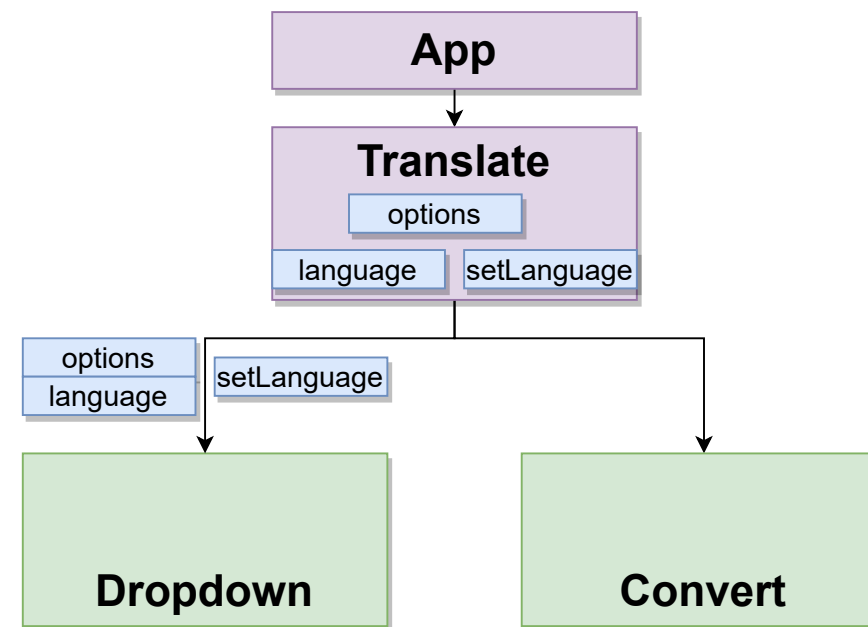Spanish   ▽

Output

Hola

options

{
  label: 'Afrikaans',
  value: 'af'
}

{
  label: 'Arabic',
  value: 'ar'
}

{
  label: 'Hindi',
  value: 'hi'
}

| { label: 'Hindi', value: 'hi' } | language | text | "Hi there!" |

Convert

A new value for 'language' or 'text' has appeared! We should convert it and show the output

Make request to Google Translate API

text + language code

Google Translate API

Update state with data from response

response

Show data from response on the screen
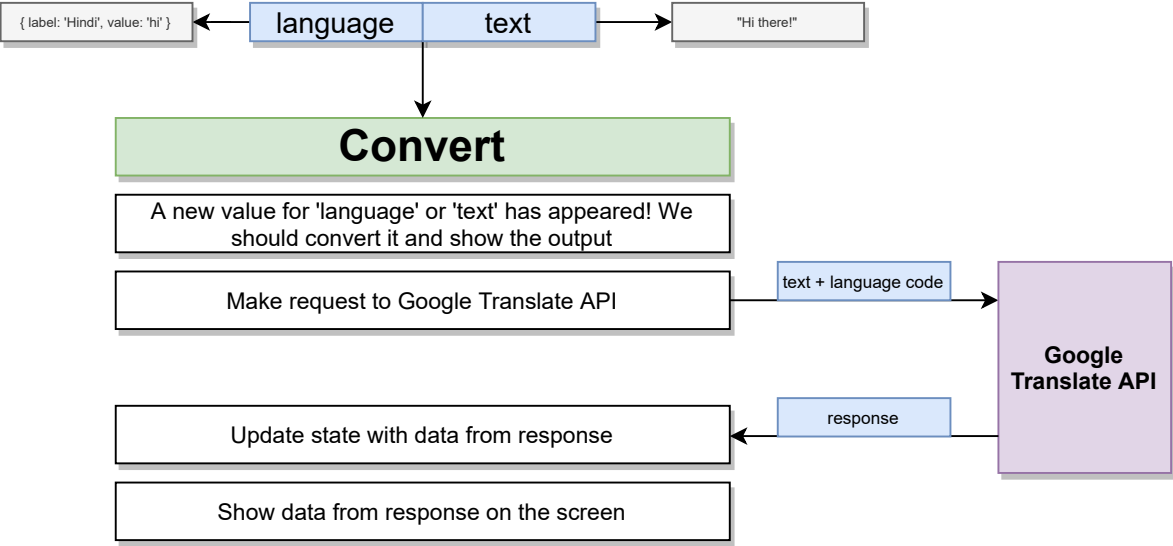
Google Translate API Docs

cloud.google.com/translate/docs

This is a **paid api**. I will give you an API key in the next text lecture that you can use for free

The API key will **only work if you are running your app on localhost:3000**

```
text === ''
        |
        v
+------------------------------+
|         useEffect #1         |
|  +------------------------+  |
|  |   Set a timer to update |  |
|  | 'debouncedText' in 500ms|  |
|  +------------------------+  |
|             |                |
|             v                |
|  +------------------------+  |
|  |  Return a cleanup function|
|  |  that cancels this timer |  |
|  +------------------------+  |
+------------------------------+


debouncedText === ''
        |
        v
+------------------------------+
|         useEffect #2         |
|  +------------------------+  |
|  |     Make a request with |  |
|  |     'debouncedText'     |  |
|  +------------------------+  |
|                              |
+------------------------------+
```