

Async/Await in React (Advanced)

Learn about the alternative syntax for handling promises: async/await.

We'll cover the following ^

- Exercises:

You'll work with asynchronous data often in React, so it's good to know the alternative syntax for handling promises: async/await. The following refactoring of the `handleFetchStories` function without error handling shows how:

```
const App = () => {  
  ...  
  
  const handleFetchStories = React.useCallback(async () => {  
  
    dispatchStories({ type: 'STORIES_FETCH_INIT' });  
  
    const result = await axios.get(url);  
  
    dispatchStories({  
      type: 'STORIES_FETCH_SUCCESS',  
      payload: result.data.hits,  
    });  
  
  }, [url]);  
  
  ...  
};
```

src/App.js

To use async/await, our function requires the `async` keyword. Once you start using the `await` keyword, everything reads like synchronous code. Actions after the `await` keyword are not executed until promise resolves, meaning the code will wait.

```
const App = () => {  
  ...  
  
  const handleFetchStories = React.useCallback(async () => {  
    dispatchStories({ type: 'STORIES_FETCH_INIT' });
```

```

    try {
      const result = await axios.get(url);

      dispatchStories({
        type: 'STORIES_FETCH_SUCCESS',
        payload: result.data.hits,
      });
    } catch {
      dispatchStories({ type: 'STORIES_FETCH_FAILURE' });
    }
  }, [url]);

  ...
};

```

src/App.js

To include error handling as before, the `try` and `catch` blocks are there to help. If something goes wrong in the `try` block, the code will jump into the `catch` block to handle the error. `then / catch` blocks and `async/await` with `try / catch` blocks are both valid for handling asynchronous data in JavaScript and React.

```

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```

Exercises:

- Confirm the [changes from the last section](#).
- Read more about [data fetching in React](#).
- Read more about [async/await in JavaScript](#).