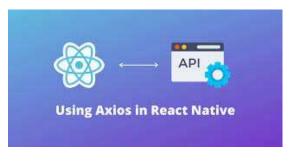


- Axios is a popular JavaScript library for making HTTP requests.
- It works both in the browser and in Node.js environments.
- > Simplifies the process of making asynchronous HTTP requests.
- Intercept request and response
- > Transform request and response data
- > Cancel requests



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> Install

\$ npm install axios
\$ yarn add axios

> Import

import axios from 'axios';

Website: https://github.com/axios/axios#axios-api

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Axios in React Native

Making GET Request

```
axios.get('https://api.example.com/data')
.then(response => {
    // Handle success
    console.log('Data:', response.data);
})
.catch(error => {
    // Handle error
    console.error('Error:', error);
});
```

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Making POST Request

```
const postData = {
  key1: 'value1',
  key2: 'value2',
};
axios.post('https://api.example.com/create', postData)
.then(response => {
  // Handle success
  console.log('Response:', response.data);
})
.catch(error => {
  // Handle error
  console.error('Error:', error);
});
```

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Axios in React Native

Making PUT Request

```
const updatedData = {
  key1: 'new_value1',
  key2: 'new_value2',
};
axios.put('https://api.example.com/update/123',
  updatedData)
  .then(response => {
    // Handle success
    console.log('Response:', response.data);
})
  .catch(error => {
    // Handle error
    console.error('Error:', error);
});
    Mobile programming
```

Making DELETE Request

```
axios.delete('https://api.example.com/delete/123')
.then(response => {
    // Handle success
    console.log('Response:', response.data);
})
.catch(error => {
    // Handle error
    console.error('Error:', error);
});
```

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Axios in React Native

Authentication with Axios

```
const authToken = 'your_auth_token';

axios.get('https://api.example.com/data', {
  headers: {
    Authorization: `Bearer ${authToken}`,
  },
})
  .then(response => {
    // Handle success
    console.log('Data:', response.data);
})
  .catch(error => {
    // Handle error
    console.error('Error:', error);
});
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```

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Example



https://snack.expo.dev/@taitv/demo-axios

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React Native FS

React Native FS is a package that allows you to easily work with the native file system in React Native

For RN < 0.57 and/or Gradle < 3 you MUST install react-native-fs at version @2.11.17! For RN >= 0.57 and/or Gradle >= 3 you MUST install react-native-fs at version >= @2.13.2! For RN >= 0.61 please install react-native-fs at version >= @2.16.0!

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Install

```
npm install react-native-fs --save
```

Note: If your react-native version is ≤ 0.40 install with this tag instead:

```
npm install react-native-fs@2.0.1-rc.2 --save
```

Import

```
import RNFS from 'react-native-fs';
```

https://www.npmjs.com/package/react-native-fs?activeTab=versions

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React Native FS

Adjust the information on the Android application

android/settings.gradle

```
include \ ': react-native-fs' \\ project (': react-native-fs').project Dir = new \ File (settings Dir, \ '../node\_modules/react-native-fs/android')
```

android/app/build.gradle

```
dependencies {
    ...
    implementation project(':react-native-fs')
}
```

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Adjust the information on the Android application

```
Register module (in MainActivity.java) import com.rnfs.RNFSPackage; // <----- add package
```

```
public class MainApplication extends Application implements ReactApplication {

// ...

@Override
protected List<ReactPackage> getPackages() {

return Arrays.<ReactPackage>asList(

new MainReactPackage(), // <---- add comma

new RNFSPackage() // <----- add package

);
}
```

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React Native FS

Read

```
import React, { useState, useEffect } from 'react';
import { View, Text, Button } from 'react-native';
import RNFS from 'react-native-fs';
const ReadFileExample = () => {
 const [readText, setReadText] = useState(");
 useEffect(() \Longrightarrow \{
     readFile();
 }, []);
 const readFile = async () => {
   const filePath = `${RNFS.DocumentDirectoryPath}/example.txt`;
   const content = await RNFS.readFile(filePath, 'utf8');
   setReadText(content);
  } catch (error) {
    console.error('Error reading file:', error);
 };
                                Mobile programming
```

Write

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React Native FS

Delete

```
const DeleteFileExample = () => {
  const deleteFile = async () => {
    try {
      const filePath =
    '${RNFS.DocumentDirectoryPath}/example.txt';
      await RNFS.unlink(filePath);
      console.log('File deleted successfully!');
    } catch (error) {
      console.error('Error deleting file:', error);
    }
};
```

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Demo

https://github.com/taitv86/DemoReactNativeFS

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Exercise

- 1. In Lab 3, Lab 4: Replacing functions using Fetch API using the Axios library.
- 2. Write a function to create a file with a 100-element integer sequence of random numbers. Then read the series of numbers and output them to the screen.

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