

# Setting up React Testing Library in a Vite App

---

## 1. Install Dependencies

For React Testing Library + Vitest:

```
npm install --save-dev vitest @testing-library/react @testing-library/jest-dom @testing-library/user-event
```

---

If you're using TypeScript, also add:

```
npm install --save-dev @types/jest
```

---

## 2. Update vite.config.js

Add the following test configuration:

```
/// <reference types="vitest" />
import { defineConfig } from 'vite'
import react from '@vitejs/plugin-react'

export default defineConfig({
  plugins: [react()],
  test: {
    globals: true,
    environment: 'jsdom', // required for React components
    setupFiles: './src/setupTests.js',
  },
})
```

---

## 3. Create setupTests.js

Inside src/ create a file called setupTests.js and add:

```
import '@testing-library/jest-dom';
```

---

## 4. Write Your First Test

Example: src/App.test.jsx

```
import { render, screen } from '@testing-library/react';
import App from './App';

test('renders hello world text', () => {
  render(<App />);
  expect(screen.getByText(/hello world/i)).toBeInTheDocument();
});
```

---

## 5. Add Test Script to package.json

Add this under scripts:

```
"test": "vitest"
```

---

## 6. Run the Tests

Run the following command:

```
npm run test
```

---