

Test-driven React.js Development: React.js Unit Testing with Enzyme and Jest

Using Jest to Create Unit Tests

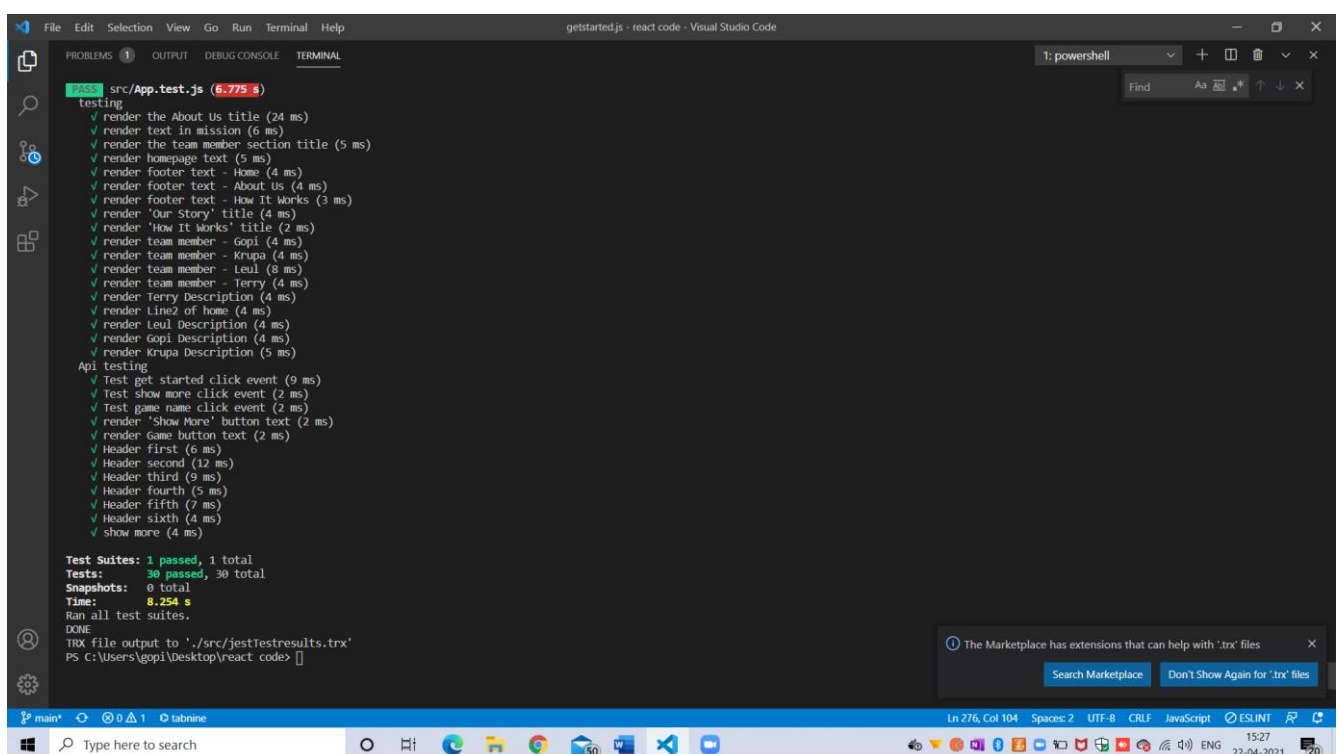
Jest is an open-source test framework created by Facebook that has a great integration with React.js. It includes a command line tool for test execution similar to what Jasmine and Mocha offer. It also allows us to create mock functions with almost zero configuration and provides a really nice set of matchers that makes assertions easier to read.

Using Enzyme to Mount React.js Components

Enzyme provides a mechanism to mount and traverse React.js component trees. This will help us get access to its own properties and state as well as its children props in order to run our assertions.

Test Cases

Total we have 30 Test Cases. And we are creating Test Results file with .trx extension



```
getstarted.js - react code - Visual Studio Code
1: powershell
Find
Aa * * * * *
↑ ↓ ×

PASS src/App.test.js (6.775 s)
  testing
    ✓ render the About Us title (24 ms)
    ✓ render text in mission (6 ms)
    ✓ render the team member section title (5 ms)
    ✓ render homepage text (5 ms)
    ✓ render footer text - Home (4 ms)
    ✓ render footer text - About Us (4 ms)
    ✓ render footer text - How It Works (3 ms)
    ✓ render 'Our Story' title (4 ms)
    ✓ render 'How It Works' title (2 ms)
    ✓ render team member - Gopi (4 ms)
    ✓ render team member - Krupa (4 ms)
    ✓ render team member - Leul (3 ms)
    ✓ render team member - Terry (4 ms)
    ✓ render Terry Description (4 ms)
    ✓ render Line2 of home (4 ms)
    ✓ render Leul Description (4 ms)
    ✓ render Gopi Description (4 ms)
    ✓ render Krupa Description (5 ms)
  Api testing
    ✓ Test get started click event (9 ms)
    ✓ Test show more click event (2 ms)
    ✓ Test game name click event (2 ms)
    ✓ render 'Show More' button text (2 ms)
    ✓ render Game button text (2 ms)
    ✓ Header first (6 ms)
    ✓ Header second (12 ms)
    ✓ Header third (9 ms)
    ✓ Header fourth (5 ms)
    ✓ Header fifth (7 ms)
    ✓ Header sixth (4 ms)
    ✓ show more (4 ms)

Test Suites: 1 passed, 1 total
Tests: 30 passed, 30 total
Snapshots: 0 total
Time: 8.254 s
Ran all test suites.
DONE
TRX file output to './src/jestTestresults.trx'
PS C:\Users\gopi\Desktop\react code>
```

