API Testing using Jest

Jest is **a JavaScript testing framework designed to ensure correctness of any JavaScript codebase**. It allows you to write tests with an approachable, familiar and feature-rich API that gives you results quickly.

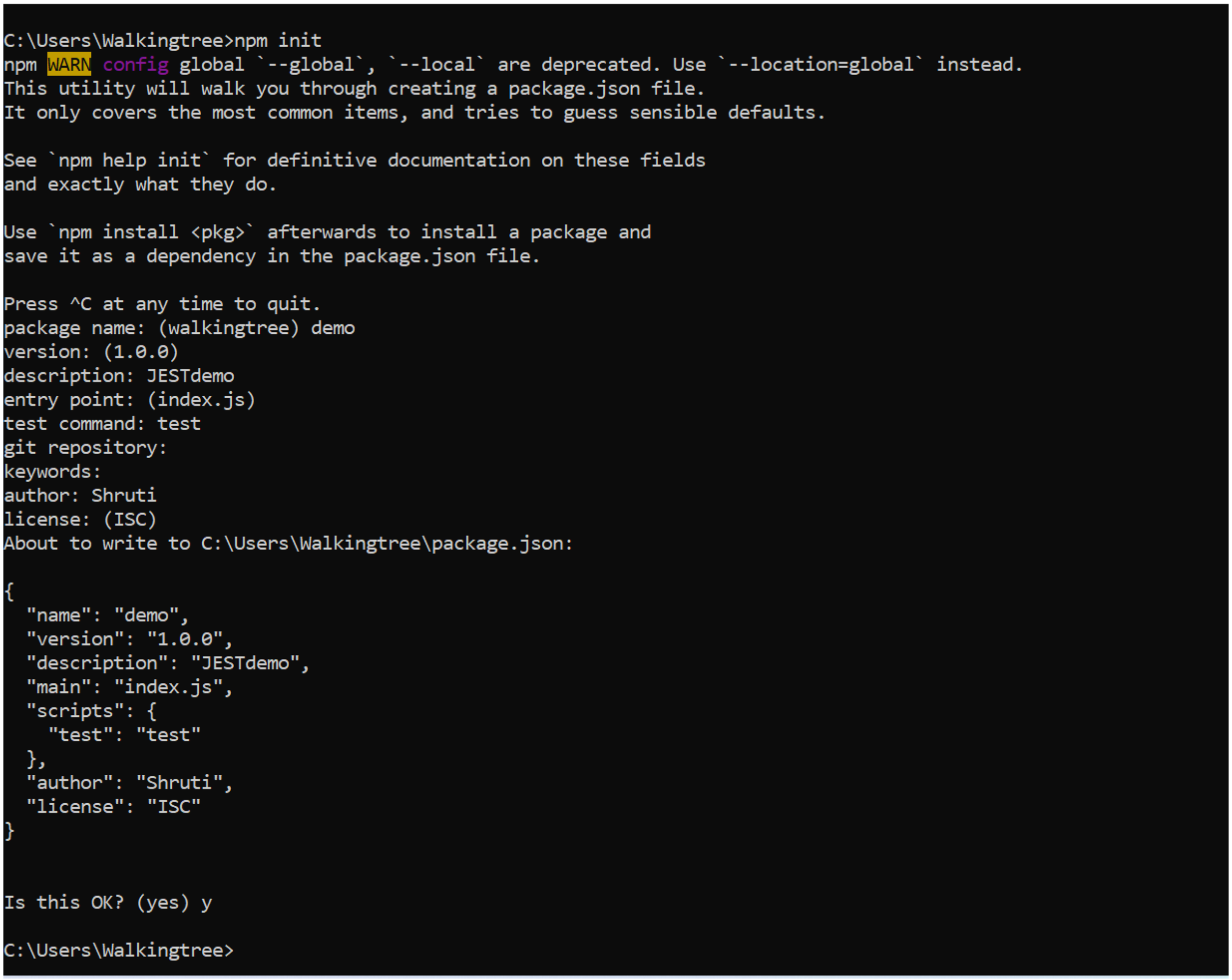
1. Create one folder under your directory like jestDemo.
2. Check npm and node install in your machine using these commands.

   npm

   OR

   npm version

   Check node install or not in your machine (**node)**
3. Create a default package using this command (**npm init**).

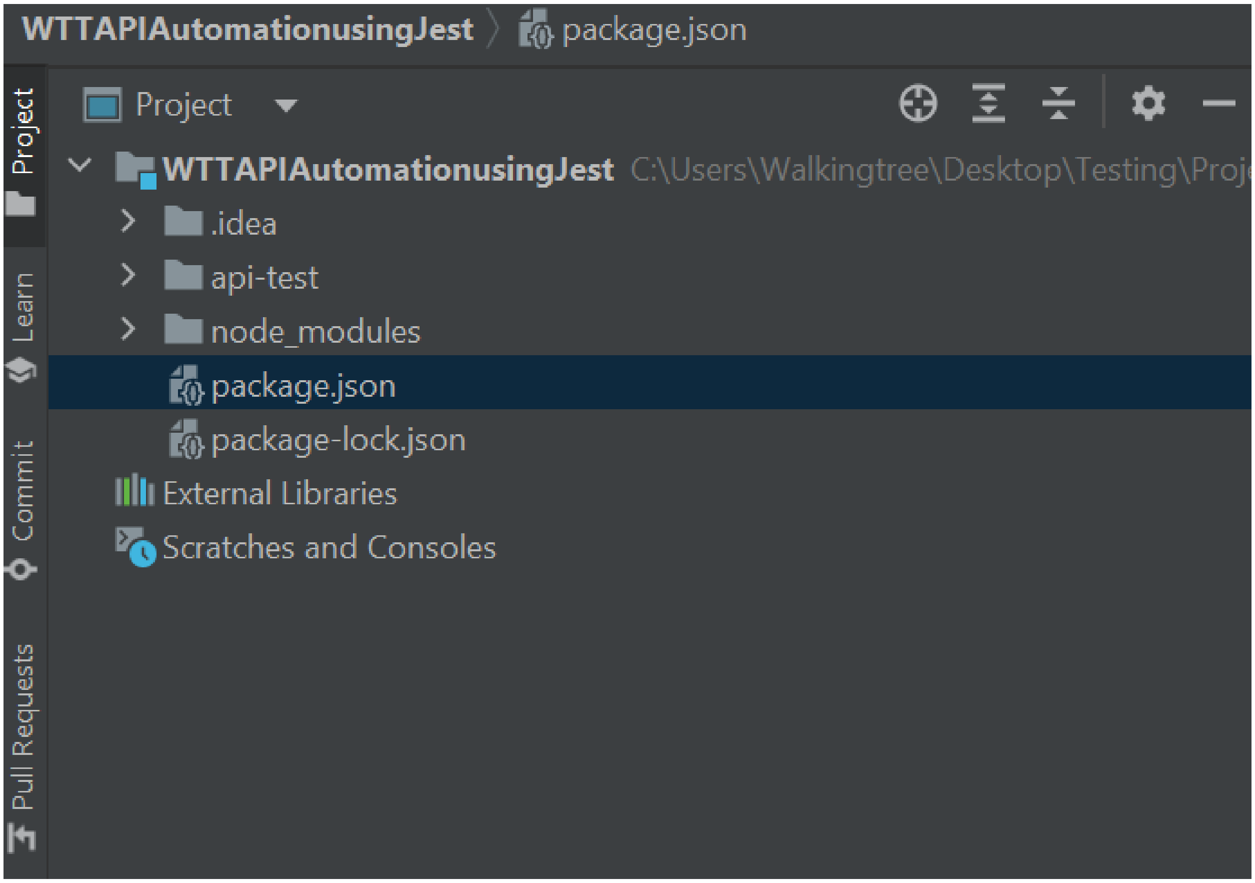


```
C:\Users\Walkingtree>npm init
npm WARN config global `--global`, `--local` are deprecated. Use `--location=global` instead.
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (walkingtree) demo
version: (1.0.0)
description: JESTdemo
entry point: (index.js)
test command: test
git repository:
keywords:
author: Shruti
license: (ISC)
About to write to C:\Users\Walkingtree\package.json:

{
  "name": "demo",
  "version": "1.0.0",
  "description": "JESTdemo",
  "main": "index.js",
  "scripts": {
    "test": "test"
  },
  "author": "Shruti",
  "license": "ISC"
}


Is this OK? (yes) y

C:\Users\Walkingtree>
```

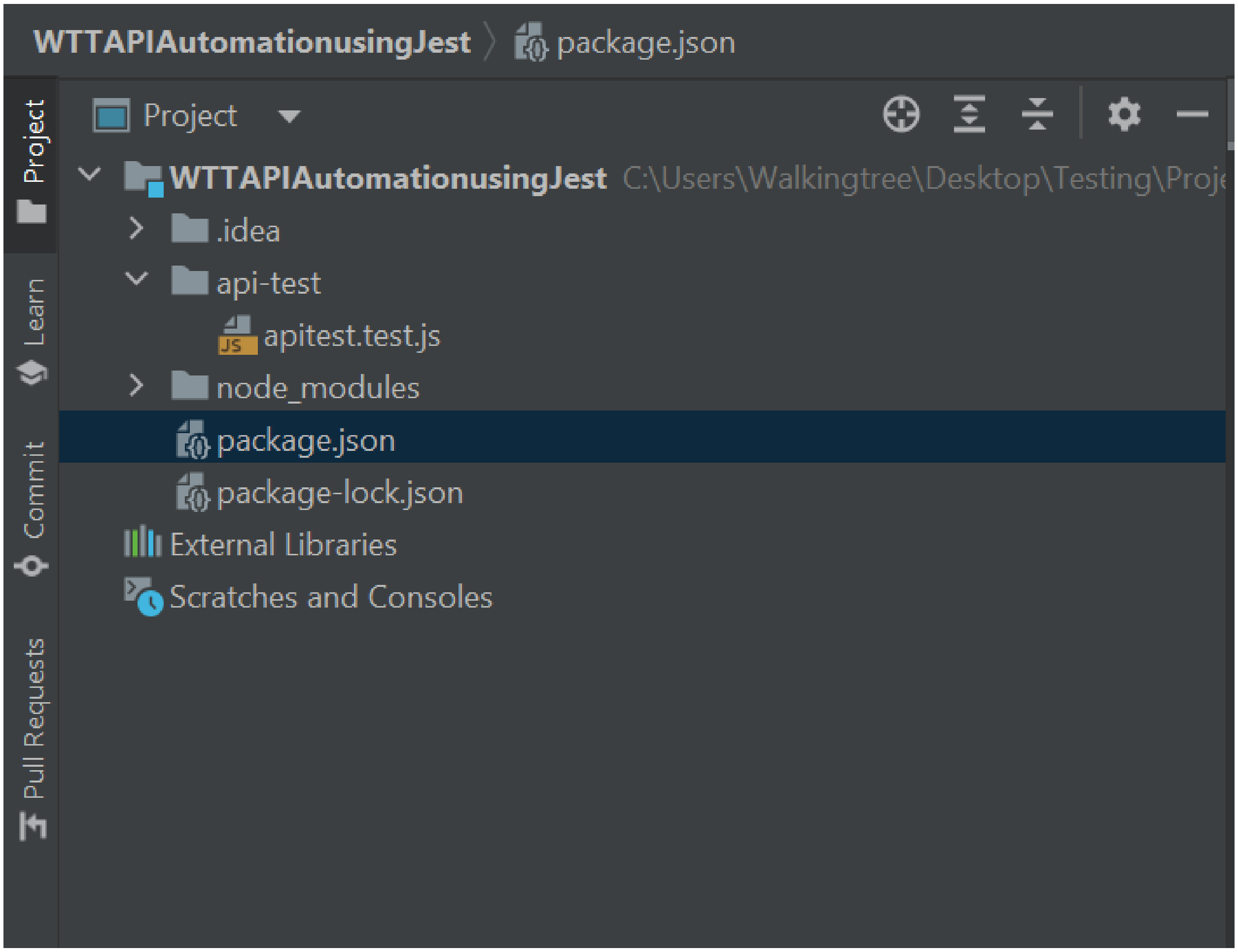
4. Install the jest using this command.

   npm install jest --save-dev

5. Open the jestDemo file in your editor.
6. Create one folder under your project like api-test.



7. Create one class under the folder structure like apitest.test.js



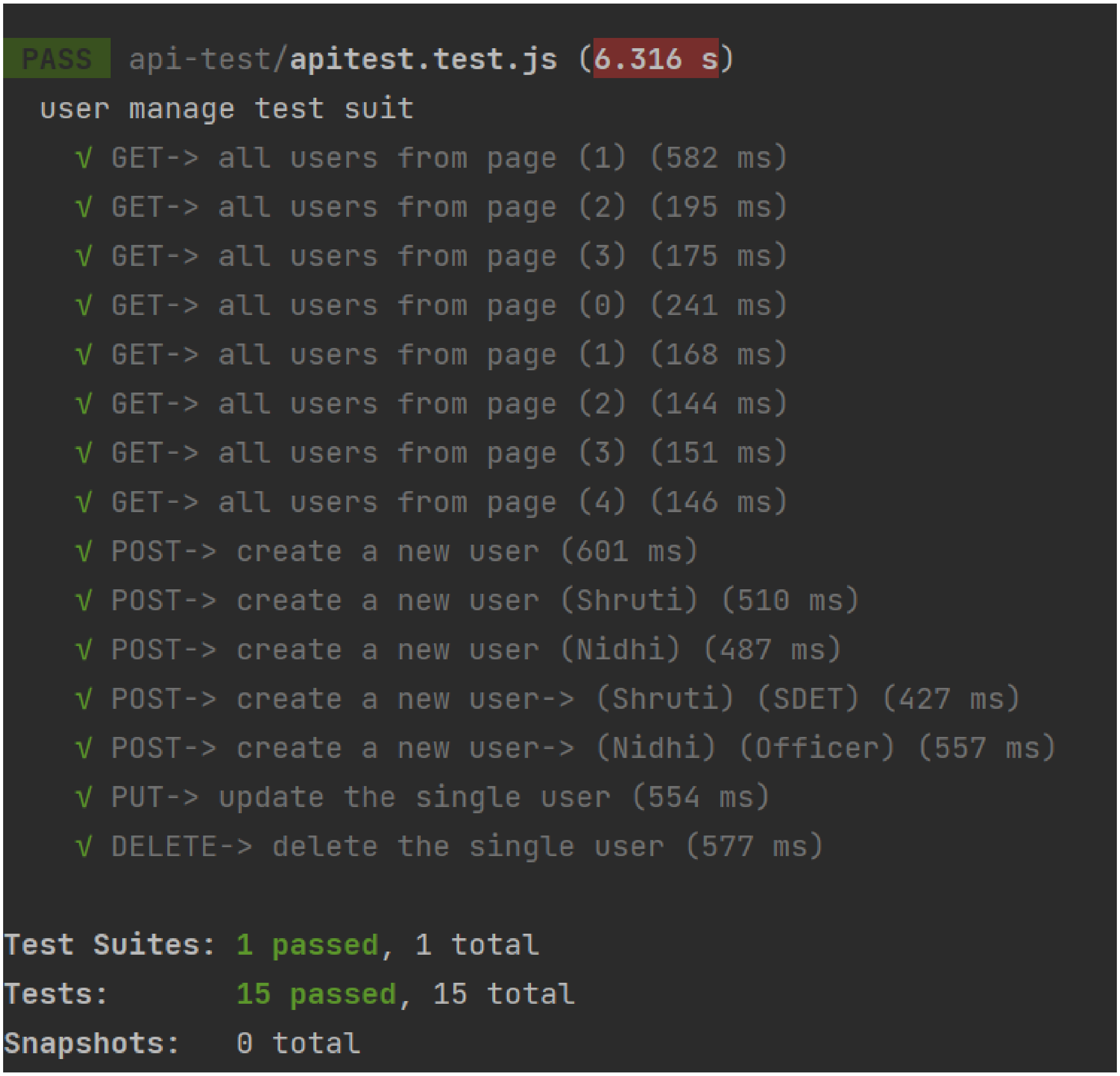
8. Design your automation script under the apitest.test.js
9. Run the test cases using this command in cmd or terminal.

```
Node_modules\.bin\jest
```

OR

```
npx jest
```

10. Get responses like that.



```
 PASS  api-test/apitest.test.js (6.316 s)
  user manage test suit
    √ GET-> all users from page (1) (582 ms)
    √ GET-> all users from page (2) (195 ms)
    √ GET-> all users from page (3) (175 ms)
    √ GET-> all users from page (0) (241 ms)
    √ GET-> all users from page (1) (168 ms)
    √ GET-> all users from page (2) (144 ms)
    √ GET-> all users from page (3) (151 ms)
    √ GET-> all users from page (4) (146 ms)
    √ POST-> create a new user (601 ms)
    √ POST-> create a new user (Shruti) (510 ms)
    √ POST-> create a new user (Nidhi) (487 ms)
    √ POST-> create a new user-> (Shruti) (SDET) (427 ms)
    √ POST-> create a new user-> (Nidhi) (Officer) (557 ms)
    √ PUT-> update the single user (554 ms)
    √ DELETE-> delete the single user (577 ms)

Test Suites: 1 passed, 1 total
Tests:       15 passed, 15 total
Snapshots:   0 total
```