

How to setup dependency and execute code and unit test.

1. Install Jest and TypeScript support for Jest by running the following commands:

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

2. Open your package.json file and add a test script:

```
"scripts": {  
  "test": "jest"  
},
```

3. Create a jest.config.js file in your project root directory to configure Jest. You can use the following configuration:

```
module.exports = {  
  preset: 'ts-jest',  
  testEnvironment: 'node',  
  moduleFileExtensions: ['ts', 'tsx', 'js', 'jsx', 'json', 'node'],  
  transform: {  
    '^.+\\.tsx?$': 'ts-jest',  
  },  
};
```

4. Run the test:

```
npm test
```