Diagram

Description automatically generated with low confidence

Configure JEST (Unit Test) in Nodejs + Angular

# Configure JEST - Unit Testing framework

### Install Jest

|  |  |
| --- | --- |
|  | npm install jest @types/jest jest-preset-angular --save-dev |

### Uninstall Karma

|  |  |
| --- | --- |
|  | npm uninstall karma karma-coverage karma-chrome-launcher karma-coverage-istanbul-reporter karma-jasmine karma-jasmine-html-reporter @types/jasmine @types/jasminewd2 jasmine-core jasmine-spec-reporter |

### Remove test from angular.json

Remove the test section from angular.json, this section looks like the following:

|  |  |
| --- | --- |
|  | "test": {  "builder": "@angular-devkit/build-angular:karma",  "options": {  "main": "src/test.ts",  "polyfills": "src/polyfills.ts",  "tsConfig": "tsconfig.spec.json",  "karmaConfig": "karma.conf.js",  "assets": [  "src/favicon.ico",  "src/assets"  ],  "styles": [  "src/styles.scss"  ],  "scripts": []  }  }, |

### Remove karma.conf.js and src/test.ts files

### Create setupJest.ts file

|  |  |
| --- | --- |
|  | import 'jest-preset-angular/setup-jest'; |

### Modify tsconfig.spec.json

|  |  |
| --- | --- |
|  | {  "extends": "./tsconfig.json",  "compilerOptions": {  "outDir": "./out-tsc/spec",  "types": [  "jest",  "node"  ],  "esModuleInterop": true,  "emitDecoratorMetadata": true  },  "files": [  "src/polyfills.ts"  ],  "include": [  "src/\*\*/\*.spec.ts",  "src/\*\*/\*.d.ts"  ]  } |

### Modify package.json file:

Modify the test scripts to the following:

|  |  |
| --- | --- |
|  | "test": "jest --clearCache && jest --coverage", |

Add Jest configuration to the end of this file:

|  |  |
| --- | --- |
|  | "jest": {  "preset": "jest-preset-angular",  "setupFilesAfterEnv": [  "<rootDir>/setupJest.ts"  ],  "testPathIgnorePatterns": [  "<rootDir>/node\_modules/",  "<rootDir>/dist/"  ],  "globals": {  "ts-jest": {  "tsconfig": "<rootDir>/tsconfig.spec.json",  "stringifyContentPathRegex": "\\.html$"  }  }  } |

### Modify tsconfig.json file:

Add to tsconfig.json:

|  |  |
| --- | --- |
|  | "allowSyntheticDefaultImports": true, |