Meteor Installation Guide

1. Meteor Project
2. React
3. Material-UI  
   meteor npm install material-ui@next
4. Jest, Enzyme for Test
   1. Some special changes in ordert o get it working with meteor
5. Type-Script  
   [<https://medium.com/@birkskyum/modern-meteor-development-with-typescript-1-integrate-typescript-with-meteor-905c13edbec8>]  
   
   1. Add type script compiler  
      meteor add barbatus:typescript
   2. Installing type definitions

meteor npm install @types/meteor –save

npm install --save @types/material-ui. //not for 1.0.0 beta version next

* 1. Configure Typescript   
     Create tsconfig.json

|  |
| --- |
| { |
|  | "compilerOptions": { |
|  | "target": "es5", |
|  | "module": "commonjs", |
|  | "moduleResolution": "node", |
|  | "alwaysStrict": true, |
|  | "sourceMap": true, |
|  | "jsx": "react", |
|  | "allowJs": false, |
|  | "noImplicitAny": false, |
|  | "strictNullChecks": false |
|  | }, |
|  | "include": [ |
|  | "client/\*\*/\*", |
|  | "server/\*\*/\*" |
|  | ], |
|  | "exclude": [ |
|  | "node\_modules", |
|  | ".meteor" |
|  | ] |
|  | } |

* 1. npm install -g tslint typescript
  2. Install TSLInt for visual code
  3. Configre TSLInter via  
     tslint.json
  4. npm install @types/prop-types
  5. yarn add -D typescript jest ts-jest @types/jest  
     (Quelle: <https://medium.com/@mtiller/debugging-with-typescript-jest-ts-jest-and-visual-studio-code-ef9ca8644132>)
  6. yarn add enzyme-adapter-react-16 enzyme
  7. yarn add -D jest react-test-renderer @types/enzyme
  8. yarn add -D @types/enzyme-adapter-react-16
  9. Configuring Jest + Enzyme + Typescript  
     (Quelle: <https://medium.com/@mateuszsokola/configuring-react-16-jest-enzyme-typescript-7122e1a1e6e8>)
     1. create three files:
        1. **test-preprocessor.js** — to transpile test files written in Typescript to JavaScript.
        2. **test-setup.js** — to setup enzyme to use React 16.
        3. **test-shim.js** — to get rid of warnings regarding missing browser polyfills.
     2. modify the package.json file and add the jest property to its content.

|  |
| --- |
| "name":"open joblist", |
|  | ... |
|  | "jest": { |
|  | "setupFiles": [ |
|  | "<rootDir>/test-shim.js", |
|  | "<rootDir>/test-setup.js" |
|  | ], |
|  | "moduleFileExtensions": [ |
|  | "ts", |
|  | "tsx", |
|  | "js" |
|  | ], |
|  | "transform": { |
|  | "^.+\\.(ts|tsx)$": "<rootDir>/test-preprocessor.js" |
|  | }, |
|  | "testMatch": [ |
|  | "\*\*/\_\_tests\_\_/\*.(ts|tsx|js)" |
|  | ] |
|  | }, |

* 1. Sdf

Quellen: