## **NPM**

Wednesday, March 16, 2022 2:34 PM

## Another Major Reason to use NodeJS is NPM (Node Package Manager)

- · Why do you use smart phone?
  - o To Make phone call?
    - Even non-smart phone can do it.
  - o Web browsing.
- Which is the most important app in your phone?
  - o Playstore.
    - . This is the main reason for having a smart phone!
    - This is what makes your phone smart and extensible
      - · You get everything else from here!

### NPM is the 'playstore' of NodeJS ecosystem

- . NPM is a like a huge market place for components needed for web application development
- It includes libraries like
  - JavaScript libraries
    - Browser Libraries
      - React
      - Angular
      - Vue
      - Jquery
    - Server Side libraries
      - Express
      - Mongo
    - Testing library
      - Jest
      - Karma
  - o Executable libraries
    - · Project Buiding tools like
      - Webpack
      - Gulp
      - Grunt
    - Transpilers like • Typescript
      - Babel
    - Runtimes like
      - Liveserver
    - Nodemon • Testing Frameworks
      - Karma
      - Jasmine
      - Jest
  - o Non Javascript libraries
    - CSS
      - Bootstrap
      - Font-awesom
  - o ... (More than 6,50,000 components existed in 2018)
- For more details visit https://npmjs.org

# NPM Also provides a simple project management structure

- . All projects we create today with node ecosystem, we create as an npm project
  - Including
    - · Frontend projects like
      - React
      - Angular
      - Mobile development projects like
        - Flutter
        - ReactNative
- A Node project is simply a folder with a special package.json and node\_modules folder

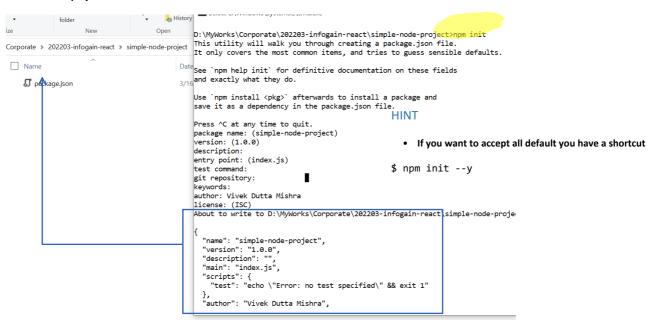
### **NPM Project**

#### **IMPORTANT!**

50% + People use NodeJS, not because they want to write non-browser based application, but because they want to use NPM which is a part NodeJS

3/17/22, 12:27 AM OneNote

#### 1. Create a project folder



```
1) package.json U ×
{} package.json >
  Debug
"scripts": {
  "test": "echo \"Error: no test specified\" && exit 1"
      },
"keywords": [],
"author": "",
"license": "ISC"
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                     > cmd + ~ □ 🛍
Microsoft Windows [Version 10.0.19044.1586]
(c) Microsoft Corporation. All rights reserved.
```