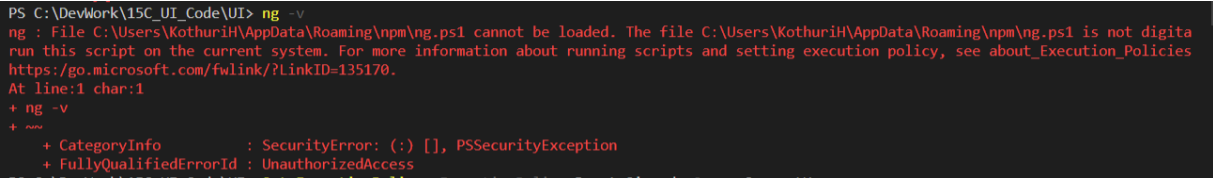# Angular Installation

- To install angular the first step is installing node and npm
- Once the installation of node and npm is complete then run the following commands in command prompt or Visual studio code - Terminal to check the angular version if already installed
  - Node – v (9.5.0)
  - Npm –v (5.6.0)
- If the above commands produce output with versions then you have the initial things for installing angular. If not you have to download the node.js latest version which internally has the npm related things.
- After Installation of Node.js hit the above commands to get the version of node & Npm installed
- Use below command to download a specific version of angular
  - **"npm install -g @angular/cli@1.7.1"** (15c rebuild version) . Please download this version for the project setup.
  - **"npm install –g @angular/cli"** (For Ref: to Install the latest version)
- If download does not start then check whether proxy is enable or not "Proxy should be enabled" to proceed further (Mainly for India team)
- After the successful completion of installation re-run the node & npm commands mentioned above
- Now run the following **"ng"** command in command prompt to detect the angular is installed globally and whether it is accessible
- If you face any issue stating "ng " or if "ng" is not recognized then you need to cross verify few config related settings
  - Setting the Environmental variable for two locations mentioned below

    - Goto mypc -> windows properties -> Advanced system settings -> Environmental Variable -> System variables path -> add the following -> Ok to confirm changes
    - C:\Users\(Username)\AppData\Roaming\npm (AppData is hidden Folder)
    - C:\Users\(Username)\AppData\Roaming\npm\node_modules\@angular\cli\bin
  - Editing the .npmrc file present in C:\Users\(useraccount folder)

    - Open the file in Notepad++
    - Copy and paste the content in the .npmrc file and Edit the file with your SystemUsername and Password.
  - Run the ng –version in the command prompt or Terminal window of Visual studio code you get the version details
- If still ng -v is returning below error

```
PS C:\DevWork\15C_UI_Code\UI> ng -v
ng : File C:\Users\KothuriH\AppData\Roaming\npm\ng.ps1 cannot be loaded. The file C:\Users\KothuriH\AppData\Roaming\npm\ng.ps1 is not digita
run this script on the current system. For more information about running scripts and setting execution policy, see about_Execution_Policies
https://go.microsoft.com/fwlink/?LinkID=135170.
At line:1 char:1
+ ng -v
+ ~~
    + CategoryInfo          : SecurityError: (:) [], PSSecurityException
    + FullyQualifiedErrorId : UnauthorizedAccess
```

  - Execute the below command in Visual studio code Terminal to resolve the above error
    - Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope CurrentUser
    - follow this link
- Now you will be able to run the angular projects

Problems faced after pulling the angular code from GIT Repository

- After cloning the project code folder from repository to Local folder
- Open the folder in Visual studio code and try to build the project in terminal window with the following command **"Ng build"**
- If throws an exception "node_modules appears empty" then run following commands
  - **"npm install"**
  - **"npm start"**
- Now build the solution again (**ng build**) and run the project using **"ng serve"**
- Above command outputs a URL, copy and paste to browser now your application runs

Angular Up-gradation

- Before going to upgrade Angular version, Make sure **node** version should be **12.13.1 or later** and **npm** version should be 6.14.5
- delete node_modules and package-lock.json
- Execute the below commands
  - npm install (to download the node_modules)
  - npm install -g @angular/cli@9.1.9
- Need to set the following paths under System Environment Variable path (if paths are not available)
  - C:\Users\ (Username)\AppData\Roaming\npm
  - C:\Users\ (Username)\AppData\Roaming\npm\node_modules\@angular\cli\bin