1. what is Angular?

Angular is JS framework and developer platform used to build single page applications(SPA) and Progressive Web Apps(PWA)

Angular is developed and maintained by Google

2. what is the difference between Angular and Angular JS?

Angular JS uses JS , developed by Google in 2010.

Angular uses TS, developed by Google in 2012. TS is developed by Microsoft

3. what is difference between React and Angular?

React is a JS library wheareas Angular is a JS framework

React uses one way data binding. Angular uses two way data binding

React uses other packages for different purposes

Angular has an architecture and will complete the application without other packages

4. what is the difference between library and framework?

library is pre written code used for specific purposes

framework is a complete package of architecture , can used

 for multiple purposes

Installation:

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you must have already installed node js, npm.

goto cmd, type following command

"npm install -g @angular/cli"

To check whether angular installed correctly or not, we can use

"ng v" command

Note: Angular use command line interface to generate / delete/update any of its components,directives etc..,

This technique of using command prompt for everything is called scaffolding

start first Angular application

Goto vs code , open a specific folder ,

goto terminal, goto specific folder

"ng new app-name --standalone=false"

folder structure:

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tsconfig -- it sets rules to typescript compiler

tsconfig.json -- main tsconfig file for whole project

tsconfig.app.json -- tsconfig file for only app

tsconfig.spec.json -- specification tsconfig file is for testing

README.md -- it is for instructions

package.json- it is the metadata of your project

package-lock.json -- it is the meta data about package.json

angular.json-- angular settings are here

.gitignore -- these files are ignored by giti

editorConfig -- it balances multiple

editor for single application

public -- folder for public(for images,robots)

node-modules -- all packages are stored here

src --

index.html -- it is the main html and it is having app-root by default

main.ts -- main typescript file which is bootstrapping (converting static dom to dynamic dom) APP MODULE

styles.css -- main css file which is empty by default

app -- it contains

  routing modules

  component files

  app module

component: component is the building block of User Interface

component file contains

  -- css -- for styling

  -- html -- for view/structure -- also called template

  -- ts -- for model/logic/controller -- also called component file

  -- spec.ts -- for testing

To Run Angular Application: ng serve -o

To Build Angular Application: ng build