Quick Revisit (Day1 – Day3)

Node – JavaScript RUN Time Environment (Using Chrome v8 Engine)

NPM – Node Package Manager ( Manage all the dependencies of JS framework)

Angular CLI – Angular Command Line Interface

1. Creating Angular Application (node –v, npm –v, npm I –g @angular/cli, ng new <app\_name>)
2. Scripts (ng serve, ng build, ng test, ng e2e)
3. Testing (Unit Testing, Integration Testing, e2e Testing)
4. Jasmine, Karma
5. Jasmine - Unit Testing Framework (JavaScript)
6. Downloading and Installing Jasmine (Jasmine stand-alone, using npm)
7. Describe(“String arg- name of the test suite”, function [normal/arrow]);
8. It(“test case name”,function[normal/function]);

Nodejs -- C:\Program Files\nodejs (Default Installation Folder)

Maven Local repo - C:\Users\<username>\.m2\repository (Java project dependent jar files)

Nodejs will help to run the JS code outside the browser. ( Async JS is easy)

JS – Stand-alone/desktop app, web app, mobile based app, responsive app (desktop/laptop/tablet/mobile/smart devices)

Npm installation can be done in two ways

1. Local Installation ( Install the dependency in the current folder - node\_modules) – Available only in that particular folder
2. Global Installation (npm install –g <dependency\_name>) -- C:\Users\syska\AppData\Roaming\npm

Ng serve – (It compiles the angular app and deploy it in local server using the default port 4200)

Ng build – (Will package the angular app and create dist folder )

Ng test – It will execute all the unit test code using jasmine (unit testing framework for js) and karma (Test Runner)

Ng e2e – Integration Testing will be done using this command (protractor)

Jasmine – Unit Testing Framework for JAVA SCRIPT

Karma

1. Agile Methodology – Sprint based, Product Backlog, Sprint Backlog & Burndown charts
2. Jasmine – BDD ( Behaviour Driven Development) – Test the behaviour & write the application code
3. TDD Test Driven Development - Write test case first and write the application code)

Jasmine stand-alone download url -- <https://github.com/jasmine/jasmine/releases>

Karma - Is a Test Automation Tool created by Angular Team

Jasmine – Unit Testing Framework for JAVASCRIPT.

Installing Karma

Step 1: Installing core karma libraries & other dependencies

“npm install karma karma-chrome-launcher karma-jasmine”

Karma – This is core karma library

Karma-chrome-launcher – It’s a library which enables karma commands to be recognized by the chrome browser.

Karma-jasmine - This will install jasmine – dependent framework for karma

Step 2: Installing karma Command Line utility (interface)

“npm install karma-cli” (npm I –g karma-cli)

Step 3: Configuring Karma framework

“karma –init” --- this will create karma.conf.js file automatically

Task : Create a component called “mobile” and write the unit testing code to check it’s title as “My Mobile Component”.

Task2 : Goto <https://www.themoviedb.org/> Create a free account. And access movie end point.

Create a interface called Movie with following properties.

Id: number;

Title:string;

Vote\_average:number;

Vote\_count:number;

Release\_date: string;

Budeget:number;

Homepage:string;

Revenue:number;

And write unit test case to check the output.

https://api.themoviedb.org/3/movie/550?api\_key=a9a201c957a52859916ab1a66cb3d5e7