**INSTALLATIONS**

**Visual Studio**

Search for “code.visualstudio.com”

Download

Click on 64bit

**BOOTSTAP**

search for bootstrap.com

download

unzip the file

and save/copy it inside bootstrap folder

**JAVASCRIPT**

search jQuery.com

select download

right click on Download the uncompressed, development jQuery 3.4.1

save it into inside bootstrap folder

**Ready Codes**

Search for get bootstrap.com

Go to Documentation

Components (Left side of Screen) = here we will get all readymade programs

Search for [https://fontawesome.com](https://fontawesome.com/)

Go to icon

Select any icon

Paste it at Navbar

Bootstrap 3 Snippets

Install bootstrap 3 snippets inside visual studio because of these only bootstrap tag will work.

**To Install TypeScript**

Website nodejs.org

Download 12.13.0 LTS(Long Term Support)

Right click on it and run as administrator

Next-next-next-install

CMD

-v

npm -v

(if we get error as node is not recognized

Appdata > roaming > npm > copy that path and set it(Environment variable)

Go to program files> nodejs>copy path and set )

Open command prompt

npm install -g typescript > enter

tsc > enter

**Typescript operation**

search for [systemjs@0.19.36](mailto:systemjs@0.19.36)

then open systemjs-npm

basic use browser -copy it

**Install ANGULAR**

Install angular CLI -> npm i @angular/cli

ng –version

then type 🡪 cd desktop

then create new folder on desktop and open it into cmd

then type 🡪 ng new first-app

then click N

select CSS 🡪 Enter (if get error delete folder new app and again do same process from ng new first-app )

if it shows ‘git’ is not recognized then its ok

Done

Then go to first-app folder open it, there will be 15 files then select path and open cmd

ng serve

once get compiled successfully

go to chrome search for localhost:4200

if we get first-app is running then app is installed successfully

open folder cmd

code .

install bootstrap and jquery:

npm install bootstrap npm install jquery

check wheter this files are present in node\_module or not

then go to angular.json

line 27: “src/style.css”,

Line 30:

"styles": [

              "src/styles.css",

              "node\_modules/bootstrap/dist/css/bootstrap.css",

              "node\_modules/bootstrap/dist/css/bootstrap.min.css"

            ],

            "scripts": [

              "node\_modules/jquery/dist/jquery.js",

                "node\_modules/bootstrap/dist/js/bootstrap.bundle.min.js"

              ]

          },

Do Enjoy…!!!

**Servlets**

Search for <https://tomcat.apache.org> or search for download tomcat

On right side of screen in downloads select tomcat 8

Then go for 8.5.47 and download [32-bit/64-bit Windows Service Installer](https://www-eu.apache.org/dist/tomcat/tomcat-8/v8.5.47/bin/apache-tomcat-8.5.47.exe) ([pgp](https://www.apache.org/dist/tomcat/tomcat-8/v8.5.47/bin/apache-tomcat-8.5.47.exe.asc), [sha512](https://www.apache.org/dist/tomcat/tomcat-8/v8.5.47/bin/apache-tomcat-8.5.47.exe.sha512))

Next 🡪 I Agree 🡪 full 🡪 next 🡪 server shutdown post : 8005 username: admin password: admin 🡪 next 🡪 jre location 🡪 next 🡪 install 🡪 uncheck both options 🡪 Finish

Set the following 2 Environment Variables:

Go to system variables select 2nd edit select 1st path and add it into variable value and give variable name as JAVA\_HOME

1. JAVA\_HOME= C:\Program Files\java\jdk 1.6.0\_27
2. CATALINA\_HOME= C:\Program Files\Apache Software Foundation\Tomcat8.5

* Go to “<Tomcat\_Location>\bin” folder & double click on “startup.bat” or “startup” file
* After above step, Server should start without throwing an exception in the Console
* If server throws an exception, then it means that server started in “Exception Mode”
* In this case most likely there is a problem in setting up the Environment Variables
* To Shutdown the Web Server

Close the Console Window OR

Use ctrl+C OR

Go to ‘<Tomcat\_Location>\bin

Create new folder and open that path in eclipse create new maven project in that select maven-archtype-webapp

If getting Error while Creating Maven project :

Serch for Archtype cannot be resolved

Open stackOverFlow in that select link of catalog file

Go to eclipse

Expant maven and select archtype 🡪 Add Remote Catalog and paste link and give name as catalog file

Create new maven project catalog: remote\_catalog filter: maven-archtype-web

Select org.apache.maven 🡪 next

To Change JRE :

Pom.xml: line 18 => </dependencies>

<properties>

(Change java version permanently)

**<maven.compiler.source>1.8</maven.compiler.source>**

**<maven.compiler.target>1.8</maven.compiler.target>**

</properties> save it and then update maven project.

Search for maven repository 🡪 inside repository search for servlet 🡪 Java Servlet API🡪 select 3.1.0 most used version copy that path 🡪 pom.xml inside </dependencies> and outside </dependency> paste that code

Main -> webapp-> webIMF ->Delete web.xml

Write click on project🡪 show in system explorer 🡪 empwebapp🡪 settings🡪 select project.facet.core open in notepad => change facet version to 3.0 and java to 1.8 save it and close -> then go to eclipse and update your maven project by right click on project🡪 maven🡪 update maven project🡪 then right click on project JEE Tool🡪 deploy (web.xml will automatically will get created)

IF SRC/MAIN/RESOURCES IS NOT PRESENT:

Write click on project🡪 configure build path🡪 java build path🡪order and export 🡪 check boxes🡪 apply and close

IF SERVER GIVES ERROR WHILE RUNNING:

Run cmd as administrative 🡪 netstat -ano |findstr :8080 🡪 enter 🡪 taskkill /f /pid (listening) 🡪 ok

Run server

HOW TO MAKE REQUEST:

Go to browser 🡪 <http://localhost:8080/empwebapp/date.html>

(port)/(application name)/(file name) 🡨 it is case sensitive

**INSTALLATION OF FIDDLER APPLICATION/ TOOL :**

Go to google 🡪 search for fiddler download (telirik.com)🡪 no need to give original personal email Id 🡪 accept and go 🡪 it will start downloading

Run as administrator 🡪 I agree 🡪 Install 🡪 Then close 🡪 Open fiddler

**SQLYog :**

Search for SQLYog🡪 go for webYog.com 🡪 download free trial 🡪 next Install don’t change anything 🡪 trial🡪 password should same as my sql (tiger) 🡪 connect

**STS(Spring Tool Suite)**

Download STS 🡪 Download STS 🡪 3.9.8 🡪 4.11(should be same as eclipse version 🡪eclipse help and go to About Eclipse IDE) 🡪 WIN.64 bit zip

**If We are not able to create sts spring starter project**

Chrome 🡪 search for start.sping.io 🡪 project maven 🡪 spring boot 2.1.10 🡪 project metadata – com.capgemini 🡪 artifact – springboot 🡪 dependency – web – springweb 🡪 generate 🡪 download it 🡪 copy springboot from that folder and paste it anywhere 🡪 open eclipse 🡪 import that maven springboot project (file import exixting maven project – root directory springboot – we will see pom.xml – finish )

**Selenium**

Selenium.dev 🡪 downloads 🡪 download latest version Latest stable version [**3.141.59**](https://bit.ly/2TlkRyu)

Selenium stand alone 🡪 selenium java 🡪 3.141.59 🡪 add dependency

🡺 Download Chrome Driver

Selenium.dev 🡪 downloads 🡪 Browser 🡪 chrome documentation 🡪 select your chrome version 🡪 download

**Add Dependencies =**

Poi – 4.0.1

Poi – 00xml

Common.io

Eclipse – help – market place – search for testng – go to more options

🡺If not found in eclipse market place

Testing.org – download tag – scroll down – update site for release – go to eclipse – help - install new software – work with paste url

If not compatible

Add dependency

Go to maven repository – testing – 6.14.3 – and remove scope

Search for jar-download – search for cucumber java(Group : info.cukes) – download 1.2.5

PROJECT TOMCAT service link 🡪 search for apache 8.5 🡪 browse 🡪 c/program/apache 🡪 select 🡪 finish

New Repository 🡪

TY\_CG\_HTD\_<batch name>\_JFS\_<name(FIRSTNameLastName)> 🡪 do nothing direcly create repository 🡪 instead of using github on browser go for GitBash

(gitbash we have to de some operations manually not automatically)

Search for GitBash for windows 🡪 Download 🡪 also download TortoiseGit

**GITBASH**

git 🡪 all Common commands

SONARQUBE

Search for sonarqube.org download 🡪 download community edition 🡪

<http://maven.apache.org/download.cgi> 🡪 files 🡪 apache-maven-3.6.3-bin.zip

Jenkins.io.download/ 🡪 **Download Jenkins 2.190.3 for: 🡪 windows**

**[SonarScanner | SonarQube Docs --> windows x 64 bit](https://docs.sonarqube.org/latest/analysis/scan/sonarscanner/)**