**Git commands :**

**To checkout the git project in gitbash**

git clone https://github.com/muthyala-r/Typescript.git

goto checkout folder and add your files from local to chek out folder

**git add .**

git status check code is commited or not, it will show the modified files

**git status**

**git config --global user.email "88rajumuthyam@gmail.com"**

**git config --global user.name "muthyala-r" pwd:Nbr@1190**

to commit the files

**git commit -m "initial commit"**

to pusth master folder in git

**git push origin master**

git pull to update the checkout folder from git hub

**git pull**

**TypeScript commands :**

**tsc** -> typescript compiler

**code .** -> to open the project in visual studio

to install the typescript

**npm install –g typescript**

compiling process in gitbash or in visual studio

**tsc demo.ts**

**node demo.js**

read ecma script basics

**Angular 7**

To setup the angular below list of things needed

First install the node ->npm -> typescript->angular

**npm install –g typescript**

**npm install –g @angular/cli (after this check with ng command like - ng version)**

**npm install –g @angular/cli/latest**

Bootstrap is not bydefault added with the Angular Below is the command to install the bootstrap.

**npm install --save bootstrap@3**

After this goto **node-modules->bootstrap->dist->css and copy the inside the angular.json**

"styles": [

"src/styles.css",

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

],

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

To create the frist app or project in angular

**ng new first-app**

To open in the browser

**ng serve –o (or) ng serve –open**

to uninstall the node js and again install if any problm (to clear the cache from the system below are the commands)

**npm cache clear –force**

**npm install –no --shrinkwrap --update-binary**

**npm cache verify** -- if npm>5 or angular 5 above

To create the new component

**ng g c user (or) ng generate component user**

to skip the spec file

**ng g c - -spec false**

to uninstall the angular/cli if you have any issues

**npm link or npm uninstall @angular/cli**

In order to upgrade angular cli

**npm uninstall –g angular-cli**

**npm cache verify** -- if npm>5 or angular 5 above

**npm install**

**rm –rf node\_modules**

**npm uninstall --save-dev angular-cli**

**npm install --save-dev @angular/cli@latest**

**npm install**

rxjs(reactive extensible java script) is third paryt scripting environment as like java io package in java to use the different streams(url :reactive.io.rxjs)

byte streaming(8bit),character streaming(16bit), if any time rxjs is corrupted below is the command to install again into your application

**npm install –save rxjs**

to test project

**ng test**

integration testing we can do with protactor.

**ng e2e**

to build the project

**ng build**

after build it will create the dist folder.

**Firebase :**

[**https://ng-http-module-18738.firebaseio.com/data.json**](https://ng-http-module-18738.firebaseio.com/data.json)

[**https://ng-http-module-18738.firebaseio.com/**](https://ng-http-module-18738.firebaseio.com/)

for authentication -- authentication-final

**npm install –save firebase**

**ng g p custompipe**

g- guards

**ng g g name**

To Test the angular project

**ng test**

To add the code coverage in your angular application:

**npm install --code-coverage**

to open code coverage

**ng test –code-coverage**

**in git bash please execute the below commands in shopping cart**

**firebase –-version**

**npm install –save firebase**

**npm install --save @angular/fire**

**npm install -g firebase-tools**

**firebase login --interactive**

**firebase init**

to bulid the project

**ng build --prod**

**firebase deploy**

Integration Testing

**ng g p shared/reverse**

To test the end to end testing

**ng e2e**

**npm install --save @ng-bootstrap/ng-bootstrap**

import { NgbModule } from '@ng-bootstrap/ng-bootstrap';

install the mysql communities

choose custom option ->

**select the MYSql server + My sql workbench**

**then configure with credential raju/admin**

**create database shopping:**

**use shopping**

**create table category(id int primary key auto\_increment,name varchar(30));**

**create table product (id int primary key auto\_increment,title varchar(30),price double,category varchar(30),imageurl varchar(200))**

**insert into category(name) vaules(‘Mobiles’);**

**insert into category(name) vaules(‘Destop’);**