

Assignment-2

Q=1. Create an Angular application to perform CRUD operations for your desired requirement.

```
Cmder
Generating cli link initial settings in "C:\Users\VAGNES-1\AppData\Local\Temp\Rar$EXa13096.17308\config\cli_link_settings"
1 file(s) copied.
Additional *.lua files in "C:\Users\VAGNES-1\AppData\Local\Temp\Rar$EXa13096.17308\config" are loaded on startup.
Creating initial user aliases store in "C:\Users\VAGNES-1\AppData\Local\Temp\Rar$EXa13096.17308\config\user_aliases.cmd"...
1 file(s) copied.
Running Git for Windows one time Post Install....
"running post-install"
'C:\Windows\system32\drivers\etc\hosts' -> '/etc/hosts'
'C:\Windows\system32\drivers\etc\protocol' -> '/etc/protocols'
'C:\Windows\system32\drivers\etc\services' -> '/etc/services'
'C:\Windows\system32\drivers\etc\networks' -> '/etc/networks'
The batch file cannot be found.
Creating user startup files: "C:\Users\VAGNES-1\AppData\Local\Temp\Rar$EXa13096.17308\config\user_profile.cmd"
1 file(s) copied.

C:\Users\VAGNES-1\AppData\Local\Temp\Rar$EXa13096.17308
A node -v
v14.17.6

C:\Users\VAGNES-1\AppData\Local\Temp\Rar$EXa13096.17308
A npm -v
6.14.15

C:\Users\VAGNES-1\AppData\Local\Temp\Rar$EXa13096.17308
A ng v

Angular CLI
Angular CLI: 12.2.7
Node: 14.17.6
Package Manager: npm 6.14.15
OS: win32 x64

Angular:
...
Package      Version
-----
@angular-devkit/architect 0.1202.7
@angular-devkit/core      12.2.7
@angular-devkit/schematics 12.2.7

node.exe
```

```
Cmder
Angular:
...
Package      Version
-----
@angular-devkit/architect 0.1202.7
@angular-devkit/core      12.2.7
@angular-devkit/schematics 12.2.7
@schematics/angular      12.2.7

C:\Users\VAGNES-1\AppData\Local\Temp\Rar$EXa13096.17308
A ng new crud
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE crud/angular.json (303 bytes)
CREATE crud/package.json (1067 bytes)
CREATE crud/README.md (1051 bytes)
CREATE crud/tsconfig.json (783 bytes)
CREATE crud/.editorconfig (274 bytes)
CREATE crud/.gitignore (604 bytes)
CREATE crud/.browserslistrc (703 bytes)
CREATE crud/karma.conf.js (1422 bytes)
CREATE crud/tsconfig.app.json (287 bytes)
CREATE crud/tsconfig.spec.json (333 bytes)
CREATE crud/src/favicon.ico (948 bytes)
CREATE crud/src/index.html (291 bytes)
CREATE crud/src/main.ts (372 bytes)
CREATE crud/src/polyfills.ts (2020 bytes)
CREATE crud/src/styles.css (60 bytes)
CREATE crud/src/test.ts (788 bytes)
CREATE crud/src/assets/.gitkeep (0 bytes)
CREATE crud/src/environments/environment.prod.ts (51 bytes)
CREATE crud/src/environments/environment.ts (658 bytes)
CREATE crud/src/app/app-routing.module.ts (245 bytes)
CREATE crud/src/app/app.module.ts (393 bytes)
CREATE crud/src/app/app.component.html (24617 bytes)
CREATE crud/src/app/app.component.spec.ts (1070 bytes)
CREATE crud/src/app/app.component.ts (209 bytes)
CREATE crud/src/app/app.component.css (0 bytes)
? Packages installed successfully.
warning: LF will be replaced by CRLF in .browserslistrc.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in .editorconfig.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in .gitignore.
The file will have its original line endings in your working directory

node.exe
```

42_YAGNESHKUMAR_PATHAK ASSIGNMENT-2

```
Cmder

The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in package.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/app/app-routing.module.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/app/app.component.html.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/app/app.component.spec.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/app/app.component.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/environments/environment.prod.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/environments/environment.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/index.html.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/main.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/polyfills.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/styles.css.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in src/test.ts.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in tsconfig.app.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in tsconfig.json.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in tsconfig.spec.json.
The file will have its original line endings in your working directory
Author Identity unknown

*** Please tell me who you are.

Run

git config --global user.email "you@example.com"
git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'YAGNESH PATHAK@DESKTOP-BBKQ5PH.(none)')
```

```
Cmder

C:\Users\YAGNESH-1\AppData\Local\Temp\Rar$Xa13096.17308\crud\crud (master)
λ cd crud
The system cannot find the path specified.

C:\Users\YAGNESH-1\AppData\Local\Temp\Rar$Xa13096.17308\crud\crud (master)
λ npm install

> core-js@3.6.5 postinstall C:\Users\YAGNESH-1\AppData\Local\Temp\Rar$Xa13096.17308\crud\crud\node_modules\core-js
> node -e "try(require('..').postinstall)}catch(e){}"

Thank you for using core-js ( https://github.com/zloirock/core-js ) for polyfilling JavaScript standard library!

The project needs your help! Please consider supporting of core-js on Open Collective or Patreon:
> https://opencollective.com/core-js
> https://www.patreon.com/zloirock

Also, the author of core-js ( https://github.com/zloirock ) is looking for a good job :-)
```

```
> @angular/cli@11.0.7 postinstall C:\Users\YAGNESH-1\AppData\Local\Temp\Rar$Xa13096.17308\crud\crud\node_modules\@angular\cli
> node ./bin/postinstall/script.js

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.3 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.3: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\chokidar\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

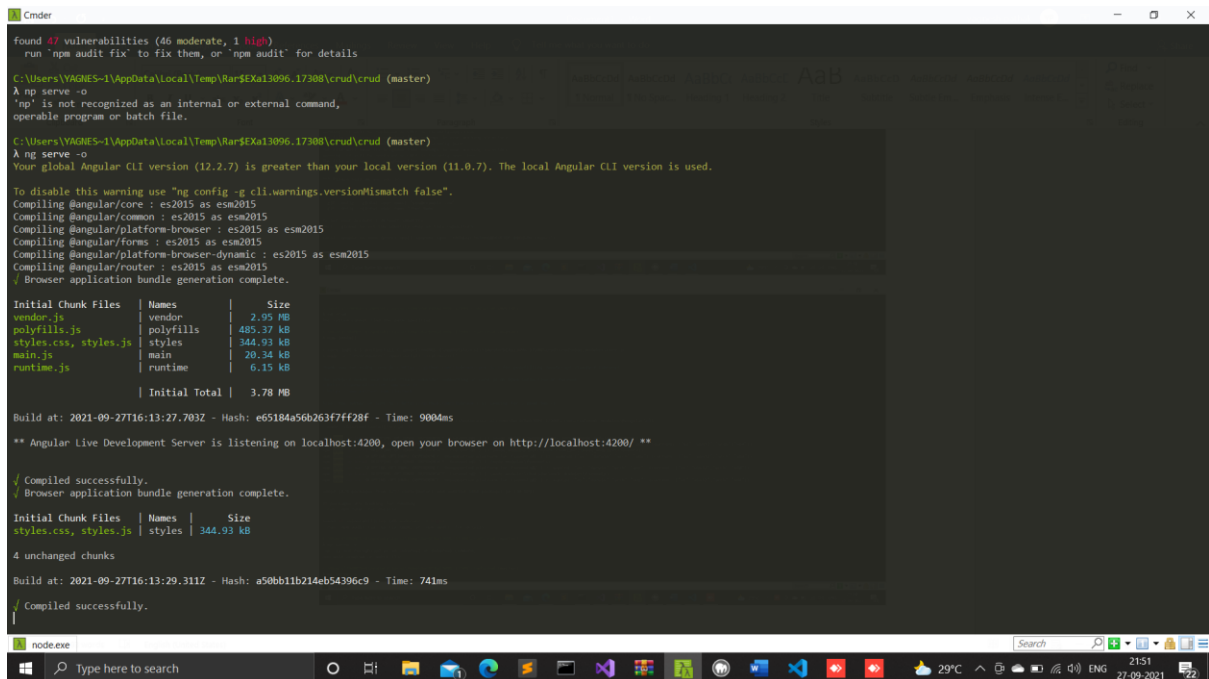
added 1478 packages from 1237 contributors and audited 1484 packages in 130.891s

95 packages are looking for funding
  run `npm fund` for details

found 47 vulnerabilities (46 moderate, 1 high)
  run `npm audit fix` to fix them, or `npm audit` for details

C:\Users\YAGNESH-1\AppData\Local\Temp\Rar$Xa13096.17308\crud\crud (master)
λ np server -o
'np' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\YAGNESH-1\AppData\Local\Temp\Rar$Xa13096.17308\crud\crud (master)
λ ng serve -o
```



```
Roll No :
<input type="number" [formControl]="rollNo">
<br/>
Name :
<input type="text" [formControl]="name">
<br/>
Class :
<input type="number" [formControl]="class">
<br/>
Div :
<input type="text" [formControl]="div">
<br/>
<button (click)="submit()">Save</button>
<br/>
<button (click)="update()">Update</button>
<br/>
<table border="1">
  <tr>
    <th>Roll No</th>
    <th>Name</th>
    <th>Class</th>
    <th>Div</th>
    <th>Actions</th>
  </tr>
  <tr *ngFor="let stud of students">
    <td>
      {{stud.rollNo}}
    </td>
    <td>
      {{stud.name}}
    </td>
  </tr>
</table>
```

```

    </td>
    <td>
      {{stud.class}}
    </td>
    <td>
      {{stud.div}}
    </td>
    <td>
      <button (click)="editStudent(stud.rollNo, stud.name, stud.class, stud.div)">Select</button>
      <button (click)="deleteStudent(stud.rollNo)">Delete</button>
    </td>
  </tr>
</table>

```

Test.ts

```

// This file is required by karma.conf.js and loads recursively all the .spec
and framework files

import 'zone.js/dist/zone-testing';
import { getTestBed } from '@angular/core/testing';
import {
  BrowserDynamicTestingModule,
  platformBrowserDynamicTesting
} from '@angular/platform-browser-dynamic/testing';

declare const require: {
  context(path: string, deep?: boolean, filter?: RegExp): {
    keys(): string[];
    <T>(id: string): T;
  };
};

// First, initialize the Angular testing environment.
getTestBed().initTestEnvironment(
  BrowserDynamicTestingModule,
  platformBrowserDynamicTesting()
);
// Then we find all the tests.
const context = require.context('./', true, /\.spec\.ts$/);
// And load the modules.
context.keys().map(context);

```

app.component.ts

```

import { Component } from '@angular/core';
import { FormControl } from '@angular/forms';
import { Student } from '../model/student.model';

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent {
  title = 'crud';
  rollNo = new FormControl();
  name = new FormControl();
  class = new FormControl();
  div = new FormControl();
  students: Student[] = [];

  submit(){
    let student: Student = {
      rollNo: this.rollNo.value,
      name: this.name.value,
      class: this.class.value,
      div: this.div.value
    }
    this.students.push(student);
    this.rollNo.reset();
    this.name.reset();
    this.class.reset();
    this.div.reset();
  }

  editStudent(rollNo: number, name: string , class1: number, div: string )
  {
    this.rollNo.patchValue(rollNo);
    this.name.patchValue(name);
    this.class.patchValue(class1);
    this.div.patchValue(div);
  }

  update(){
    this.students.find(x=>x.rollNo == this.rollNo.value).name = this.name.value;
    this.students.find(x=>x.rollNo == this.rollNo.value).class = this.class.value;
    this.students.find(x=>x.rollNo == this.rollNo.value).div = this.div.value;
  }

  deleteStudent(rollNo: number){
    var i= 0;
    for(let stud of this.students)
    {

```

```

        if(stud.rollNo == rollNo)
        {
            break;
        }
        i++;
    }
    this.students.splice(i,1);
}
}

```

App.component.spec.ts

```

import { TestBed } from '@angular/core/testing';
import { RouterTestingModule } from '@angular/router/testing';
import { AppComponent } from './app.component';

describe('AppComponent', () => {
  beforeEach(async () => {
    await TestBed.configureTestingModule({
      imports: [
        RouterTestingModule
      ],
      declarations: [
        AppComponent
      ],
    }).compileComponents();
  });

  it('should create the app', () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app).toBeTruthy();
  });

  it(`should have as title 'crud'`, () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app.title).toEqual('crud');
  });

  it('should render title', () => {
    const fixture = TestBed.createComponent(AppComponent);
    fixture.detectChanges();
    const compiled = fixture.nativeElement;
  });

```

```

    expect(compiled.querySelector('.content span').textContent).toContain('cr
d app is running!');
  });
});

```

App.module.ts

```

import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { ReactiveFormsModule } from '@angular/forms';
import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';

@NgModule({
  declarations: [
    AppComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule,
    ReactiveFormsModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }

```

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Output:

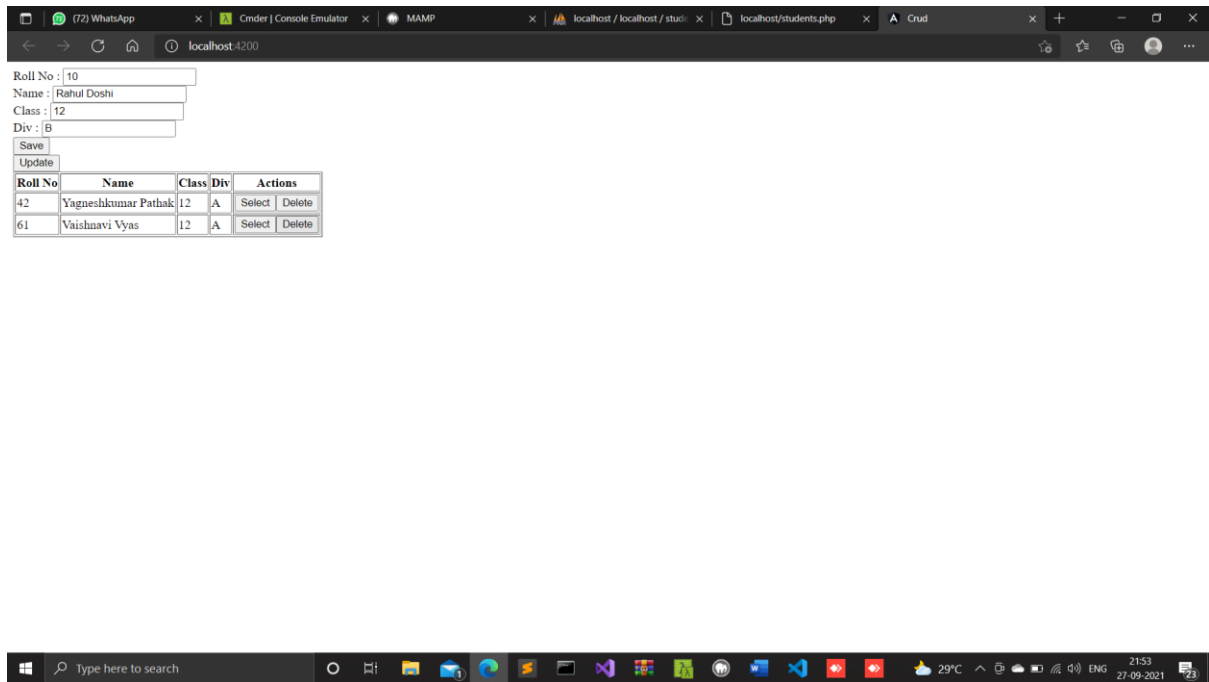
Roll No :
Name :
Class :
Div :

Roll No	Name	Class	Div	Actions
42	Yagneshkumar Pathak	12	A	<input type="button" value="Select"/> <input type="button" value="Delete"/>
10	Rahul Doshi	12	A	<input type="button" value="Select"/> <input type="button" value="Delete"/>
61	Vaishnavi Vyas	12	A	<input type="button" value="Select"/> <input type="button" value="Delete"/>

Roll No :
Name :
Class :
Div :

Roll No	Name	Class	Div	Actions
42	Yagneshkumar Pathak	12	A	<input type="button" value="Select"/> <input type="button" value="Delete"/>
10	Rahul Doshi	12	B	<input type="button" value="Select"/> <input type="button" value="Delete"/>
61	Vaishnavi Vyas	12	A	<input type="button" value="Select"/> <input type="button" value="Delete"/>

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Index.html

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>Crud</title>
  <base href="/">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="icon" type="image/x-icon" href="favicon.ico">
</head>
<body>
  <app-root></app-root>
</body>
</html>
```