# Creating an API using get method

# **FRONT END**

### Step:1

Create a component with name view-student and add the below code

#### view-student.html

```
<thead>
 Id 
 First Name
 Last Name
 Address
 Age 
 Class
 Section
 </thead>
 <input [(ngModel)]="Student.id" [disabled]='$index !== expandedIndex'value=</pre>
<input [(ngModel)]="Student.firstname" [disabled]='$index !== expandedIndex' value={{Stu
lent.firstname}}>
<input [(ngModel)]="Student.lastname" [disabled]='$index !== expandedIndex' value={{Stud
ent.lastname}}>
<input [(ngModel)]="Student.address" [disabled]='$index !== expandedIndex' value={{Stude
t.address}>
<input [(ngModel)]="Student.age" [disabled]='$index !== expandedIndex' value={{Student.a
 <input [(ngModel)]="Student.class" [disabled]='$index !== expandedIndex' value={{Student
class}}>
<input [(ngModel)]="Student.section" [disabled]='$index !== expandedIndex' value={{Stude}
t.section}}>
```

#### Step:2

Import the service file to view-student.ts file as below and write a promise in getdetails()

view-student.ts

```
import { Component, OnInit } from '@angular/core';
import { ApiService } from '../api.service';
import { Student } from '../create-student/student';
@Component({
  selector: 'app-view-students',
  templateUrl: './view-students.component.html',
  styleUrls: ['./view-students.component.css'
        class ViewStudentsComponent implements OnInit {
  stud
  val:boolean = true ;
  expandedIndex: any
  constructor(private service: ApiService) { }
  ngOnInit() {
    console.log('hello');
   this.getAllStudents()
  getAllStudents () {
     console.log('hi');
     this.service.getstudents().subscribe((res: any) => {
       this.stud = res
       console.log(res);
     }, err => {
       console.log(err);
```

## Step:3

Add an read API by using get method as below to the existing service file api.service.ts

```
getstudents(){
   return this._http.get(this.rootUrl+"read/read", {
      observe: 'body'
});
}
```

**Step:4** update the app.module.ts by import the view-student component as below

```
import BrowserModule from '@angular/platform-browser' import NgModule from '@angular/core'
```

```
import NgbModule from '@ng-bootstrap/ng-bootstrap'
import AppRoutingModule from './app-routing.module'
       AppComponent from './app.component'
import
import CreateStudentComponent from './create-student/create-student.component'
import FormsModule ReactiveFormsModule from '@angular/forms'
import HttpModule from '@angular/http'
import HttpClientModule from '@angular/common/http'
import ViewStudentsComponent from './view-students/view-students.component'
 NgModule
 declarations:
  AppComponent
  CreateStudentComponent
  ViewStudentsComponent
 imports:
  BrowserModule
  NgbModule
  HttpModule
  HttpClientModule
  FormsModule
  ReactiveFormsModule
  AppRoutingModule
 providers:
 bootstrap: AppComponent
export class AppModule
```

**Step:5** add button with routerlink for profile in app.component.html with below code to display the buttons with router link

Step:6 add routing in app-routing.module.ts as below

```
import { NgModule } from '@angular/core';
import { Routes, RouterModule } from '@angular/router';
import { CreateStudentComponent } from './create-student/create-student.component';
```

#### The UI part of the above code is

1. This is the screen we get when we click on profile button it will displays all the student details



# **BACK END**

#### **Step 1:** update/replace the below code in index.js file

```
var express = require('express');
var path = require('path');
var createRouter = require('./routes/create');
var readRouter = require('./routes/read');
var editRouter = require('./routes/edit');
var bodyParser = require('body-parser')
var app = express();
app.use(bodyParser.urlencoded({ extended: false }))
// parse application/json
app.use(bodyParser.json())
// add mongoose
var mongoose = require('mongoose');
mongoose.connect("mongodb://127.0.0.1:27017/training", {useNewUrlParser: true, us
eUnifiedTopology: true}, (error, client) => {
 if(error){
      console.log("Error occured not able to connect");
 });
//add cors
var cors = require('cors');
app.use(cors({
 origin: http://localhost:4200'
}));
// view engine setup
app.set('views', path.join(__dirname, 'views'));
app.set('view engine', 'ejs');
app.use('/create', createRouter);
app.use('/read', readRouter);
// catch 404 and forward to error handler
app.use(function(reg, res, next) {
```

```
next(createError(404));
});

// error handler
app.use(function(err, req, res, next) {
    // set locals, only providing error in development
    res.locals.message = err.message;
    res.locals.error = req.app.get('env') === 'development' ? err : {};

    // render the error page
    res.status(err.status || 500);
    res.render('error');
});

//server listening
app.listen(3005, ()=> console.log("listening on port 3005"));
module.exports = app;
```

# **Step 2:** create a file in routes folder with name read.js and place the below code in that file

**Step 3:** start the server by using **node index.js command in terminal**