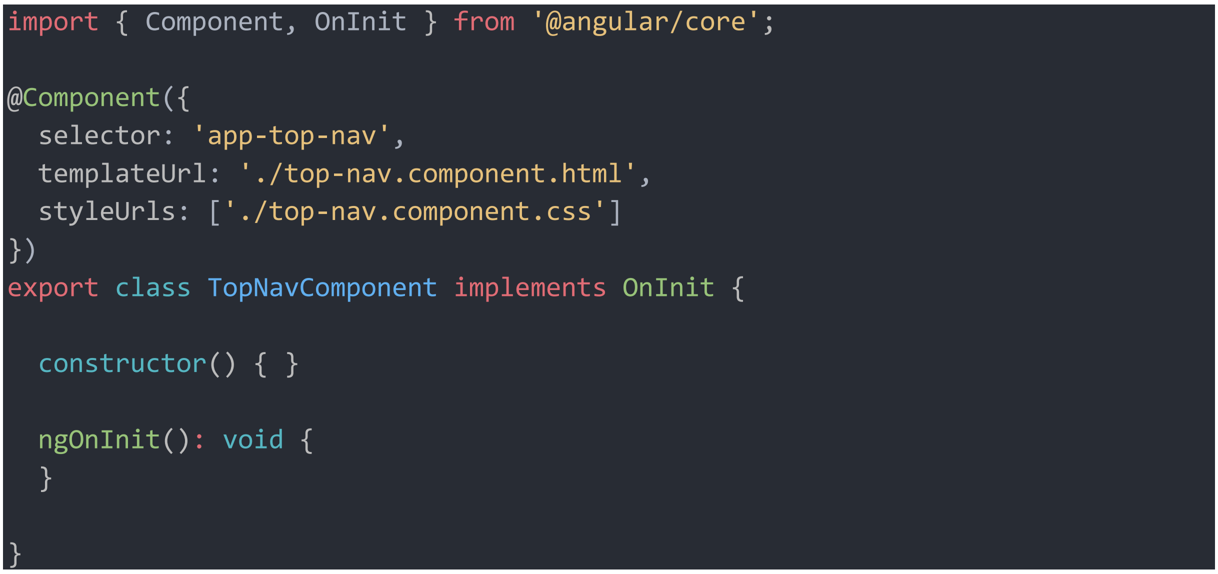
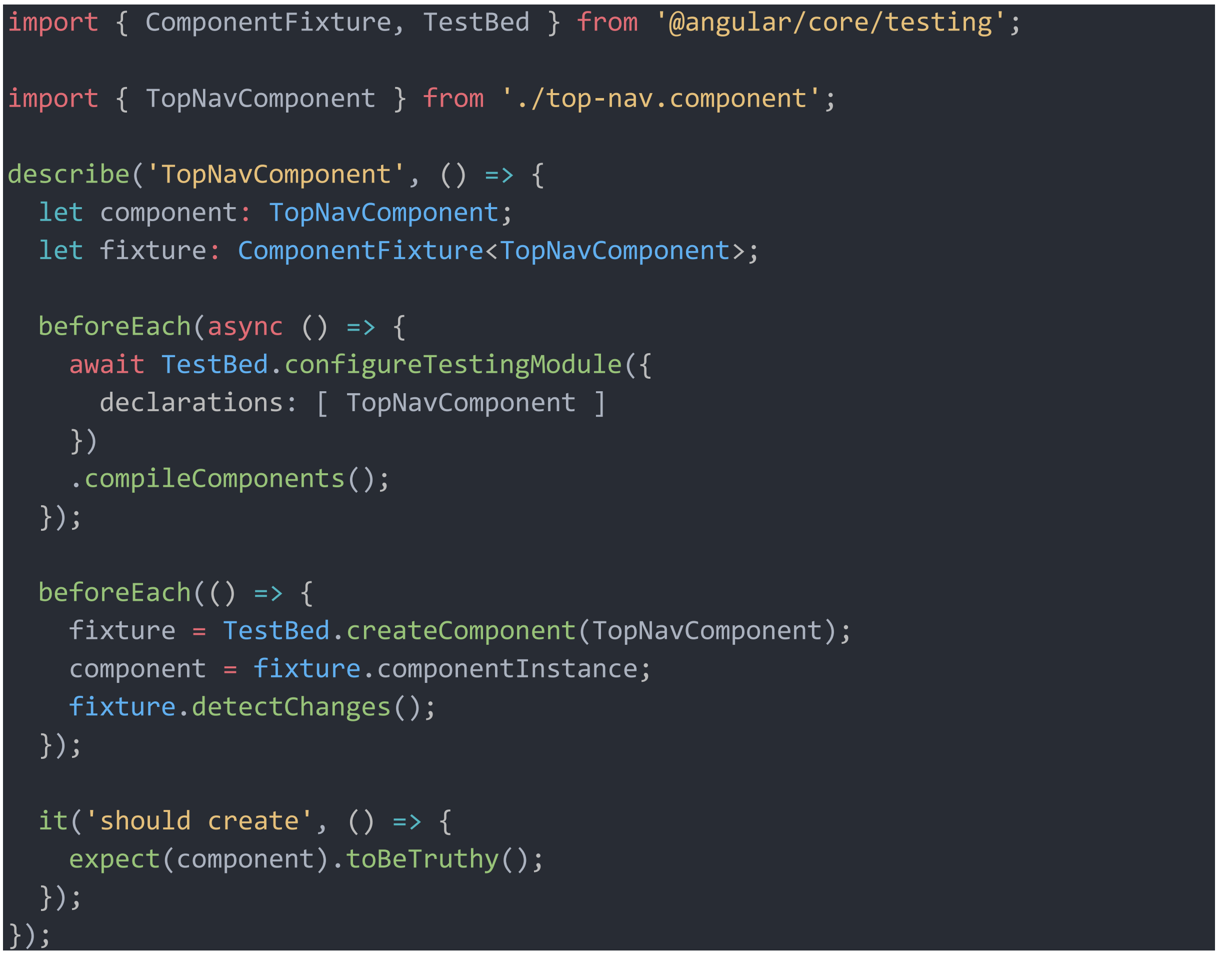
Lab :- 9

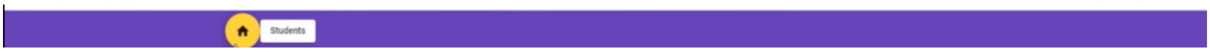
Navbar :-



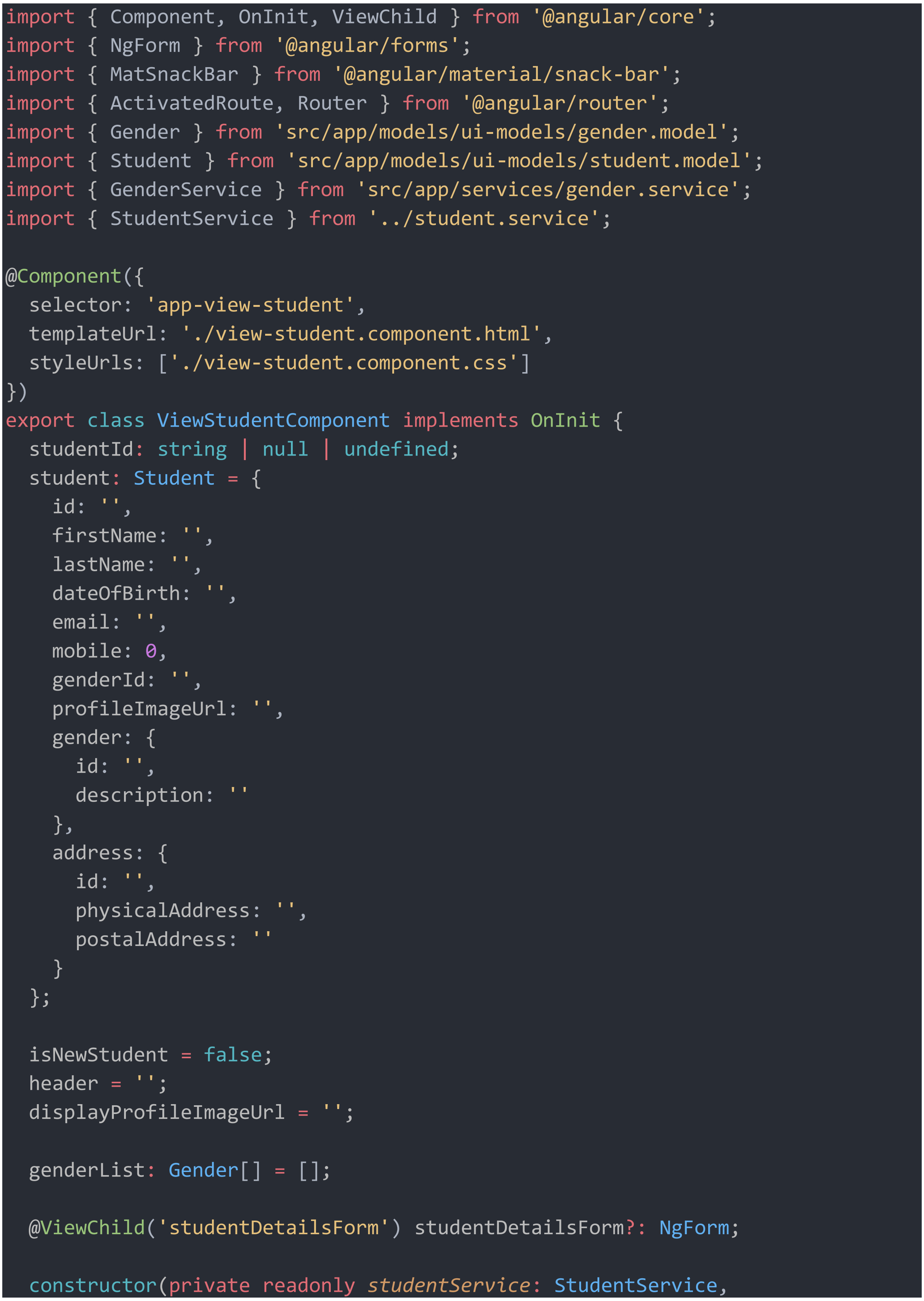
```
import { Component, OnInit } from '@angular/core';

@Component({
  selector: 'app-top-nav',
  templateUrl: './top-nav.component.html',
  styleUrls: ['./top-nav.component.css']
})
export class TopNavComponent implements OnInit {

  constructor() { }

  ngOnInit(): void {
  }

}
```



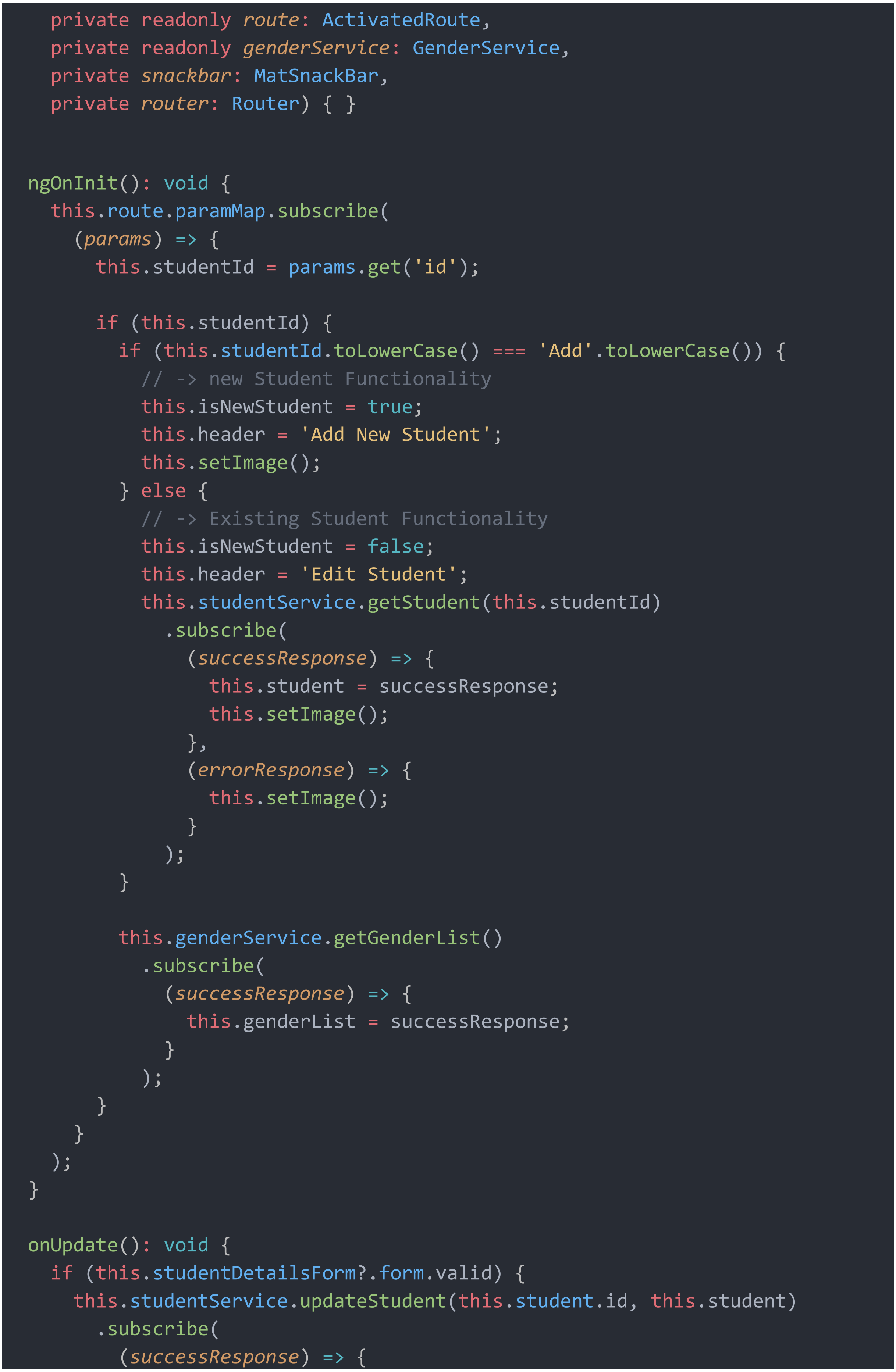
```
import { ComponentFixture, TestBed } from '@angular/core/testing';

import { TopNavComponent } from './top-nav.component';

describe('TopNavComponent', () => {
  let component: TopNavComponent;
  let fixture: ComponentFixture<TopNavComponent>;

  beforeEach(async () => {
    await TestBed.configureTestingModule({
      declarations: [ TopNavComponent ]
    })
    .compileComponents();
  });

  beforeEach(() => {
    fixture = TestBed.createComponent(TopNavComponent);
    component = fixture.componentInstance;
    fixture.detectChanges();
  });

  it('should create', () => {
    expect(component).toBeTruthy();
  });
});
```



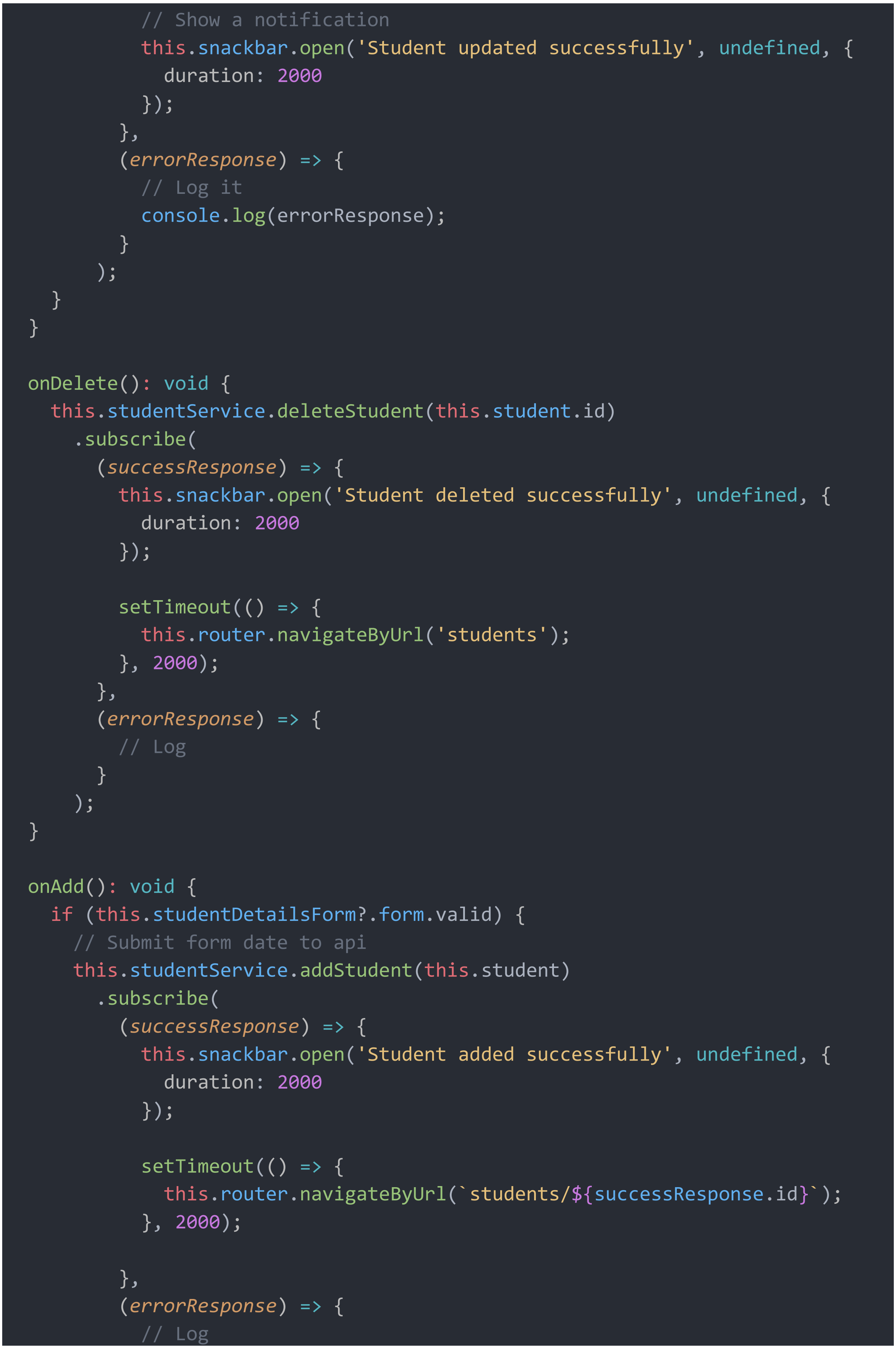
View Student :-



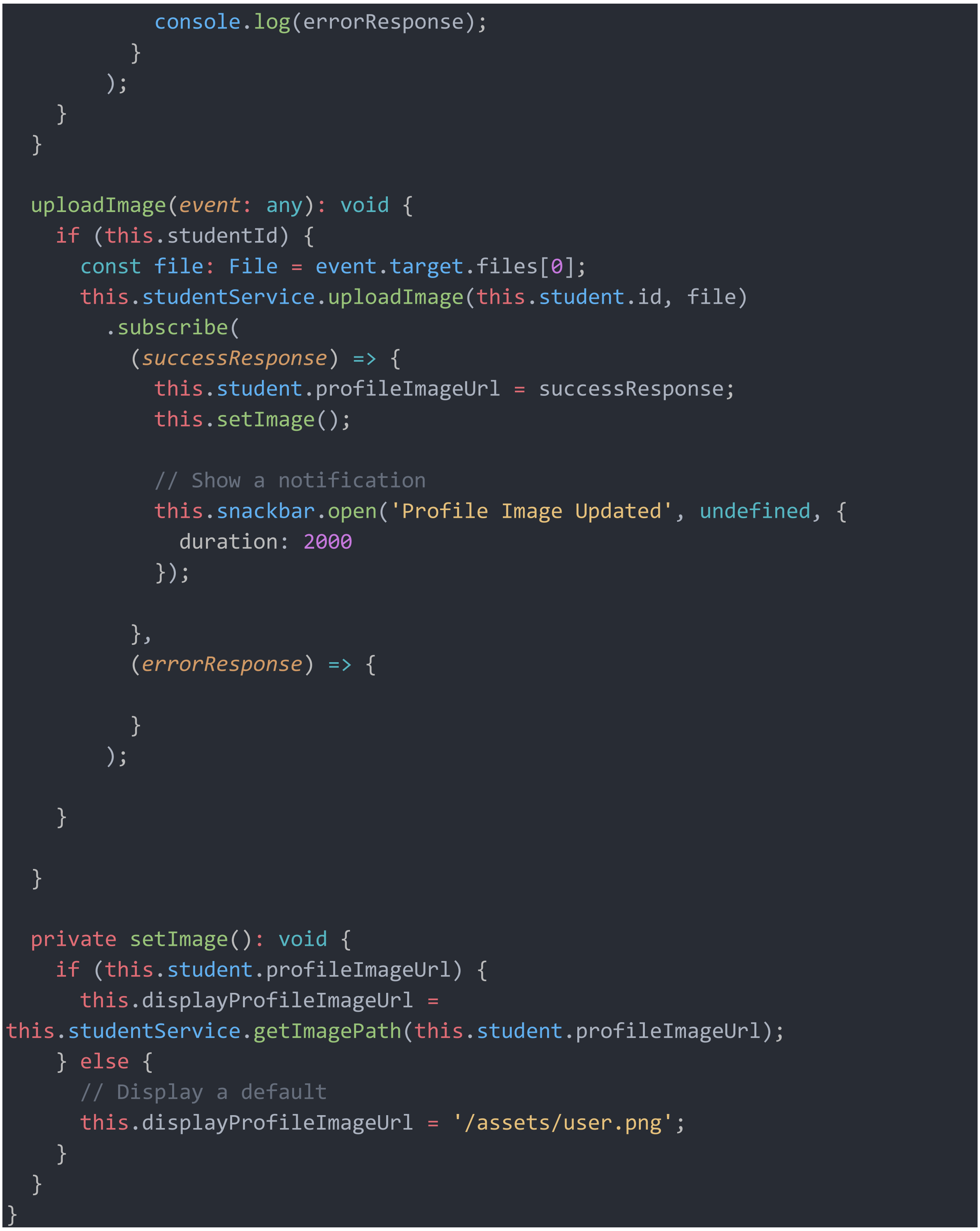
```
import { Component, OnInit, ViewChild } from '@angular/core';
import { NgForm } from '@angular/forms';
import { MatSnackBar } from '@angular/material/snack-bar';
import { ActivatedRoute, Router } from '@angular/router';
import { Gender } from 'src/app/models/ui-models/gender.model';
import { Student } from 'src/app/models/ui-models/student.model';
import { GenderService } from 'src/app/services/gender.service';
import { StudentService } from '../student.service';

@Component({
  selector: 'app-view-student',
  templateUrl: './view-student.component.html',
  styleUrls: ['./view-student.component.css']
})
export class ViewStudentComponent implements OnInit {
  studentId: string | null | undefined;
  student: Student = {
    id: '',
    firstName: '',
    lastName: '',
    dateOfBirth: '',
    email: '',
    mobile: 0,
    genderId: '',
    profileImageUrl: '',
    gender: {
      id: '',
      description: ''
    },
    address: {
      id: '',
      physicalAddress: '',
      postalAddress: ''
    }
  };

  isNewStudent = false;
  header = '';
  displayProfileImageUrl = '';

  genderList: Gender[] = [];

  @ViewChild('studentDetailsForm') studentDetailsForm?: NgForm;

  constructor(private readonly studentService: StudentService,
```



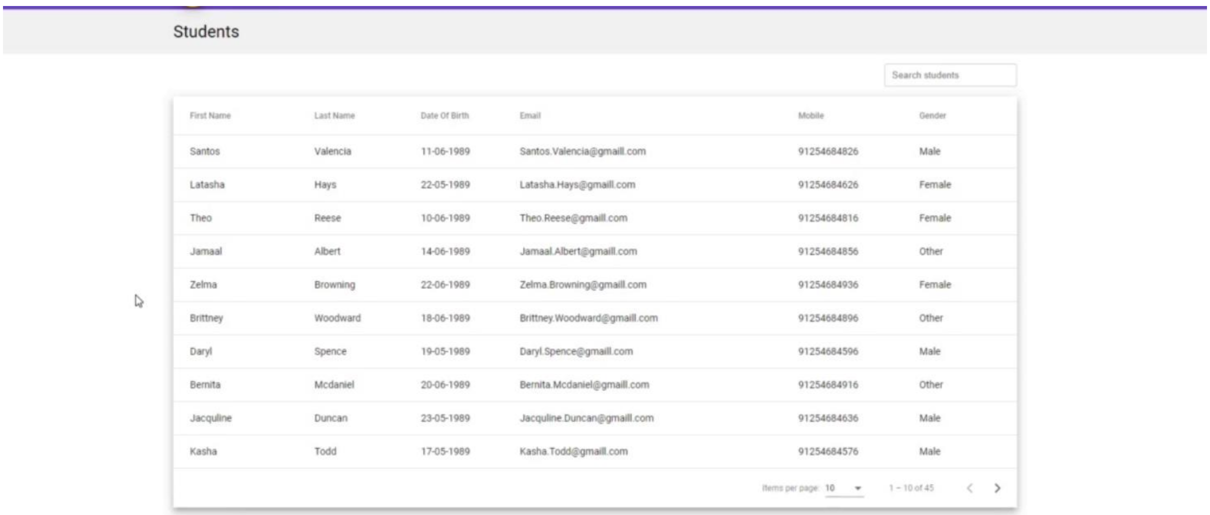
```
  private readonly route: ActivatedRoute,
  private readonly genderService: GenderService,
  private snackbar: MatSnackBar,
  private router: Router) { }


ngOnInit(): void {
  this.route.paramMap.subscribe(
    (params) => {
      this.studentId = params.get('id');

      if (this.studentId) {
        if (this.studentId.toLowerCase() === 'Add'.toLowerCase()) {
          // -> new Student Functionality
          this.isNewStudent = true;
          this.header = 'Add New Student';
          this.setImage();
        } else {
          // -> Existing Student Functionality
          this.isNewStudent = false;
          this.header = 'Edit Student';
          this.studentService.getStudent(this.studentId)
            .subscribe(
              (successResponse) => {
                this.student = successResponse;
                this.setImage();
              },
              (errorResponse) => {
                this.setImage();
              }
            );
        }

        this.genderService.getGenderList()
          .subscribe(
            (successResponse) => {
              this.genderList = successResponse;
            }
          );
      }
    }
  );
}

onUpdate(): void {
  if (this.studentDetailsForm?.form.valid) {
    this.studentService.updateStudent(this.student.id, this.student)
      .subscribe(
        (successResponse) => {
```



```
          // Show a notification
          this.snackbar.open('Student updated successfully', undefined, {
            duration: 2000
          });
        },
        (errorResponse) => {
          // Log it
          console.log(errorResponse);
        }
      );
  }
}

onDelete(): void {
  this.studentService.deleteStudent(this.student.id)
    .subscribe(
      (successResponse) => {
        this.snackbar.open('Student deleted successfully', undefined, {
          duration: 2000
        });

        setTimeout(() => {
          this.router.navigateByUrl('students');
        }, 2000);
      },
      (errorResponse) => {
        // Log
      }
    );
}

onAdd(): void {
  if (this.studentDetailsForm?.form.valid) {
    // Submit form date to api
    this.studentService.addStudent(this.student)
      .subscribe(
        (successResponse) => {
          this.snackbar.open('Student added successfully', undefined, {
            duration: 2000
          });

          setTimeout(() => {
            this.router.navigateByUrl(`students/${successResponse.id}`);
          }, 2000);

        },
        (errorResponse) => {
          // Log
```



```
            console.log(errorResponse);
          }
        );
    }
  }

  uploadImage(event: any): void {
    if (this.studentId) {
      const file: File = event.target.files[0];
      this.studentService.uploadImage(this.student.id, file)
        .subscribe(
          (successResponse) => {
            this.student.profileImageUrl = successResponse;
            this.setImage();

            // Show a notification
            this.snackbar.open('Profile Image Updated', undefined, {
              duration: 2000
            });

          },
          (errorResponse) => {

          }
        );

    }

  }

  private setImage(): void {
    if (this.student.profileImageUrl) {
      this.displayProfileImageUrl =
this.studentService.getImagePath(this.student.profileImageUrl);
    } else {
      // Display a default
      this.displayProfileImageUrl = '/assets/user.png';
    }
  }
}
```

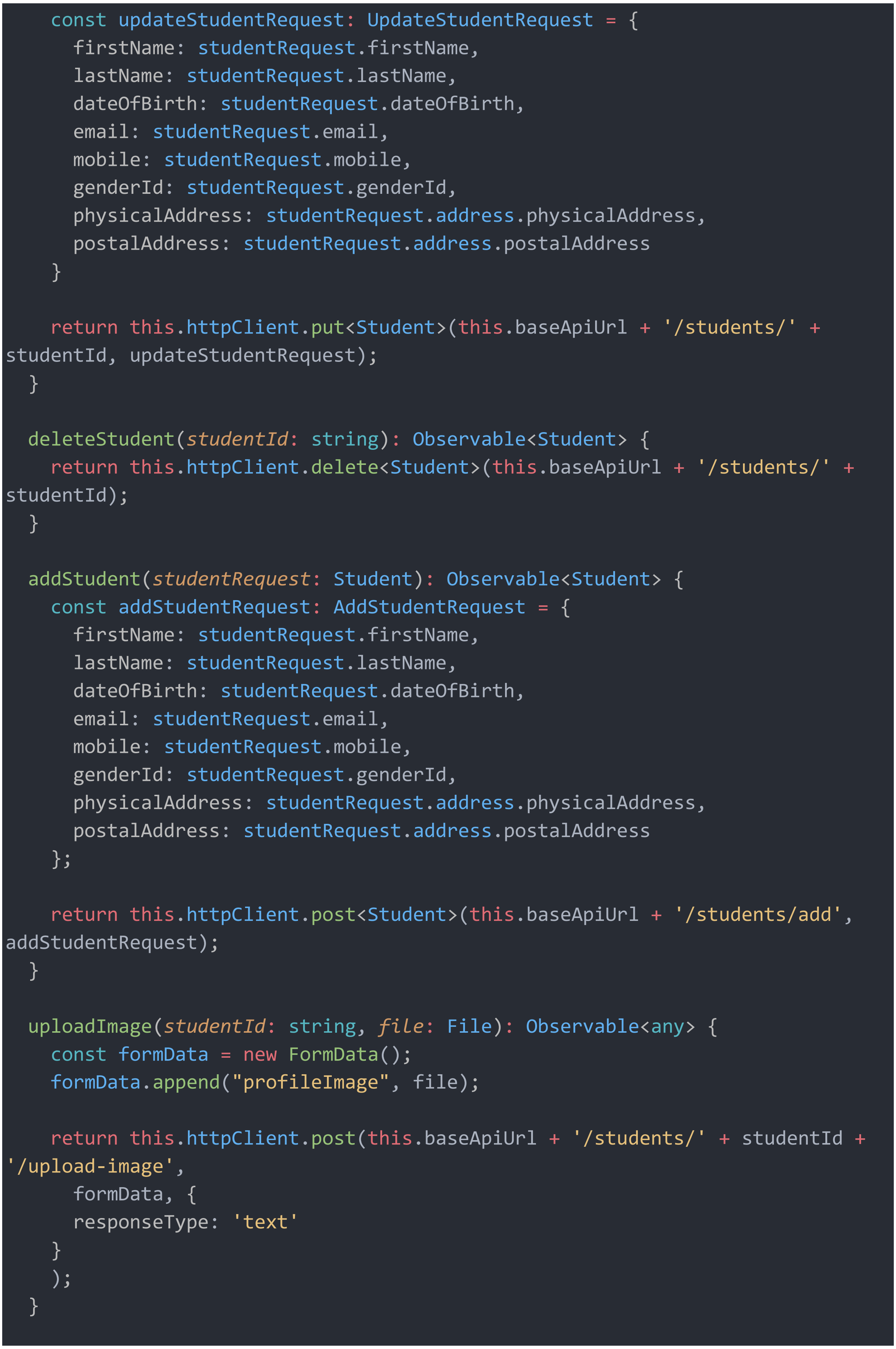


Students

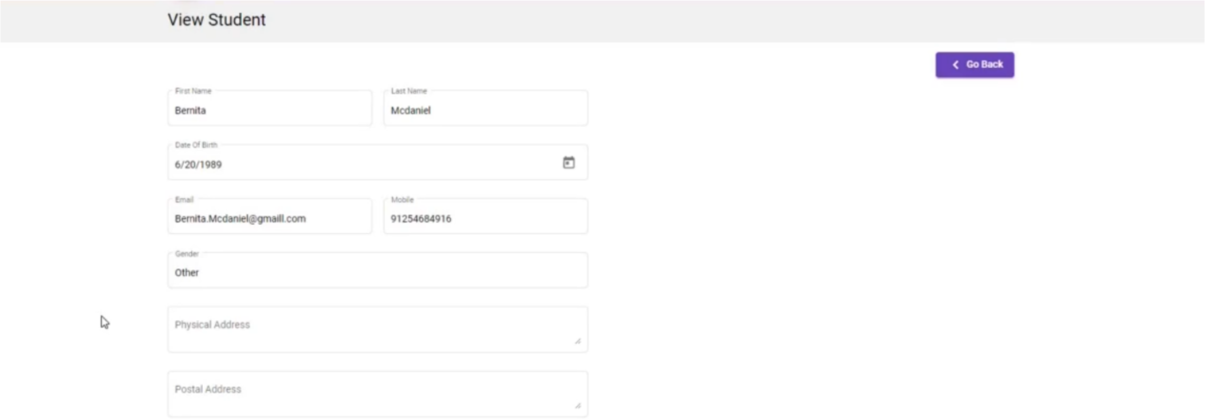
First Name	Last Name	Date Of Birth	Email	Mobile	Gender
Santos	Valencia	11-06-1989	Santos.Valencia@gmaill.com	91254684826	Male
Latasha	Hays	22-05-1989	Latasha.Hays@gmaill.com	91254684626	Female
Theo	Reese	10-06-1989	Theo.Reese@gmaill.com	91254684816	Female
Jamaal	Albert	14-06-1989	Jamaal.Albert@gmaill.com	91254684856	Other
Zelma	Browning	22-06-1989	Zelma.Browning@gmaill.com	91254684936	Female
Brittney	Woodward	18-06-1989	Brittney.Woodward@gmaill.com	91254684896	Other
Daryl	Spence	19-05-1989	Daryl.Spence@gmaill.com	91254684596	Male
Bernita	Mcdaniel	20-06-1989	Bernita.Mcdaniel@gmaill.com	91254684916	Other
Jacquline	Duncan	23-05-1989	Jacquline.Duncan@gmaill.com	91254684636	Male
Kasha	Todd	17-05-1989	Kasha.Todd@gmaill.com	91254684576	Male

Injected Student Services :-

```
import { HttpClient } from '@angular/common/http';
import { Injectable } from '@angular/core';
import { Observable } from 'rxjs';
import { AddStudentRequest } from '../models/api-models/add-student-request.model';
import { Student } from '../models/api-models/student.model';
import { UpdateStudentRequest } from '../models/api-models/update-student-request.model';

@Injectable({
  providedIn: 'root'
})
export class StudentService {

  private baseApiUrl = 'https://localhost:44389';

  constructor(private httpClient: HttpClient) { }

  getStudents(): Observable<Student[]> {
    return this.httpClient.get<Student[]>(this.baseApiUrl + '/students');
  }

  getStudent(studentId: string): Observable<Student> {
    return this.httpClient.get<Student>(this.baseApiUrl + '/students/' + studentId)
  }

  updateStudent(studentId: string, studentRequest: Student): Observable<Student> {
```



```
    const updateStudentRequest: UpdateStudentRequest = {
      firstName: studentRequest.firstName,
      lastName: studentRequest.lastName,
      dateOfBirth: studentRequest.dateOfBirth,
      email: studentRequest.email,
      mobile: studentRequest.mobile,
      genderId: studentRequest.genderId,
      physicalAddress: studentRequest.address.physicalAddress,
      postalAddress: studentRequest.address.postalAddress
    }

    return this.httpClient.put<Student>(this.baseApiUrl + '/students/' +
studentId, updateStudentRequest);
  }

  deleteStudent(studentId: string): Observable<Student> {
    return this.httpClient.delete<Student>(this.baseApiUrl + '/students/' +
studentId);
  }

  addStudent(studentRequest: Student): Observable<Student> {
    const addStudentRequest: AddStudentRequest = {
      firstName: studentRequest.firstName,
      lastName: studentRequest.lastName,
      dateOfBirth: studentRequest.dateOfBirth,
      email: studentRequest.email,
      mobile: studentRequest.mobile,
      genderId: studentRequest.genderId,
      physicalAddress: studentRequest.address.physicalAddress,
      postalAddress: studentRequest.address.postalAddress
    };

    return this.httpClient.post<Student>(this.baseApiUrl + '/students/add',
addStudentRequest);
  }

  uploadImage(studentId: string, file: File): Observable<any> {
    const formData = new FormData();
    formData.append("profileImage", file);

    return this.httpClient.post(this.baseApiUrl + '/students/' + studentId +
'/upload-image',
      formData, {
      responseType: 'text'
    }
    );
  }
  getImagePath(relativePath: string) {
    return `${this.baseApiUrl}/${relativePath}`;
  }
}
```



View Student

First Name: Bernita

Last Name: Mcdaniel

Date Of Birth: 6/20/1989

Email: Bernita.Mcdaniel@gmaill.com

Mobile: 91254684916

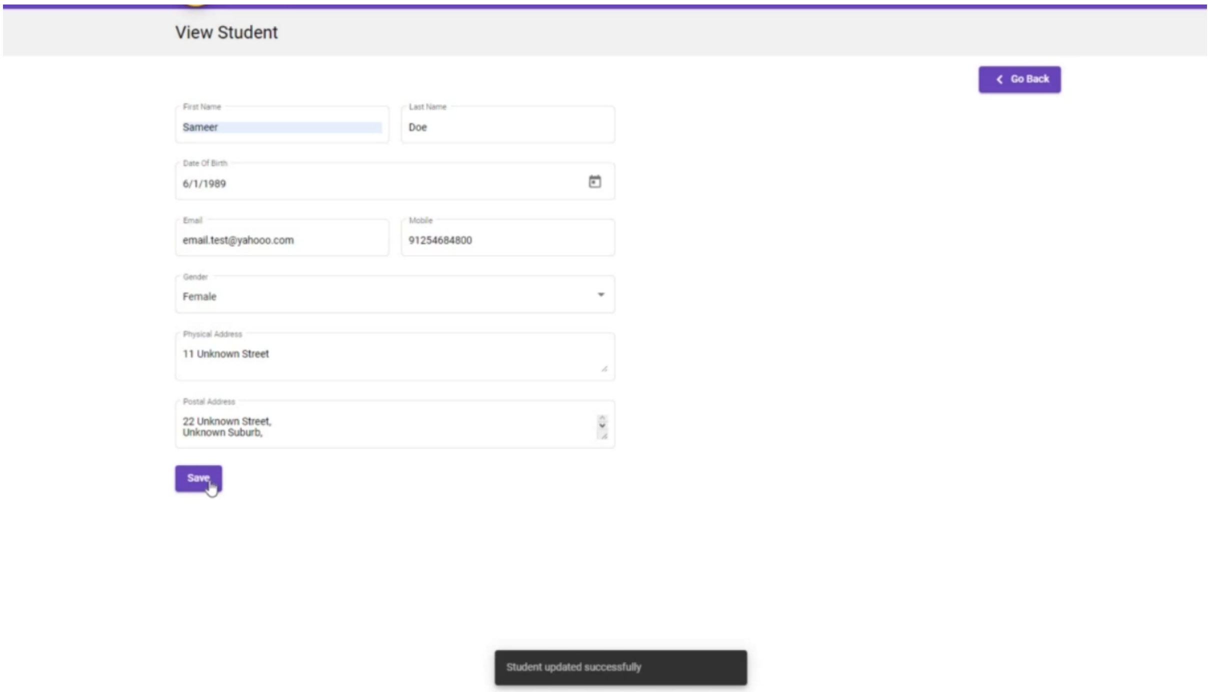
Gender: Other

Physical Address

Postal Address

Update student via API

```
export interface UpdateStudentRequest {
    firstName: string,
    lastName: string,
    dateOfBirth: string,
    email: string,
    mobile: number,
    genderId: string,
    physicalAddress: string,
    postalAddress: string
  }
```



View Student

First Name: Sameer

Last Name: Doe

Date Of Birth: 6/1/1989

Email: email.test@yahooo.com

Mobile: 91254684800

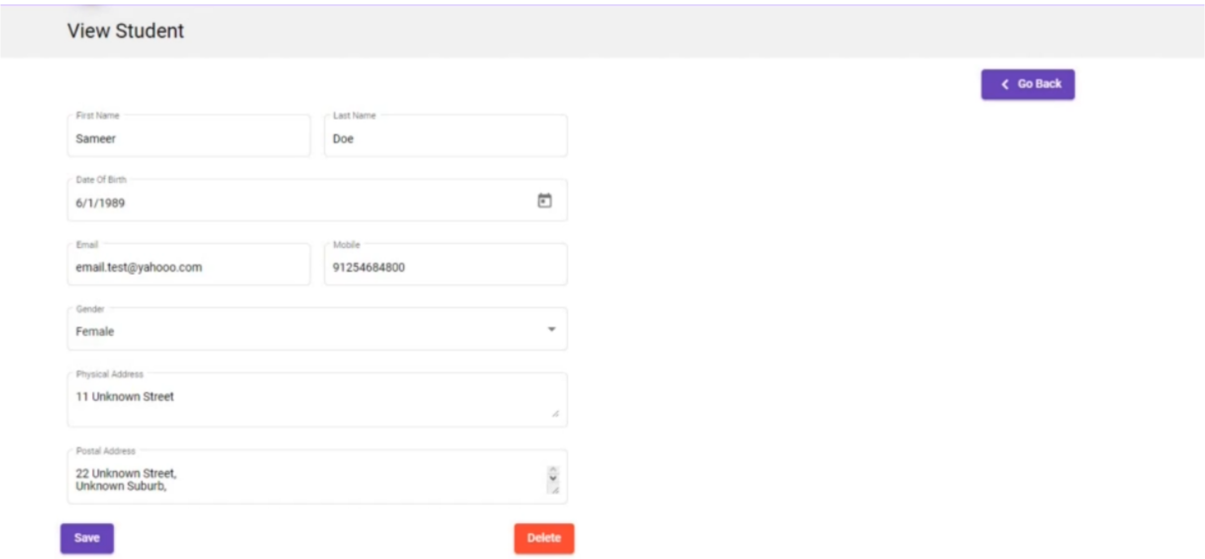
Gender: Female

Physical Address: 11 Unknown Street

Postal Address: 22 Unknown Street,
Unknown Suburb,

Student updated successfully

Delete Student :-



View Student

First Name: Sameer

Last Name: Doe

Date Of Birth: 6/1/1989

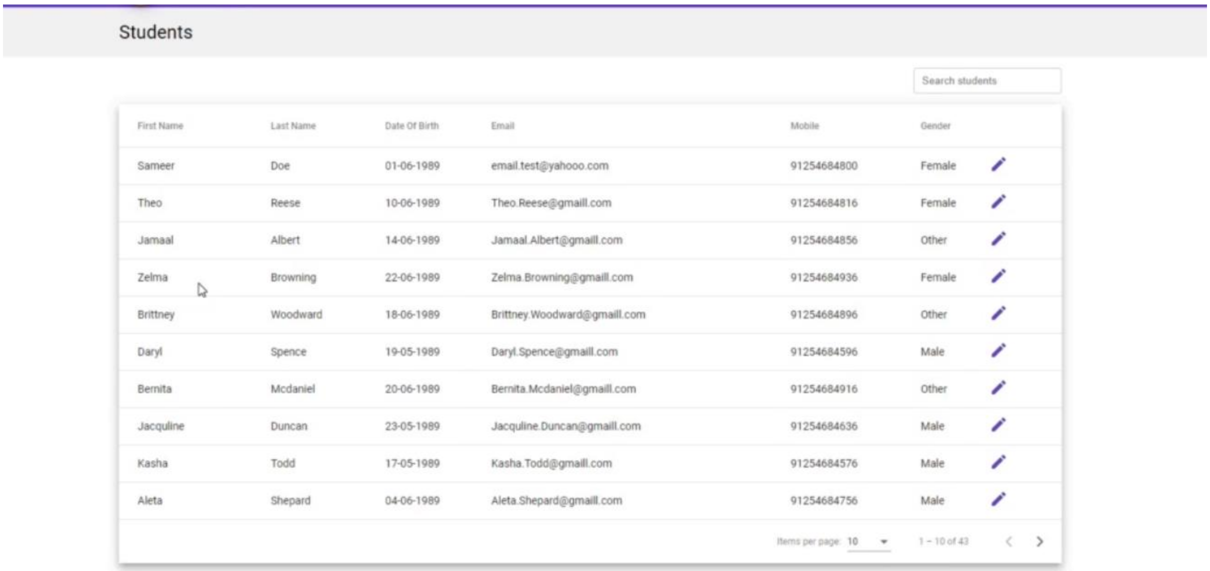
Email: email.test@yahooo.com

Mobile: 91254684800

Gender: Female

Physical Address: 11 Unknown Street

Postal Address: 22 Unknown Street,
Unknown Suburb,



Students

Search students

First Name	Last Name	Date Of Birth	Email	Mobile	Gender	
Sameer	Doe	01-06-1989	email.test@yahooo.com	91254684800	Female	✎
Theo	Reese	10-06-1989	Theo.Reese@gmaill.com	91254684816	Female	✎
Jamaal	Albert	14-06-1989	Jamaal.Albert@gmaill.com	91254684856	Other	✎
Zelma	Browning	22-06-1989	Zelma.Browning@gmaill.com	91254684936	Female	✎
Brittney	Woodward	18-06-1989	Brittney.Woodward@gmaill.com	91254684896	Other	✎
Daryl	Spence	19-05-1989	Daryl.Spence@gmaill.com	91254684596	Male	✎
Bernita	Mcdaniel	20-06-1989	Bernita.Mcdaniel@gmaill.com	91254684916	Other	✎
Jacquline	Duncan	23-05-1989	Jacquline.Duncan@gmaill.com	91254684636	Male	✎
Kasha	Todd	17-05-1989	Kasha.Todd@gmaill.com	91254684576	Male	✎
Aleta	Shepard	04-06-1989	Aleta.Shepard@gmaill.com	91254684756	Male	✎

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