

```
import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.RequestParam;

import org.springframework.web.bind.annotation.RestController;

import java.util.ArrayList;

import java.util.List;

import java.util.stream.Collectors;

@SpringBootApplication

@RestController

public class StudentAPI {

    // Sample student data

    private List<Student> students = new ArrayList<>();

    public static void main(String[] args) {

        SpringApplication.run(StudentAPI.class, args);

    }

    public StudentAPI() {

        // Add sample students to the list

        students.add(new Student(1, "John", 20));

        students.add(new Student(2, "Jane", 22));

        students.add(new Student(3, "Bob", 21));

        // Add more student records here

    }

    // API endpoint for loading student details with pagination

    @GetMapping("/students")
```

```

public List<Student> getStudents(@RequestParam(value = "page", defaultValue =
"1") int page,

@RequestParam(value = "limit", defaultValue = "10") int limit) {

    int startIndex = (page - 1) * limit;

    int endIndex = Math.min(startIndex + limit, students.size());

    return students.subList(startIndex, endIndex);

}

// API endpoint for server-side filtering

@GetMapping("/students/filter")

public List<Student> filterStudents(@RequestParam(value = "name", required = false
String name,

@RequestParam(value = "age", required = false) Integer age) {

    List<Student> filteredStudents = students;

    if (name != null) {

        filteredStudents = filteredStudents.stream()

            .filter(student -> student.getName().equalsIgnoreCase(name))

            .collect(Collectors.toList());

    }

    if (age != null) {

        filteredStudents = filteredStudents.stream()

            .filter(student -> student.getAge() == age)

            .collect(Collectors.toList());

    }

    return filteredStudents;

}

}

```

