Endpoint Being Tested: http://127.0.0.1:5000/all_students

Case: *Get all students*

Request Method: GET

Inputs:

```
{}
```

Expected Output:

```
HTTP Status Code: 200 and a list of students
```

Actual Output:

```
HTTP Status Code: 200
JSON: [{"id": 1, "user": {"id": 1, "role": "student", "name": "John Doe", "email":
"john.doe@example.com"}, "courses": []}, {"id": 2, "user": {"id": 2, "role":
"student", "name": "Jane Smith", "email": "jane.smith@example.com"}, "courses":
[]}]
```

Result: Success

Endpoint Being Tested: http://127.0.0.1:5000/student/1

Case: *Get an individual student*

Request Method: GET

Inputs:

```
{}
```

Expected Output:

```
HTTP Status Code: 200 and student details
```

Actual Output:

```
HTTP Status Code: 200
JSON: {"id": 1, "user": {"id": 1, "role": "student", "name": "John Doe", "email":
"john.doe@example.com"}, "courses": []}
```

Result: Success

Endpoint Being Tested: http://127.0.0.1:5000/student/1

Case: *Update an individual student*

Request Method: PUT

Inputs:

```
{
  "name": "Updated Student Name",
  "email": "updated_email@example.com"
}
```

Expected Output:

```
HTTP Status Code: 200 and student updated successfully
```

Actual Output:

```
HTTP Status Code: 200
JSON: {"message": "Student details updated successfully"}
```

Result: Success

Endpoint Being Tested: http://127.0.0.1:5000/student/1

Case: *Delete an individual student*

Request Method: DELETE

Inputs:

```
{}
```

Expected Output:

```
HTTP Status Code: 200 and student deleted successfully
```

Actual Output:

```
HTTP Status Code: 200
JSON: {"message": "Student deleted successfully"}
```

Result: Success

Endpoint Being Tested:
http://127.0.0.1:5000/student/1/courses

Case: *Get all courses of a student*

Request Method: GET

Inputs:

```
{}
```

Expected Output:

```
HTTP Status Code: 200 and a list of courses
```

Actual Output:

```
HTTP Status Code: 200
JSON: []
```

Result: Success

Endpoint Being Tested:
http://127.0.0.1:5000/student/1/course/1

Case: *Enroll a student in a course*

Request Method: POST

Inputs:

```
{}
```

Expected Output:

```
HTTP Status Code: 201 and student enrolled successfully
```

Actual Output:

```
HTTP Status Code: 201
JSON: {"message": "Student enrolled in course successfully"}
```

Result: Success

Endpoint Being Tested:
http://127.0.0.1:5000/student/1/course/1/grade

Case: *Get a student's grade in a course*

Request Method: GET

Inputs:

```
{}
```

Expected Output:

```
HTTP Status Code: 200 and grade details
```

Actual Output:

```
HTTP Status Code: 200
JSON: {"grade_obtained": "A"}
```

Result: Success