

■ CampusLearn Platform – REST API Documentation

■ Base URL

Development: <https://localhost:7000/api/>

Alternative: <http://localhost:5000/api/>

■ Resources

Currently, the API exposes the following resource:

- Courses → </courses>

■ Endpoints

1. *Get All Courses*

URL: </courses>

Method: GET

Description: Returns a list of all available courses.

Response Example:

```
[{"id":1,"name":"Intro to Programming","instructor":"Alice"}, {"id":2,"name":"Data Structures","instructor":"Bob"}]
```

2. *Get Course by ID*

URL: </courses/{id}>

Method: GET

Description: Returns details of a single course by its ID.

Response Example:

```
{"id":1,"name":"Intro to Programming","instructor":"Alice"}
```

Error Example (404 – Not Found):

```
{"status":404,"message":"Course not found"}
```

3. *Create a New Course*

URL: </courses>

Method: POST

Description: Adds a new course to the platform.

Request Body Example:

```
{"name":"Web Development","instructor":"Charlie"}
```

Response Example (201 – Created):

```
{"id":3,"name":"Web Development","instructor":"Charlie"}
```

■ Status Codes

200 OK	Request successful
201 Created	New resource created
404 Not Found	Requested resource not found

500 Internal Server Error	Unexpected error
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■ Authentication

Currently no authentication required (open API).

Future plans: JWT-based authentication for users/instructors.

■ Example Usage (Frontend JS)

```
async function loadCourses() {  
  let response = await fetch("https://localhost:7000/api/courses");  
  let courses = await response.json();  
  console.log(courses);  
}
```