

Context-path: *http://localhost:8081/api*

***** : *Optional field*

STUDENT

- **CREATE:** */courses/{courseId}/students*

REQUEST BODY: {

courseId: long,
lastName: string,
firstName: string,
studentNumber: string,
*gender**: string (*M, F, OTHER*)

}

RESPONSE:

- **Created:** *http Status 201 (resource created location in header)*

- **Conflict:** *http status 409*

Body: [

{

errorCode: int (*100, 101, 102, 103, 109*),

fieldName: string,

message: string

}

]

- **Internal server error:** *http status 500*

Body: {

errorCode: int (*110*),

fieldName: null,

message: string

}

- **Bad request:** *http status 400*

Body: [

{

errorCode: int (*100, 101, 102, 103, 109*),

fieldName: string,

message: string

}

]

- **GET:** */courses/{courseId}/students/{studentId}*

PATH VARIABLES: *courseId, studentId*

RESPONSE:

- **Success:** http Status 200
Body: {
 studentId: long,
 courseId: long,
 courseName: string,
 studentNumber: string,
 lastName: string,
 firstName: string,
 gender: string (M, F, OTHER)
}
- **Not Found:** http status 404
Body: {
 errorCode: int (111),
 fieldName: null,
 message: string
}
- **Internal server error:** http status 500
Body: {
 errorCode: int (110),
 fieldName: null,
 message: string
}

- **GET ALL:** /courses/{courseId}/students

PATH PARAMS: courseId

QUERY PARAMS: {
 lastName*: string,
 firstName*: string,
 gender*: string,
 offset*: int,
 limit*: int
}

RESPONSE:

- **Success:** http Status 200
Body: {
 {
 "totalElements": int,

```

    "totalPages": int,
    "size": int,
    "content": [
        {
            studentId: long,
            courseId: long,
            courseName: string,
            studentNumber: string,
            lastName: string,
            firstName: string,
            gender: string (M, F, OTHER)
        }
    ],
    "number": int,
    "sort": {
        "empty": true,
        "sorted": true,
        "unsorted": true
    },
    "numberOfElements": int,
    "first": true,
    "last": true,
    "pageable": {
        "offset": int,
        "sort": {
            "empty": true,
            "sorted": true,
            "unsorted": true
        }
    },
    "pageSize": int,
    "pageNumber": int,
    "paged": true,
    "unpaged": true
}
}
}

```

- **Internal server error**: http status 500

```

Body: {
    errorCode: int (110),
    fieldName: null,
    message: string
}

```

- **PUT**: /courses/{courseId}/students/{studentId}

REQUEST BODY: {

lastName: string,
firstName: string,
gender: string (M, F, OTHER)

}

RESPONSE:

- **Success:** http Status 200
- **Not Found:** http status 404
Body: {
 errorCode: int (111),
 fieldName: null,
 message: string
}
- **Conflict:** Http status 409
Body: [{
 errorCode: int (100, 101, 102, 103, 104),
 fieldName: string,
 message: string
}]
- **Internal server error:** http status 500
Body: {
 errorCode: int (110),
 fieldName: null,
 message: string
}
- **Bad request:** http status 400
Body: [{
 errorCode: int (100, 101, 102, 103, 104),
 fieldName: string,
 message: string
}]

- **DELETE:** /courses/{courseId}/students/{studentId}

PATH VARIABLES: courseId, studentId

RESPONSE:

- **Success:** http Status 200
- **Not Found:** http status 404
Body: {
 errorCode: int (111),

```
    fieldName: null,  
    message: string  
}
```

- **Internal server error**: http status 500

```
Body: {  
    errorCode: int (110),  
    fieldName: null,  
    message: string  
}
```

COURSE

- **CREATE**: /courses

```
REQUEST BODY: {  
    facultyId: long,  
    name: string,  
    professorName: string,  
    startDate: Date (DD-MM-YYYY)  
}
```

RESPONSE:

- **Created**: http Status 201 (resource created location in header)
- **Conflict**: http status 409

```
Body: [{  
    errorCode: int (105, 106, 107, 108),  
    fieldName: string,  
    message: string  
}]
```

- **Internal server error**: http status 500

```
Body: {  
    errorCode: int (110),  
    fieldName: null,  
    message: string  
}
```

- **Bad request**: http status 400

```
Body: [{  
    errorCode: int (105, 106, 107, 108),  
    fieldName: string,  
    message: string  
}]
```

- **GET:** /courses/{courseId}

PATH VARIABLES: courseId

RESPONSE:

- **Success:** http Status 200
Body: {
 id: long,
 facultyId: long,
 facultyName: string,
 name: string,
 professorName: string,
 startDate: Date (DD-MM-YYYY)
}
- **Not Found:** http status 404
Body: {
 errorCode: int (111),
 fieldName: null,
 message: string
}
- **Internal server error:** http status 500
Body: {
 errorCode: int (110),
 fieldName: null,
 message: string
}

- **GET ALL:** /courses

PARAMS: {

facultyName*: string,
 name*: string,
 professorName*: string,
 startDate*: Date (DD-MM-YYYY),
 offset*: int,
 limit*: int

}

RESPONSE:

- **Success:** http Status 200
Body: {
 {
 "totalElements": int,
 "totalPages": int,
 "size": int,
 "content": [
 {

```

        id: long,
        facultyId: long,
        facultyName: string,
        name: string,
        professorName: string,
        startDate: Date (DD-MM-YYYY)
    }

    ],
    "number": int,
    "sort": {
        "empty": true,
        "sorted": true,
        "unsorted": true
    },
    "numberOfElements": int,
    "first": true,
    "last": true,
    "pageable": {
        "offset": int,
        "sort": {
            "empty": true,
            "sorted": true,
            "unsorted": true
        },
        "pageSize": int,
        "pageNumber": int,
        "paged": true,
        "unpaged": true
    }
}
}
}

```

- **Internal server error:** http status 500

```

Body: {
    errorCode: int (110),
    fieldName: null,
    message: string
}

```

- **PUT:** /courses/{courseId}

```

REQUEST BODY: {
    facultyId: long,
    name: string,
    professorName: string,
    startDate: Date (DD-MM-YYYY)
}

```

RESPONSE:

- **Success:** http Status 200
- **Not Found:** http status 404
Body: {
 errorCode: int (111),
 fieldName: null,
 message: string
}
- **Conflict:** http status 409
Body: [{
 errorCode: int (105, 106, 107, 108),
 fieldName: string,
 message: string
}]
- **Internal server error:** http status 500
Body: {
 errorCode: int (110),
 fieldName: null,
 message: string
}
- **Bad request:** http status 400
Body: [{
 errorCode: int (105, 106, 107, 108),
 fieldName: string,
 message: string
}]
- **DELETE:** /courses/{courseId}

PATH VARIABLES: courseId

RESPONSE:

- **Success:** http Status 200
- **Not Found:** http status 404
Body: {
 errorCode: int (111),
 fieldName: null,
 message: string
}
- **Internal server error:** http status 500
Body: {
 errorCode: int (110),
 fieldName: null,
 message: string
}

FACULTY

- **GET ALL:** /faculties

PARAMS: {

*name**: string,
*offset**: int,
*limit**: int

}

RESPONSE:

- **Success:** http Status 200

Body: {

{

"totalElements": int,

"totalPages": int,

"size": int,

"content": [

{

id: long,

name: string

}

],

"number": int,

"sort": {

"empty": true,

"sorted": true,

"unsorted": true

},

"numberOfElements": int,

"first": true,

"last": true,

"pageable": {

"offset": int,

"sort": {

"empty": true,

"sorted": true,

"unsorted": true

},

"pageSize": int,

"pageNumber": int,

"paged": true,

"unpaged": true

}}}

- **Internal server error:** http status 500

```
Body: {  
    errorCode: int (110),  
    fieldName: null,  
    message: string  
}
```

RELATIONSHIPS

1/ COURSE <--> STUDENT : **1** – **M**

2/ COURSE <--> FACULTY : **1** – **M**

ERROR CODES:

- **100:** *lastName is empty*
- **101:** *firstName is empty*
- **102:** *gender not valid*
- **103:** *courseId is empty*
- **104:** *studentId is empty*
- **105:** *facultyId is empty*
- **106:** *name is empty*
- **107:** *professorName is empty*
- **108:** *startDate not valid*
- **109:** *studentNumber is empty*
- **110:** *Internal server error*
- **111:** *Resource not found*