

Final Project: Portfolio Assignment

CS 493: Cloud Application Development

Fall 2021

Oregon State University

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URL where application is deployed: <https://finalproject-rajamong.wl.r.appspot.com/>

URL for account creation/login: <https://finalproject-rajamong.wl.r.appspot.com/>

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Data Model

The app stores three kinds of entities in the Students, Courses, and Assignments. The 'students' entity represents the user entity. While the 'courses' and 'assignments' entities represent two non-user entities. Courses can be created, read, updated, as well as deleted, these courses are assigned to the student. Assignments can also be created, read, updated, as well as deleted, these assignments are assigned to courses, which are related to the student. The user entity is modelled using the student entity since this application is created to essentially represent a college student who is able to enroll in courses as well as view assignments that are within each of these enrolled courses. The unique identifier for users within my application, utilizes the "sub" category created from the generated JWT. Both the JWT as well as the unique identifier are automatically generated by the application when the user creates a new account, these values are linked to the user's log in information.

Students:

Property	Data Type	Notes
id	integer	The student's ID. The Datastore automatically generates this.
email	string	The email of the user who the JWT belongs to.
sub	string	The Unique ID of the user who the JWT belongs to.

Courses:

Property	Data Type	Notes
id	integer	The course's ID. The Datastore automatically generates this.
title	string	The title of the course. (e.g., Operating Systems)
subject	string	The subject of the course. (e.g., Mathematics, English)
level	string	The level of the course. (e.g., 101, 345, 493)
professor	string	The name of the professor teaching the course.
owner	string	The Unique ID of the stud who the course belongs to.
assignments	list	The assignments that belong to the course.

Assignments:

Property	Data Type	Notes
id	integer	The assignment's ID. The Datastore automatically generates this.
title	string	The title of the assignment. (e.g., Homework 1, Quiz 3, Lab 4)
due_date	date	The date when the assignment is due.
points	integer	The number of points that the assignment is worth.
finished	boolean	Whether the assignment has been submitted or not.
course_id	integer	The ID of the course that the assignment belongs to.
owner	string	The Unique ID of the user who the assignment belongs to.

View all Students

Allows you to view all existing students.

GET /students	(not protected)
---------------	-----------------

Request

Path Parameters:

None

Request Body:

None

Request Body Format:

JSON

Response Statuses:

Outcome	Status Code	Notes
Success	200 OK	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.

Response Examples:

Success:

Status: 200 OK
<pre>[{ "email": "rajamong@oregonstate.edu", "id": 5632499082330112, "self": "https://finalproject- rajamong.wl.r.appspot.com/students/5632499082330112", "sub": "113472411099456260058" }, { "email": "catherine.l.frost@hotmail.com",</pre>

```
    "id": 5636645067948032,  
    "self": "https://finalproject-  
rajamong.wl.r.appspot.com/students/5636645067948032",  
    "sub": "107492373296973451802"  
  },  
  {  
    "email": "gretel.rajamoney@gmail.com",  
    "id": 5642368648740864,  
    "self": "https://finalproject-  
rajamong.wl.r.appspot.com/students/5642368648740864",  
    "sub": "113727376696571402818"  
  }  
]  
]
```

Failures:

Status: 406 Not Acceptable

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">  
<title>405 Method Not Allowed</title>  
<h1>Method Not Allowed</h1>  
<p>The method is not allowed for the requested URL.</p>
```

Status: 405 Not Allowed

```
"sent MIME type not supported"
```

View a Student

Allows you to view an existing student.

GET /students/:student_id	(protected)
---------------------------	-------------

Request

Path Parameters:

Name	Description
student_id	The ID of the student.

Request Body:

None

Request Body Format:

JSON

Response Statuses:

Outcome	Status Code	Notes
Success	200 OK	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	404 Not Found	This status code occurs if the requested student does not exist or if the user does not have access to the student.

Response Examples:

Success:

Status: 200 OK
[
{

```
    "email": "gretel.rajamoney@gmail.com",
    "id": 5642368648740864,
    "self": "https://finalproject-
rajamong.wl.r.appspot.com/students/113727376696571402818",
    "sub": "113727376696571402818"
  }
]
```

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 404 Not Found

"you do not have access to this student"

"this student does not exist"

Create a Course

Allows you to create a new course.

POST /courses (protected)

Request

Path Parameters:

None

Request Body:

Required

Request Body Format:

JSON

Request JSON Attributes:

Name	Description
title	The title of the course. (e.g., Operating Systems)
subject	The subject of the course. (e.g., Mathematics, English)
level	The level of the course. (e.g., 101, 345, 493)
professor	The name of the professor teaching the course.
owner	The Unique ID of the stud who the course belongs to.
assignments	The assignments that belong to the course.

Request Body Example:

```
{
  "title": "Cloud Application Development",
  "subject": "Computer Science",
  "level": "493",
  "professor": "Professor Chaudry",
  "assignments": [],
  "owner": "{{user_idl}}"
}
```

Response Statuses:

Outcome	Status Code	Notes
Success	201 Created	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	400 Bad Request	This status code occurs if one or more of the required attributes is missing.

Response Examples:

Success:

Status: 201 Created

```
{
  "assignments": [],
  "id": 6690971290959872,
  "level": "493",
  "owner": "113727376696571402818",
  "professor": "Professor Chaudry",
  "self": "https://finalproject-rajamong.wl.r.appspot.com/courses/6690971290959872",
  "subject": "Computer Science",
  "title": "Cloud Application Development"
}
```

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 400 Bad Request

"the course is missing one or more of the required attributes"

View all Courses

Allows you to view all existing courses.

GET /courses	(protected)
--------------	-------------

Request

Path Parameters:

None

Request Body:

None

Request Body Format:

JSON

Response Statuses:

Outcome	Status Code	Notes
Success	200 OK	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.

Response Examples:

Success:

Status: 200 OK
<pre>{ "collection": 176, "courses": [{ "assignments": [], "id": 4536029230923776, "level": "434",</pre>

```

        "owner": "113727376696571402818",
        "professor": "Professor Lee",
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/courses/4536029230923776",
        "subject": "Computer Science",
        "title": "Machine Learning & Data Mining"
    },
    {
        "assignments": [],
        "id": 4537037071843328,
        "level": "444",
        "owner": "113727376696571402818",
        "professor": "Professor Jang",
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/courses/4537037071843328",
        "subject": "Computer Science",
        "title": "Operating Systems 2"
    },
    {
        "assignments": [],
        "id": 4579477656961024,
        "level": "444",
        "owner": "113727376696571402818",
        "professor": "Professor Jang",
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/courses/4579477656961024",
        "subject": "Computer Science",
        "title": "Operating Systems 2"
    },
    {
        "assignments": [],
        "id": 4594920882962432,
        "level": "444",
        "owner": "113727376696571402818",
        "professor": "Professor Jang",
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/courses/4594920882962432",
        "subject": "Computer Science",
        "title": "Operating Systems 2"
    },
    {
        "assignments": [],
        "id": 4599843183919104,
        "level": "444",
        "owner": "113727376696571402818",
        "professor": "Professor Jang",

```

```
        "self": "https://finalproject-  
rajamong.wl.r.appspot.com/courses/4599843183919104",  
        "subject": "Computer Science",  
        "title": "Operating Systems 2"  
    }  
],  
    "next": "https://finalproject-  
rajamong.wl.r.appspot.com/courses?limit=5&offset=5"  
}
```

Failures:

Status: 406 Not Acceptable

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">  
<title>405 Method Not Allowed</title>  
<h1>Method Not Allowed</h1>  
<p>The method is not allowed for the requested URL.</p>
```

Status: 405 Not Allowed

```
"sent MIME type not supported"
```

Status: 401 Unauthorized

```
"the jwt is wrong"  
"there is no jwt"
```

View a Course

Allows you to view an existing course.

GET /courses/:course_id	(protected)
-------------------------	-------------

Request

Path Parameters:

Name	Description
course_id	The ID of the course.

Request Body:

None

Request Body Format:

JSON

Response Statuses:

Outcome	Status Code	Notes
Success	200 OK	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	404 Not Found	This status code occurs if the requested course does not exist or if the user does not have access to the course.

Response Examples:

Success:

Status: 200 OK
<pre>{ "assignments": [],</pre>

```
{
  "id": 6690971290959872,
  "level": "493",
  "owner": "113727376696571402818",
  "professor": "Professor Chaudry",
  "self": "https://finalproject-
  rajamong.wl.r.appspot.com/courses/6690971290959872",
  "subject": "Computer Science",
  "title": "Cloud Application Development"
}
```

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 404 Not Found

"you do not have access to this course"

"this course does not exist"

Delete a Course

Allows you to delete an existing course.

DELETE /courses/:course_id (protected)
--

Request

Path Parameters:

Name	Description
course_id	The ID of the course.

Request Body:

None

Request Body Format:

Success: No Body

Failure: JSON

Response Statuses:

Outcome	Status Code	Notes
Success	204 No Content	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	404 Not Found	This status code occurs if the requested course does not exist or if the user does not have access to the course.

Response Examples:

Success:

Status: 204 No Content

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 404 Not Found

"you do not have access to this course"

"this course does not exist"

Edit a Course

Allows you to edit an existing course.

PUT /courses/:course_id	(protected)
PATCH /courses/:course_id	(protected)

Request

Path Parameters:

Name	Description
course_id	The ID of the course.

Request Body:

Required

Request Body Format:

JSON

Request JSON Attributes:

Name	Description
title	The title of the course. (e.g., Operating Systems)
subject	The subject of the course. (e.g., Mathematics, English)
level	The level of the course. (e.g., 101, 345, 493)
professor	The name of the professor teaching the course.
owner	The Unique ID of the stud who the course belongs to.
assignments	The assignments that belong to the course.

Request Body Example:

```
{
  "title": "Cloud Application Development",
  "subject": "Computer Science",
  "level": "493",
  "professor": "Professor Chaudry",
  "assignments": [],
  "owner": "{{user_id1}}"
}
```


Response Statuses:

Outcome	Status Code	Notes
Success	201 Created	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	400 Bad Request	This status code occurs if one or more of the required attributes is missing.

Response Examples:

Success:

Status: 201 Created

```
{
  "assignments": [],
  "id": 6690971290959872,
  "level": "493",
  "owner": "113727376696571402818",
  "professor": "Professor Chaudry",
  "self": "https://finalproject-rajamong.wl.r.appspot.com/courses/6690971290959872",
  "subject": "Computer Science",
  "title": "Cloud Application Development"
}
```

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 400 Bad Request

"the course is missing one or more of the required attributes"

Create an Assignment

Allows you to create a new assignment.

POST /assignments (protected)

Request

Path Parameters:

None

Request Body:

Required

Request Body Format:

JSON

Request JSON Attributes:

Name	Description
title	The title of the assignment. (e.g., Homework 1, Lab 4)
due_date	The date that the assignment is due.
points	The number of points the assignment is worth.
finished	Whether the assignment has been completed or not.

Request Body Example:

```
{
  "title": "GAE",
  "due_date": "10/5/2021",
  "points": 10,
  "finished": true
}
```

Response Statuses:

Outcome	Status Code	Notes
Success	201 Created	

Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	400 Bad Request	This status code occurs if one or more of the required attributes is missing.

Response Examples:

Success:

Status: 201 Created

```
{
  "course_id": null,
  "due_date": "10/5/2021",
  "finished": false,
  "id": 6370169781747712,
  "owner": "113727376696571402818",
  "points": 10,
  "self": "https://finalproject-
  rajamong.wl.r.appspot.com/assignments/6370169781747712",
  "title": "GAE"
}
```

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 400 Bad Request

"the assignment is missing one or more of the required attributes"

View all Assignments

Allows you to view all existing assignments.

GET /assignments	(protected)
------------------	-------------

Request

Path Parameters:

None

Request Body:

None

Request Body Format:

JSON

Response Statuses:

Outcome	Status Code	Notes
Success	200 OK	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.

Response Examples:

Success:

Status: 200 OK
<pre>{ "assignments": [{ "course_id": null, "due_date": "10/12/2021", "finished": false, "id": 4544724593541120, }] }</pre>

```

        "owner": "113727376696571402818",
        "points": 10,
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/assignments/4544724593541120",
        "title": "Use a Web API"
    },
    {
        "course_id": null,
        "due_date": "10/12/2021",
        "finished": false,
        "id": 4551752837758976,
        "owner": "113727376696571402818",
        "points": 10,
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/assignments/4551752837758976",
        "title": "Use a Web API"
    },
    {
        "course_id": null,
        "due_date": "10/12/2021",
        "finished": false,
        "id": 4555476842840064,
        "owner": "113727376696571402818",
        "points": 10,
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/assignments/4555476842840064",
        "title": "Use a Web API"
    },
    {
        "course_id": null,
        "due_date": "10/12/2021",
        "finished": false,
        "id": 4577847381327872,
        "owner": "113727376696571402818",
        "points": 10,
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/assignments/4577847381327872",
        "title": "Use a Web API"
    },
    {
        "course_id": null,
        "due_date": "10/12/2021",
        "finished": false,
        "id": 4582827194580992,
        "owner": "113727376696571402818",
        "points": 10,

```

```
      "self": "https://finalproject-  
rajamong.wl.r.appspot.com/assignments/4582827194580992",  
      "title": "Use a Web API"  
    }  
  ],  
  "collection": 144,  
  "next": "https://finalproject-  
rajamong.wl.r.appspot.com/assignments?limit=5&offset=5"  
}
```

Failures:

Status: 406 Not Acceptable

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">  
<title>405 Method Not Allowed</title>  
<h1>Method Not Allowed</h1>  
<p>The method is not allowed for the requested URL.</p>
```

Status: 405 Not Allowed

```
"sent MIME type not supported"
```

Status: 401 Unauthorized

```
"the jwt is wrong"  
"there is no jwt"
```

View an Assignment

Allows you to view an existing assignment.

GET /assignments/:assignment_id	(protected)
---------------------------------	-------------

Request

Path Parameters:

Name	Description
assignments_id	The ID of the assignment.

Request Body:

None

Request Body Format:

JSON

Response Statuses:

Outcome	Status Code	Notes
Success	200 OK	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	404 Not Found	This status code occurs if the requested assignment does not exist or if the user does not have access to the assignment.

Response Examples:

Success:

Status: 200 OK { "course_id": null,

```
    "due_date": "10/5/2021",
    "finished": false,
    "id": 6370169781747712,
    "owner": "113727376696571402818",
    "points": 10,
    "self": "https://finalproject-
    rajamong.wl.r.appspot.com/assignments/6370169781747712",
    "title": "GAE"
  }
```

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 404 Not Found

"you do not have access to this assignment"

"this assignment does not exist"

Delete an Assignment

Allows you to delete an existing assignment.

DELETE /assignments/:assignment_id	(protected)
------------------------------------	-------------

Request

Path Parameters:

Name	Description
assignment_id	The ID of the assignment.

Request Body:

None

Request Body Format:

Success: No Body

Failure: JSON

Response Statuses:

Outcome	Status Code	Notes
Success	204 No Content	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	404 Not Found	This status code occurs if the requested assignment does not exist or if the user does not have access to the assignment.

Response Examples:

Success:

Status: 204 No Content

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 404 Not Found

"you do not have access to this assignment"

"this assignment does not exist"

Edit an Assignment

Allows you to edit an existing assignment.

PUT /assignments/:assignment_id	(protected)
PATCH /assignments/:assignment_id	(protected)

Request

Path Parameters:

Name	Description
assignment_id	The ID of the assignment.

Request Body:

Required

Request Body Format:

JSON

Request JSON Attributes:

Name	Description
title	The title of the assignment. (e.g., Homework 1, Lab 4)
due_date	The date that the assignment is due.
points	The number of points the assignment is worth.
finished	Whether the assignment has been completed or not.

Request Body Example:

```
{
  "title": "GAE",
  "due_date": "10/5/2021",
  "points": 10,
  "finished": true
}
```

Response Statuses:

Outcome	Status Code	Notes
Success	201 Created	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	400 Bad Request	This status code occurs if one or more of the required attributes is missing.

Response Examples:

Success:

Status: 201 Created

```
{
  "course_id": "null",
  "due_date": "11/1/2021",
  "finished": false,
  "id": 5298608324739072,
  "owner": "113727376696571402818",
  "points": 10,
  "self": "https://finalproject-rajamong.wl.r.appspot.com/assignments/5298608324739072",
  "title": "Quiz 1"
}
```

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 400 Bad Request

"the assignment is missing one or more of the required attributes"

Create an Assignment in a Course

Allows you to create a new assignment in an existing course.

POST /courses/:course_id/assignments	(protected)
--------------------------------------	-------------

Request

Path Parameters:

Name	Description
course_id	The ID of the course.

Request Body:

Required

Request Body Format:

JSON

Request JSON Attributes:

Name	Description
title	The title of the assignment. (e.g., Homework 1, Lab 4)
due_date	The date that the assignment is due.
points	The number of points the assignment is worth.
finished	Whether the assignment has been completed or not.

Request Body Example:

```
{
  "title": "GAE",
  "due_date": "10/5/2021",
  "points": 10,
  "finished": true
}
```

Response Statuses:

Outcome	Status Code	Notes
Success	201 Created	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid. Or if course_id is invalid.
Failure	400 Bad Request	This status code occurs if one or more of the required attributes is missing.

Response Examples:

Success:

Status: 201 Created

```
{
  "course_id": 5246940136603648,
  "due_date": "10/5/2021",
  "finished": false,
  "id": 6370169781747712,
  "owner": "113727376696571402818",
  "points": 10,
  "self": "https://finalproject-
  rajamong.wl.r.appspot.com/assignments/6370169781747712",
  "title": "GAE"
}
```

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

"this course can not be found"

Status: 400 Bad Request

"the assignment is missing one or more of the required attributes"

View all Assignments in a Course

Allows you to view all existing assignments in an existing course.

GET /courses/:course_id/assignments	(protected)
-------------------------------------	-------------

Request

Path Parameters:

Name	Description
course_id	The ID of the course.

Request Body:

None

Request Body Format:

JSON

Response Statuses:

Outcome	Status Code	Notes
Success	200 OK	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.

Response Examples:

Success:

Status: 200 OK
<pre>{ "assignments": [{ "course_id": 5246940136603648, "due_date": "10/12/2021",</pre>

```

        "finished": false,
        "id": 4544724593541120,
        "owner": "113727376696571402818",
        "points": 10,
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/assignments/4544724593541120",
        "title": "Use a Web API"
    },
    {
        "course_id": 5246940136603648,
        "due_date": "10/12/2021",
        "finished": false,
        "id": 4551752837758976,
        "owner": "113727376696571402818",
        "points": 10,
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/assignments/4551752837758976",
        "title": "Use a Web API"
    },
    {
        "course_id": 5246940136603648,
        "due_date": "10/12/2021",
        "finished": false,
        "id": 4555476842840064,
        "owner": "113727376696571402818",
        "points": 10,
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/assignments/4555476842840064",
        "title": "Use a Web API"
    },
    {
        "course_id": 5246940136603648,
        "due_date": "10/12/2021",
        "finished": false,
        "id": 4577847381327872,
        "owner": "113727376696571402818",
        "points": 10,
        "self": "https://finalproject-
rajamong.wl.r.appspot.com/assignments/4577847381327872",
        "title": "Use a Web API"
    },
    {
        "course_id": 5246940136603648,
        "due_date": "10/12/2021",
        "finished": false,
        "id": 4582827194580992,
        "owner": "113727376696571402818",

```



```
        "points": 10,  
        "self": "https://finalproject-  
rajamong.wl.r.appspot.com/assignments/4582827194580992",  
        "title": "Use a Web API"  
    }  
],  
    "collection": 144,  
    "next": "https://finalproject-  
rajamong.wl.r.appspot.com/assignments?limit=5&offset=5"  
}
```

Failures:

Status: 406 Not Acceptable

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">  
<title>405 Method Not Allowed</title>  
<h1>Method Not Allowed</h1>  
<p>The method is not allowed for the requested URL.</p>
```

Status: 405 Not Allowed

```
"sent MIME type not supported"
```

Status: 401 Unauthorized

```
"the jwt is wrong"  
"there is no jwt"
```

Put an Assignment into a Course

Allows you to put an existing assignment into an existing course.

PUT /courses/:course_id/assignments/:assignment_id (protected)
--

Request

Path Parameters:

Name	Description
course_id	The ID of the course.
assignment_id	The ID of the assignment.

Request Body:

None

Request Body Format:

JSON

Response Statuses:

Outcome	Status Code	Notes
Success	204 No Content	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	403 Forbidden	This status code occurs if the assignment is already in the course.
Failure	400 Bad Request	This status code occurs if one or more of the required attributes is missing.
Failure	404 Not Found	This status code occurs if the course or assignment can not be found.

Response Examples:

Success:

Status: 204 No Content

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 403 Forbidden

"this assignment is already in the course"
--

Status: 400 Bad Request

"the assignment is missing one or more of the required attributes"
--

Status: 404 Not Found

"this assignment can not be found"

"this course can not be found"

Delete an Assignment from a Course

Allows you to put an existing assignment into an existing course.

PUT /courses/:course_id/assignments/:assignment_id (protected)
--

Request

Path Parameters:

Name	Description
course_id	The ID of the course.
assignment_id	The ID of the assignment.

Request Body:

None

Request Body Format:

JSON

Response Statuses:

Outcome	Status Code	Notes
Success	204 No Content	
Failure	406 Not Acceptable	This status code occurs if the requested MIME type is not supported by the application.
Failure	405 Not Allowed	This status code occurs if the requested method is not supported by the application.
Failure	401 Unauthorized	This status code occurs if the JWT Bearer Token provided is either missing or invalid.
Failure	403 Forbidden	This status code occurs if the assignment is already in the course.
Failure	400 Bad Request	This status code occurs if one or more of the required attributes is missing.
Failure	404 Not Found	This status code occurs if the course or assignment can not be found.

Response Examples:

Success:

Status: 204 No Content

Failure:

Status: 406 Not Acceptable

"requested MIME type not supported"

Status: 405 Not Allowed

"this method is not recognized"

Status: 401 Unauthorized

"the jwt is wrong"

"there is no jwt"

Status: 403 Forbidden

"this assignment is already in the course"
--

Status: 400 Bad Request

"the assignment is missing one or more of the required attributes"
--

Status: 404 Not Found

"this assignment can not be found"

"this course can not be found"
