
Moxie Courses API Documentation

Release 0.1

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August 08, 2016

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1.1 Courses endpoint

Endpoint to search and retrieve information about graduate courses. Follows specification of Moxie.

GET `/courses/course/` (*string: id*)
Get details of a course by its ID

Example request:

```
GET /courses/course/daisy-course-8572 HTTP/1.1
Host: api.m.ox.ac.uk
Accept: application/json
```

Example response as JSON:

```
HTTP/1.1 200 OK
Content-Type: application/hal+json

{
  "subjects": [],
  "_embedded": {
    "presentations": [
      {
        "attendance_pattern": "Daytime",
        "apply_from": "2012-10-01T00:00:00",
        "apply_until": "2012-11-16T00:00:00",
        "apply_link": "https://weblearn.ox.ac.uk/course-signup/rest/course/3C09CZ0004",
        "_links": {
          "poi": {
            "href": "/places/oxpoints:23232609"
          }
        },
        "location": "oxpoints:23232609",
        "attendance_mode": "Campus",
        "id": "daisy-presentation-19625"
      },
      {
        "attendance_pattern": "Daytime",
        "apply_from": "2012-10-01T00:00:00",
        "apply_until": "2012-11-16T00:00:00",
        "apply_link": "https://weblearn.ox.ac.uk/course-signup/rest/course/3C09CZ0004",
        "_links": {
          "poi": {
```

```

        "href": "/places/oxpoints:23232609"
      }
    },
    "location": "oxpoints:23232609",
    "attendance_mode": "Campus",
    "id": "daisy-presentation-15277"
  }
]
},
"description": "Topics to be [...] ousand Oaks, CA: Sage Publications. \n",
"title": "Beyond Surveys - Researching the Internet and Internet Data ",
"_links": {
  "self": {
    "href": "/courses/course/daisy-course-8572"
  }
},
"provider": "Oxford Internet Institute",
"id": "daisy-course-8572"
}

```

Each presentation MAY have a link to *poi*, representing the Place of Interest where the course should take place.

Parameters

- **id** (*string*) – ID of the resource

Status Codes

- 200 OK – resource found
- 404 Not Found – no resource found

GET /courses/search

Search for courses by title / description or subjects.

Example request:

```

GET /courses/search?q=python HTTP/1.1
Host: api.m.ox.ac.uk
Accept: application/hal+json

```

Example response as HAL+JSON:

```

HTTP/1.1 200 OK
Content-Type: application/hal+json

{
  "query": "python",
  "_embedded": {
    "courses": [
      {
        "_embedded": {
          "presentations": [
            {
              "attendance_pattern": "Daytime",
              "apply_from": "2012-10-01T00:00:00",
              "apply_until": "2012-11-16T00:00:00",
              "apply_link": "https://weblearn.ox.ac.uk/course-signup/rest/course/3C09CZ0004",
              "_links": {
                "poi": {
                  "href": "/places/oxpoints:23232609"
                }
              }
            }
          ]
        }
      }
    ]
  }
}

```

```

    }
    },
    "location": "oxpoints:23232609",
    "attendance_mode": "Campus",
    "id": "daisy-presentation-19625"
  }
]
},
"description": "Topics to be cove[...] CA: Sage Publications. \n",
"title": "Beyond Surveys - Researching the Internet and Internet Data ",
"subjects": [],
"_links": {
  "self": {
    "href": "/courses/course/daisy-course-8572"
  }
},
"provider": "Oxford Internet Institute",
"id": "daisy-course-8572"
}
]
},
"_links": {
  "hl:first": {
    "href": "/courses/search?q=python&count=35"
  },
  "curie": {
    "href": "http://moxie.readthedocs.org/en/latest/http_api/relations/{rel}.html",
    "name": "hl",
    "templated": true
  },
  "self": {
    "href": "/courses/search?q=python"
  },
  "hl:last": {
    "href": "/courses/search?q=python&count=35"
  }
}
}
}

```

The response contains a list of results, links to go to first, previous, next and last pages depending on current *start* and *count* parameters, and the total count of results.

Query Parameters

- **q** – full text search query
- **start** – first result to display
- **count** – number of results to display

Status Codes

- **200 OK** – results found
- **400 Bad Request** – search query is inconsistent (expect details about the error as plain/text in the body of the response)
- **503 Service Unavailable** – search service is not available

GET /courses/subjects

Get a list of subjects

Example request:

```
GET /courses/subjects HTTP/1.1
Host: api.m.ox.ac.uk
Accept: application/hal+json
```

Example response as HAL+JSON:

```
HTTP/1.1 200 OK
Content-Type: application/hal+json

{
  "_links": {
    "self": {
      "href": "/courses/subjects"
    },
    "courses:subject": [
      {
        "count": 32,
        "href": "/courses/search?q=course_subject%3A%22Career+Development%22",
        "title": "Career Development"
      },
      {
        "count": 24,
        "href": "/courses/search?q=course_subject%3A%22Communication+skills%22",
        "title": "Communication skills"
      },
      {
        "count": 15,
        "href": "/courses/search?q=course_subject%3A%22Teaching+and+Academic+Skills%22",
        "title": "Teaching and Academic Skills"
      },
      {
        "count": 7,
        "href": "/courses/search?q=course_subject%3A%22Technical+skills%22",
        "title": "Technical skills"
      }
    ]
  }
}
```

You can browse courses by using the relation *courses:subjects* which provides links to the search resource, to search by subject.

Status Codes

- 200 OK – results found
- 503 Service Unavailable – search service is not available

2.1 WebLearn

WebLearn (Sakai) is a provider available for booking some presentations.

2.1.1 Making a request to the API

All requests should be made requesting JSON (by specifying the HTTP header “Accept: application/json”).

2.1.2 Handling errors from the API

When requesting JSON and in case of an error, some errors will be returned with a description in JSON (see [original “documentation”](#)):

- if the access to the resource is forbidden (HTTP 403)
- if the resource has not been found (HTTP 404)

For these errors, you will get a JSON response containing:

- *status* property: “failed”
- *message* property: a user-friendly message

All other exceptions will return an HTML response, you will have to handle the response code.

2.1.3 Booking a course

POST request to `/course/cobomo/XXX/booking` where *XXX* is the course ID.

Form parameters:

- *message*: mandatory message where the user should explain the reasons to book a course
- *supervisorEmail* is only mandatory if ‘supervisorApproval’ is *true* when you request details on one course.

Returns an object where the *status* property can be:

- *WAITING*: if the component is full
- *PENDING*: in any other case

2.1.4 Getting information on one course

Request to `/course/cobomo/XXX` where `XXX` is the course ID.

Contains a property `supervisorApproval` which will determine if asking the user for the email address of its supervisor is mandatory.

The response contains a property `supervisorApproval` which determines if asking the user for

2.1.5 Getting information on booked course for one user

Status can be `WITHDRAWN` (meaning that the user has withdrawn his booking, and can book *again* the presentation).

2.1.6 Withdrawing a booked course

When a student withdraw a course, he cannot book the same course again, he would have to ask the course administrator to re-instate them.

Internal API

3.1 Overview

3.1.1 Courses services

Methods to search courses from defined providers.

Indices and tables

- `genindex`
- `modindex`
- `search`

/courses

GET /courses/course/(string:id), 1

GET /courses/search, 2

GET /courses/subjects, 3