**Edx API**

1. **Create Course**

Action: POST /course/

Data: JSON ของ org/number/display\_name/run  
เช่น {"org":"SBS","number":"AAA101","display\_name":"AAA Course","run":"AAA2016"}

Return: JSON object  
  
url และ course\_key ถ้าสำเร็จ

{

"url": "/course/course-v1:SBS+AAA101+AAA2016",

"course\_key": "course-v1:SBS+AAA101+AAA2016"

}

Error ถ้าซ้ำหรือ อื่นๆ

{

"CourseErrMsg": "Please change either the organization or course number so that it is unique.",

"OrgErrMsg": "Please change either the organization or course number so that it is unique.",

"ErrMsg": "There is already a course defined with the same organization and course number. Please change either organization or course number to be unique."

}

**Request:**

POST http://edx.sbs-app.com:18010/course/ HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json; charset=utf-8

X-CSRFToken: WMljzC6A6wCV1V78VFMQeB3y24IUZds4

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/home/

Content-Length: 75

Cookie: csrftoken=WMljzC6A6wCV1V78VFMQeB3y24IUZds4; edxloggedin=true; sessionid=urz2tsdh8j4eptc9oxjwdz3u4wp543k3; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

{"org":"SBS","number":"AAA101","display\_name":"AAA Course","run":"AAA2016"}

**Response:**

HTTP/1.1 200 OK

…

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 100

{

"url": "/course/course-v1:SBS+AAA101+AAA2016",

"course\_key": "course-v1:SBS+AAA101+AAA2016"

}

1. **Create Section**

Action: POST /xblock/

Data: JSON ของ parent\_locator (เป็น id ของคอร์ส)/category=”chapter”/display\_name  
{"parent\_locator":"block-v1:SBS+AAA101+AAA2016+type@course+block@course","category":"chapter","display\_name":"Section"}

Return: JSON object  
 {

"locator": "block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a",

"courseKey": "course-v1:SBS+AAA101+AAA2016"

}

**Request:**

POST http://edx.sbs-app.com:18010/xblock/ HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json; charset=utf-8

X-CSRFToken: WMljzC6A6wCV1V78VFMQeB3y24IUZds4

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016

Content-Length: 119

Cookie: csrftoken=WMljzC6A6wCV1V78VFMQeB3y24IUZds4; edxloggedin=true; sessionid=urz2tsdh8j4eptc9oxjwdz3u4wp543k3; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

{"parent\_locator":"block-v1:SBS+AAA101+AAA2016+type@course+block@course","category":"chapter","display\_name":"Section"}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Mon, 27 Jun 2016 05:19:24 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 146

{

"locator": "block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a",

"courseKey": "course-v1:SBS+AAA101+AAA2016"

}

1. **Read Course Structure**

Action: GET /xblock/outline/block-v1:SBS+AAA101+AAA2016+type@course+block@course

\*Course\_id อยู่ตรงขีดเส้นใต้

Return: JSON object ของโครงสร้าง  
**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Mon, 27 Jun 2016 05:19:24 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 2381

{

"has\_explicit\_staff\_lock": false,

"graded": false,

"explanatory\_message": null,

"actions": {

"draggable": true,

"childAddable": true,

"deletable": true

},

"id": "block-v1:SBS+AAA101+AAA2016+type@course+block@course",

"category": "course",

"published\_on": "Jun 27, 2016 at 05:19 UTC",

"display\_name": "AAA Course",

"due": null,

"studio\_url": "/course/course-v1:SBS+AAA101+AAA2016",

"start": "2030-01-01T00:00:00Z",

"edited\_on": "Jun 27, 2016 at 05:19 UTC",

"has\_changes": false,

"ancestor\_has\_staff\_lock": false,

"course\_graders": [

"Homework",

"Lab",

"Midterm Exam",

"Final Exam"

],

"due\_date": "",

"format": null,

"visibility\_state": null,

"released\_to\_students": false,

"staff\_only\_message": false,

"group\_access": {},

"release\_date": null,

"user\_partitions": [],

"child\_info": {

"category": "chapter",

"display\_name": "Section",

"children": [

{

"has\_explicit\_staff\_lock": false,

"graded": false,

"explanatory\_message": null,

"actions": {

"draggable": true,

"childAddable": true,

"deletable": true

},

"id": "block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a",

"category": "chapter",

"published\_on": "Jun 27, 2016 at 05:19 UTC",

"display\_name": "Section",

"due": null,

"studio\_url": "/course/course-v1:SBS+AAA101+AAA2016?show=block-v1%3ASBS%2BAAA101%2BAAA2016%2Btype%40chapter%2Bblock%407b761147b3f2420cb96c31eff038ca0a",

"start": "2030-01-01T00:00:00Z",

"edited\_on": "Jun 27, 2016 at 05:19 UTC",

"has\_changes": false,

"ancestor\_has\_staff\_lock": false,

"course\_graders": [

"Homework",

"Lab",

"Midterm Exam",

"Final Exam"

],

"due\_date": "",

"format": null,

"visibility\_state": "unscheduled",

"released\_to\_students": false,

"staff\_only\_message": false,

"group\_access": {},

"release\_date": null,

"user\_partitions": [],

"child\_info": {

"category": "sequential",

"display\_name": "Subsection",

"children": []

},

"published": true

}

]

},

"published": true

}

1. **Edit Section Metadata (แก้ไขชื่อ section)**

Action: POST /xblock/{section locator id}

เช่น  
POST /xblock/block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a

Data: JSON ของ data ที่เปลี่ยน  
{"metadata":{"display\_name":"Section1"}}

Return: JSON object

{

"data": null,

"id": "block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a",

"metadata": {

"display\_name": "Section1"

}

}

**Request:**

POST http://edx.sbs-app.com:18010/xblock/block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json

X-CSRFToken: WMljzC6A6wCV1V78VFMQeB3y24IUZds4

X-HTTP-Method-Override: PATCH

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016

Content-Length: 40

Cookie: csrftoken=WMljzC6A6wCV1V78VFMQeB3y24IUZds4; edxloggedin=true; sessionid=urz2tsdh8j4eptc9oxjwdz3u4wp543k3; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

{"metadata":{"display\_name":"Section1"}}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Mon, 27 Jun 2016 05:19:27 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 163

{

"data": null,

"id": "block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a",

"metadata": {

"display\_name": "Section1"

}

}

1. **List Section Data**

Action: GET /xblock/outline/{section locator id}

เช่น  
GET /xblock/outline/block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a

Return: JSON object

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Mon, 27 Jun 2016 05:19:27 GMT

…

Content-Language: en

Content-Length: 1138

{

"has\_explicit\_staff\_lock": false,

"graded": false,

"explanatory\_message": null,

"actions": {

"draggable": true,

"childAddable": true,

"deletable": true

},

"id": "block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a",

"category": "chapter",

"published\_on": "Jun 27, 2016 at 05:19 UTC",

"display\_name": "Section1",

"due": null,

"studio\_url": "/course/course-v1:SBS+AAA101+AAA2016?show=block-v1%3ASBS%2BAAA101%2BAAA2016%2Btype%40chapter%2Bblock%407b761147b3f2420cb96c31eff038ca0a",

"start": "2030-01-01T00:00:00Z",

"edited\_on": "Jun 27, 2016 at 05:19 UTC",

"has\_changes": false,

"ancestor\_has\_staff\_lock": false,

"course\_graders": [

"Homework",

"Lab",

"Midterm Exam",

"Final Exam"

],

"due\_date": "",

"format": null,

"visibility\_state": "unscheduled",

"released\_to\_students": false,

"staff\_only\_message": false,

"group\_access": {},

"release\_date": null,

"user\_partitions": [],

"child\_info": {

"category": "sequential",

"display\_name": "Subsection",

"children": []

},

"published": true

}

1. **Create SubSection**

Action: POST /xblock/

Data: JSON ของ parent\_locator (id ของ section)/category=”sequential”/display\_name

{"parent\_locator":"block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a","category":"sequential","display\_name":"Subsection"}

Return: JSON object  
{

"locator": "block-v1:SBS+AAA101+AAA2016+type@sequential+block@99922ed06e4e47a8993ff05a869b46ce",

"courseKey": "course-v1:SBS+AAA101+AAA2016"

}

**Request:**

POST http://edx.sbs-app.com:18010/xblock/ HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json; charset=utf-8

X-CSRFToken: WMljzC6A6wCV1V78VFMQeB3y24IUZds4

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016

Content-Length: 152

Cookie: csrftoken=WMljzC6A6wCV1V78VFMQeB3y24IUZds4; edxloggedin=true; sessionid=urz2tsdh8j4eptc9oxjwdz3u4wp543k3; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

{"parent\_locator":"block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a","category":"sequential","display\_name":"Subsection"}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Mon, 27 Jun 2016 05:19:31 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 149

{

"locator": "block-v1:SBS+AAA101+AAA2016+type@sequential+block@99922ed06e4e47a8993ff05a869b46ce",

"courseKey": "course-v1:SBS+AAA101+AAA2016"

}

1. **Edit SubSection (เหมือน section)**

Action: POST /xblock/{section locator id}

เช่น  
POST /xblock/block-v1:SBS+AAA101+AAA2016+type@sequential+block@99922ed06e4e47a8993ff05a869b46ce

Data: JSON ของ data ที่เปลี่ยน  
{"metadata":{"display\_name":"Subsection1"}}

Return: JSON object

{

"data": null,

"id": "block-v1:SBS+AAA101+AAA2016+type@sequential+block@99922ed06e4e47a8993ff05a869b46ce",

"metadata": {

"display\_name": "Subsection1"

}

}

**Request:**

POST http://edx.sbs-app.com:18010/xblock/block-v1:SBS+AAA101+AAA2016+type@sequential+block@99922ed06e4e47a8993ff05a869b46ce HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json

X-CSRFToken: WMljzC6A6wCV1V78VFMQeB3y24IUZds4

X-HTTP-Method-Override: PATCH

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016

Content-Length: 43

Cookie: csrftoken=WMljzC6A6wCV1V78VFMQeB3y24IUZds4; edxloggedin=true; sessionid=urz2tsdh8j4eptc9oxjwdz3u4wp543k3; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

{"metadata":{"display\_name":"Subsection1"}}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Mon, 27 Jun 2016 05:19:34 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 169

{

"data": null,

"id": "block-v1:SBS+AAA101+AAA2016+type@sequential+block@99922ed06e4e47a8993ff05a869b46ce",

"metadata": {

"display\_name": "Subsection1"

}

}

1. **Add Unit (เหมือน section)**

Action: POST /xblock/

Data: JSON ของ parent\_locator (เป็น id ของ subsection)/category=”vertical”/display\_name  
{"parent\_locator":"block-v1:SBS+AAA101+AAA2016+type@sequential+block@99922ed06e4e47a8993ff05a869b46ce","category":"vertical","display\_name":"Unit"}

Return: JSON object  
 {

"locator": "block-v1:SBS+AAA101+AAA2016+type@vertical+block@08cefb076e3d495b89c2a99813d01559",

"courseKey": "course-v1:SBS+AAA101+AAA2016"

}

**Request:**

POST http://edx.sbs-app.com:18010/xblock/ HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json; charset=utf-8

X-CSRFToken: WMljzC6A6wCV1V78VFMQeB3y24IUZds4

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016

Content-Length: 147

Cookie: csrftoken=WMljzC6A6wCV1V78VFMQeB3y24IUZds4; edxloggedin=true; sessionid=urz2tsdh8j4eptc9oxjwdz3u4wp543k3; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

{"parent\_locator":"block-v1:SBS+AAA101+AAA2016+type@sequential+block@99922ed06e4e47a8993ff05a869b46ce","category":"vertical","display\_name":"Unit"}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Mon, 27 Jun 2016 05:19:36 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 147

{

"locator": "block-v1:SBS+AAA101+AAA2016+type@vertical+block@08cefb076e3d495b89c2a99813d01559",

"courseKey": "course-v1:SBS+AAA101+AAA2016"

}

1. **Section re-location (ย้ายตำแหน่ง section)**

Action: PUT /xblock/block-v1:SBS+AAA101+AAA2016+type@course+block@course  
\* ขีดเส้นใต้คือ course id

Data: JSON ของ ลำดับของ section ทั้งหมด

{"children":["block-v1:SBS+AAA101+AAA2016+type@chapter+block@2d975966352849cfb93b26e15b94c82a","block-v1:SBS+AAA101+AAA2016+type@chapter+block@cfeb286b8df849e3b15c45a65486bad2","block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a"]}

Return: JSON object แสดงรายละเอียดของคอร์ส  
**Request:**

PUT http://edx.sbs-app.com:18010/xblock/block-v1:SBS+AAA101+AAA2016+type@course+block@course HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json

X-CSRFToken: EyO0srIydQiNVSshi2wp9LstnQVTFC4w

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016?show=block-v1%3ASBS%2BAAA101%2BAAA2016%2Btype%40chapter%2Bblock%40cfeb286b8df849e3b15c45a65486bad2

Content-Length: 260

Cookie: csrftoken=EyO0srIydQiNVSshi2wp9LstnQVTFC4w; edxloggedin=true; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"; sessionid=pubnfj0ry0g0lojt8phwnnyjd47sg4ba

Connection: keep-alive

{"children":["block-v1:SBS+AAA101+AAA2016+type@chapter+block@2d975966352849cfb93b26e15b94c82a","block-v1:SBS+AAA101+AAA2016+type@chapter+block@cfeb286b8df849e3b15c45a65486bad2","block-v1:SBS+AAA101+AAA2016+type@chapter+block@7b761147b3f2420cb96c31eff038ca0a"]}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Tue, 28 Jun 2016 06:10:37 GMT

Content-Type: application/json

Connection: keep-alive

Content-Language: en

Content-Length: 793

{

"data": null,

"id": "block-v1:SBS+AAA101+AAA2016+type@course+block@course",

"metadata": {

"display\_name": "AAA Course",

"language": "en",

….

"cert\_html\_view\_enabled": true,

"discussion\_topics": {

"General": {

"id": "course"

}

},

"start": "2030-01-01T00:00:00Z"

}

}

1. **Sub-Section re-location (ย้ายตำแหน่ง sub-section)**

Action: PUT /xblock/block-v1:SBS+AAA101+AAA2016+type@chapter+block@cfeb286b8df849e3b15c45a65486bad2  
\* PUT ไปที่ block-id ของ section ที่ย้ายไปอยู่

Data: JSON ของ ลำดับของ sub-section ทั้งหมดใน section นั้น

{"children":["block-v1:SBS+AAA101+AAA2016+type@sequential+block@ad86694e2eb34892b494b548840e3891","block-v1:SBS+AAA101+AAA2016+type@sequential+block@1ba12da999ce4b078c5ded796221ec9f","block-v1:SBS+AAA101+AAA2016+type@sequential+block@5929df3933be4a9fbb1f151cc191e33a"]}

Return: JSON object แสดงรายละเอียดของ section  
**Request:**

PUT http://edx.sbs-app.com:18010/xblock/block-v1:SBS+AAA101+AAA2016+type@chapter+block@cfeb286b8df849e3b15c45a65486bad2 HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json

X-CSRFToken: EyO0srIydQiNVSshi2wp9LstnQVTFC4w

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016?show=block-v1%3ASBS%2BAAA101%2BAAA2016%2Btype%40chapter%2Bblock%40cfeb286b8df849e3b15c45a65486bad2

Content-Length: 269

Cookie: csrftoken=EyO0srIydQiNVSshi2wp9LstnQVTFC4w; edxloggedin=true; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"; sessionid=pubnfj0ry0g0lojt8phwnnyjd47sg4ba

Connection: keep-alive

{"children":["block-v1:SBS+AAA101+AAA2016+type@sequential+block@ad86694e2eb34892b494b548840e3891","block-v1:SBS+AAA101+AAA2016+type@sequential+block@1ba12da999ce4b078c5ded796221ec9f","block-v1:SBS+AAA101+AAA2016+type@sequential+block@5929df3933be4a9fbb1f151cc191e33a"]}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Tue, 28 Jun 2016 05:54:55 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 163

{

"data": null,

"id": "block-v1:SBS+AAA101+AAA2016+type@chapter+block@cfeb286b8df849e3b15c45a65486bad2",

"metadata": {

"display\_name": "Section2"

}

}

1. **Unit re-location (ย้ายตำแหน่ง unit)**

Action: PUT /xblock/block-v1:SBS+AAA101+AAA2016+type@sequential+block@5929df3933be4a9fbb1f151cc191e33a  
\* PUT ไปที่ block-id ของ sub-section ที่ย้ายไปอยู่

Data: JSON ของ ลำดับของ unit ทั้งหมดใน sub-section นั้น

{"children":["block-v1:SBS+AAA101+AAA2016+type@vertical+block@08cefb076e3d495b89c2a99813d01559","block-v1:SBS+AAA101+AAA2016+type@vertical+block@682f07486c634e5f80adfbe1dd1f252c"]}

Return: JSON object แสดงรายละเอียดของ sub-section  
**Request:**

PUT http://edx.sbs-app.com:18010/xblock/block-v1:SBS+AAA101+AAA2016+type@sequential+block@5929df3933be4a9fbb1f151cc191e33a HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json

X-CSRFToken: EyO0srIydQiNVSshi2wp9LstnQVTFC4w

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016?show=block-v1%3ASBS%2BAAA101%2BAAA2016%2Btype%40chapter%2Bblock%40cfeb286b8df849e3b15c45a65486bad2

Content-Length: 180

Cookie: csrftoken=EyO0srIydQiNVSshi2wp9LstnQVTFC4w; edxloggedin=true; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"; sessionid=pubnfj0ry0g0lojt8phwnnyjd47sg4ba

Connection: keep-alive

{"children":["block-v1:SBS+AAA101+AAA2016+type@vertical+block@08cefb076e3d495b89c2a99813d01559","block-v1:SBS+AAA101+AAA2016+type@vertical+block@682f07486c634e5f80adfbe1dd1f252c"]}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Tue, 28 Jun 2016 06:25:03 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 171

{

"data": null,

"id": "block-v1:SBS+AAA101+AAA2016+type@sequential+block@5929df3933be4a9fbb1f151cc191e33a",

"metadata": {

"display\_name": "Subsection2-2"

}

}

1. **Block re-location (ย้ายตำแหน่ง xblock ภายใน unit)**

Action: PUT /xblock/block-v1:SBS+AAA101+AAA2016+type@vertical+block@08cefb076e3d495b89c2a99813d01559  
\* PUT ไปที่ block-id ของ unit ที่มันอยู่

Data: JSON ของ ลำดับของ block ทั้งหมดใน unit นั้น

{"children":["block-v1:SBS+AAA101+AAA2016+type@problem+block@4381281409c246b1b43c798cdf9c8b74","block-v1:SBS+AAA101+AAA2016+type@html+block@f9444d7275d54c8a920fa96c22fe0dda","block-v1:SBS+AAA101+AAA2016+type@video+block@b799760d4022449b889ff7d0cd3f5428"]}

Return: JSON object แสดงรายละเอียดของ unit   
**Request:**

PUT http://edx.sbs-app.com:18010/xblock/block-v1:SBS+AAA101+AAA2016+type@vertical+block@08cefb076e3d495b89c2a99813d01559 HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json

X-CSRFToken: EyO0srIydQiNVSshi2wp9LstnQVTFC4w

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@08cefb076e3d495b89c2a99813d01559

Content-Length: 255

Cookie: csrftoken=EyO0srIydQiNVSshi2wp9LstnQVTFC4w; edxloggedin=true; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"; sessionid=pubnfj0ry0g0lojt8phwnnyjd47sg4ba

Connection: keep-alive

{"children":["block-v1:SBS+AAA101+AAA2016+type@problem+block@4381281409c246b1b43c798cdf9c8b74","block-v1:SBS+AAA101+AAA2016+type@html+block@f9444d7275d54c8a920fa96c22fe0dda","block-v1:SBS+AAA101+AAA2016+type@video+block@b799760d4022449b889ff7d0cd3f5428"]}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Tue, 28 Jun 2016 06:30:24 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 161

{

"data": null,

"id": "block-v1:SBS+AAA101+AAA2016+type@vertical+block@08cefb076e3d495b89c2a99813d01559",

"metadata": {

"display\_name": "Unit1"

}

}

1. **Reindex course**

Action: GET /course/course-v1:SBS+AAA101+AAA2016/search\_reindex  
\* course-id ขีดเส้นใต้

Return: JSON object บอกสถานะ

**Request:**

GET http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016/search\_reindex HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json; charset=utf-8

X-CSRFToken: EyO0srIydQiNVSshi2wp9LstnQVTFC4w

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016

Cookie: csrftoken=EyO0srIydQiNVSshi2wp9LstnQVTFC4w; edxloggedin=true; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"; sessionid=pubnfj0ry0g0lojt8phwnnyjd47sg4ba

Connection: keep-alive

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Tue, 28 Jun 2016 08:30:46 GMT

Content-Type: application/json; charset=utf-8

Connection: keep-alive

Vary: Accept-Encoding

Vary: Cookie, Accept-Language

X-Frame-Options: ALLOW

Content-Language: en

Set-Cookie: csrftoken=EyO0srIydQiNVSshi2wp9LstnQVTFC4w; expires=Tue, 27-Jun-2017 08:30:46 GMT; Max-Age=31449600; Path=/

Content-Length: 59

{"user\_message": "Course has been successfully reindexed."}

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. **Add new HTML Block in unit**

Action: POST /xblock/

Data: JSON ของ parent\_locator (เป็น id ของ Unit)/category=”html”

{

"category":"html",

"parent\_locator":"block-v1:SBS+XDBII+XDBII2016+type@vertical+block@e641853f9aaa484e9fbcf1e5b9f01b91"

}

Return: JSON object  
{

"locator": "block-v1:SBS+XDBII+XDBII2016+type@html+block@f66764a7a505462e83b44592f3d62f2d",

"courseKey": "course-v1:SBS+XDBII+XDBII2016"

}

**Request:**

POST /xblock/ HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json; charset=utf-8

X-CSRFToken: 48xVLYnJW203kHb5EmKsvoMRqPVKRMsY

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/container/block-v1:SBS+XDBII+XDBII2016+type@vertical+block@e641853f9aaa484e9fbcf1e5b9f01b91?action=new

Content-Length: 120

Cookie: csrftoken=48xVLYnJW203kHb5EmKsvoMRqPVKRMsY; edxloggedin=true; sessionid=4nwh725jun9m21xzbgbqplps5ymlgbgm; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

{"category":"html","parent\_locator":"block-v1:SBS+XDBII+XDBII2016+type@vertical+block@e641853f9aaa484e9fbcf1e5b9f01b91"}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Fri, 22 Jul 2016 06:07:22 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 145

{

"locator": "block-v1:SBS+XDBII+XDBII2016+type@html+block@f66764a7a505462e83b44592f3d62f2d",

"courseKey": "course-v1:SBS+XDBII+XDBII2016"

}

1. **Save/Update HTML content**

Action: POST /xblock/{block-id ของ html-block} เช่น  
POST /xblock/block-v1%3ASBS%2BXDBII%2BXDBII2016%2Btype%40html%2Bblock%40f66764a7a505462e83b44592f3d62f2d

Data: JSON ของ properties ต่างๆ ข้อความจะอยู่ใน data

{"id":"block-v1:SBS+XDBII+XDBII2016+type@html+block@f66764a7a505462e83b44592f3d62f2d",

"courseKey":"course-v1:SBS+XDBII+XDBII2016",

"category":"html",

"display\_name":"Text",

"data":"<p>aaaaa</p>\n<p></p>\n<p></p>\n<p>bbbbb</p>\n<p></p>\n<p></p>\n<p></p>\n<p>ccccc</p>",

"metadata":{},

"studio\_url":null,

"child\_info":null,"ancestor\_info":null,"edited\_on":null,"edited\_by":null,"published":null,"published\_on":null,"published\_by":null,"has\_changes":null,"visibility\_state":null,"released\_to\_students":null,"release\_date":null,"release\_date\_from":null,"currently\_visible\_to\_students":null,"due\_date":null,"format":null,"course\_graders":null,"graded":null,"start":null,"due":null,"has\_explicit\_staff\_lock":null,"ancestor\_has\_staff\_lock":null,"staff\_lock\_from":null,"staff\_only\_message":null,"has\_content\_group\_components":null,"actions":null,"is\_header\_visible":null,"explanatory\_message":null,"group\_access":null,"user\_partitions":null

}

Return: JSON object

{

"data": "<p>aaaaa</p>\n<p></p>\n<p></p>\n<p>bbbbb</p>\n<p></p>\n<p></p>\n<p></p>\n<p>ccccc</p>",

"id": "block-v1:SBS+XDBII+XDBII2016+type@html+block@f66764a7a505462e83b44592f3d62f2d",

"metadata": {}

}

**Request:**

POST /xblock/block-v1%3ASBS%2BXDBII%2BXDBII2016%2Btype%40html%2Bblock%40f66764a7a505462e83b44592f3d62f2d HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

…

Connection: keep-alive

{"id":"block-v1:SBS+XDBII+XDBII2016+type@html+block@f66764a7a505462e83b44592f3d62f2d","courseKey":"course-v1:SBS+XDBII+XDBII2016","category":"html","display\_name":"Text","data":"<p>aaaaa</p>\n<p></p>\n<p></p>\n<p>bbbbb</p>\n<p></p>\n<p></p>\n<p></p>\n<p>ccccc</p>","metadata":{},"studio\_url":null,"child\_info":null,"ancestor\_info":null,"edited\_on":null,"edited\_by":null,"published":null,"published\_on":null,"published\_by":null,"has\_changes":null,"visibility\_state":null,"released\_to\_students":null,"release\_date":null,"release\_date\_from":null,"currently\_visible\_to\_students":null,"due\_date":null,"format":null,"course\_graders":null,"graded":null,"start":null,"due":null,"has\_explicit\_staff\_lock":null,"ancestor\_has\_staff\_lock":null,"staff\_lock\_from":null,"staff\_only\_message":null,"has\_content\_group\_components":null,"actions":null,"is\_header\_visible":null,"explanatory\_message":null,"group\_access":null,"user\_partitions":null}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Fri, 22 Jul 2016 06:09:23 GMT

Content-Type: application/json

…

Content-Language: en

Content-Length: 210

{

"data": "<p>aaaaa</p>\n<p></p>\n<p></p>\n<p>bbbbb</p>\n<p></p>\n<p></p>\n<p></p>\n<p>ccccc</p>",

"id": "block-v1:SBS+XDBII+XDBII2016+type@html+block@f66764a7a505462e83b44592f3d62f2d",

"metadata": {}

}

1. **Add new VIDEO Block in unit**

Action: POST /xblock/

Data: JSON ของ parent\_locator (เป็น id ของ Unit)/category=”video”/type=”video”

{

"category":"video",

"type":"video",

"parent\_locator":"block-v1:SBS+XDBII+XDBII2016+type@vertical+block@e641853f9aaa484e9fbcf1e5b9f01b91"

}

Return: JSON object  
{

"locator": "block-v1:SBS+XDBII+XDBII2016+type@video+block@dfdc86b64a47417c9098fc4c6c86f03c",

"courseKey": "course-v1:SBS+XDBII+XDBII2016"

}

**Request:**

POST /xblock/ HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json; charset=utf-8

X-CSRFToken: 48xVLYnJW203kHb5EmKsvoMRqPVKRMsY

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/container/block-v1:SBS+XDBII+XDBII2016+type@vertical+block@e641853f9aaa484e9fbcf1e5b9f01b91?action=new

Content-Length: 136

Cookie: csrftoken=48xVLYnJW203kHb5EmKsvoMRqPVKRMsY; edxloggedin=true; sessionid=4nwh725jun9m21xzbgbqplps5ymlgbgm; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

{"category":"video","type":"video","parent\_locator":"block-v1:SBS+XDBII+XDBII2016+type@vertical+block@e641853f9aaa484e9fbcf1e5b9f01b91"}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Fri, 22 Jul 2016 06:16:37 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 146

{

"locator": "block-v1:SBS+XDBII+XDBII2016+type@video+block@dfdc86b64a47417c9098fc4c6c86f03c",

"courseKey": "course-v1:SBS+XDBII+XDBII2016"

}

1. **Save/Update VIDEO content**

Action: POST /xblock/{block-id ของ video-block} เช่น  
POST /xblock/block-v1%3ASBS%2BXDBII%2BXDBII2016%2Btype%40video%2Bblock%40dfdc86b64a47417c9098fc4c6c86f03c

Data: JSON ของ properties ต่างๆ ข้อความจะอยู่ใน data

{

"id":"block-v1:SBS+XDBII+XDBII2016+type@video+block@dfdc86b64a47417c9098fc4c6c86f03c",

"courseKey":"course-v1:SBS+XDBII+XDBII2016",

"category":"video",

"display\_name":"Video",

"metadata":{

"display\_name":"myVideo",

"sub":"",

"html5\_sources":[],

"youtube\_id\_1\_0":"WSinMOs5eGw"

},

"studio\_url":null,"child\_info":null,"ancestor\_info":null,"edited\_on":null,"edited\_by":null,"published":null,"published\_on":null,"published\_by":null,"has\_changes":null,"visibility\_state":null,"released\_to\_students":null,"release\_date":null,"release\_date\_from":null,"currently\_visible\_to\_students":null,"due\_date":null,"format":null,"course\_graders":null,"graded":null,"start":null,"due":null,"has\_explicit\_staff\_lock":null,"ancestor\_has\_staff\_lock":null,"staff\_lock\_from":null,"staff\_only\_message":null,"has\_content\_group\_components":null,"actions":null,"is\_header\_visible":null,"explanatory\_message":null,"group\_access":null,"user\_partitions":null

}

Return: JSON object

{

"data": null,

"id": "block-v1:SBS+XDBII+XDBII2016+type@video+block@dfdc86b64a47417c9098fc4c6c86f03c",

"metadata": {

"download\_video": false,

"youtube\_id\_1\_0": "WSinMOs5eGw",

"display\_name": "myVideo",

"sub": "",

"html5\_sources": []

}

}

**Request:**

POST /xblock/block-v1%3ASBS%2BXDBII%2BXDBII2016%2Btype%40video%2Bblock%40dfdc86b64a47417c9098fc4c6c86f03c HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

…

Connection: keep-alive

{"id":"block-v1:SBS+XDBII+XDBII2016+type@video+block@dfdc86b64a47417c9098fc4c6c86f03c","courseKey":"course-v1:SBS+XDBII+XDBII2016","category":"video","display\_name":"Video","metadata":{"display\_name":"myVideo","sub":"","html5\_sources":[],"youtube\_id\_1\_0":"WSinMOs5eGw"},"studio\_url":null,"child\_info":null,"ancestor\_info":null,"edited\_on":null,"edited\_by":null,"published":null,"published\_on":null,"published\_by":null,"has\_changes":null,"visibility\_state":null,"released\_to\_students":null,"release\_date":null,"release\_date\_from":null,"currently\_visible\_to\_students":null,"due\_date":null,"format":null,"course\_graders":null,"graded":null,"start":null,"due":null,"has\_explicit\_staff\_lock":null,"ancestor\_has\_staff\_lock":null,"staff\_lock\_from":null,"staff\_only\_message":null,"has\_content\_group\_components":null,"actions":null,"is\_header\_visible":null,"explanatory\_message":null,"group\_access":null,"user\_partitions":null}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Fri, 22 Jul 2016 06:19:47 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 271

{

"data": null,

"id": "block-v1:SBS+XDBII+XDBII2016+type@video+block@dfdc86b64a47417c9098fc4c6c86f03c",

"metadata": {

"download\_video": false,

"youtube\_id\_1\_0": "WSinMOs5eGw",

"display\_name": "myVideo",

"sub": "",

"html5\_sources": []

}

}

**\*\*\*\*\*\*\*\*\*\*\*\* 28-07-2559 \*\*\*\*\*\*\*\*\*\*\*\*\***

1. **Get Block preview**

Action: GET /xblock/{block-id}/\_container\_child\_preview?\_={randomnumber}  
เช่น  
GET /xblock/block-v1:SBS+AAA101+AAA2016+type@html+block@b1de002562184f8b970979d7c1fc8d3d/reorderable\_container\_child\_preview?\_=1469684822676

Return: JSON object ค่าที่ต้องการอยู่ใน html

**Request:**

GET /xblock/block-v1:SBS+AAA101+AAA2016+type@html+block@b1de002562184f8b970979d7c1fc8d3d/reorderable\_container\_child\_preview?\_=1469684822676 HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

X-CSRFToken: 6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b?action=new

Cookie: csrftoken=6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6; edxloggedin=true; sessionid=znp5ll8sj1e16yxluuurpr8slyun6qw1; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

…

Content-Length: 6864

{

"html": "\n\n\n\n\n\n<script type=\"text/template\" id=\"xblock-validation-messages-tpl\">\n …. \"xblock-json-init-args\">\n {\"xmodule-type\": \"HTMLModule\"}\n </script>\n <p>ccc</p>\n</div>\n\n </article>\n\n </section>\n </li>\n",

"resources": []

}

* 1. **Get UNIT preview**

Action: GET /xblock/{block-id}/container\_preview?\_={randomnumber}  
เช่น  
GET /xblock/block-v1:SBS+AAA101+AAA2016+type@vertical+block@4ad6d1e130df4716bc64d72a19db8d66/container\_preview?\_=1470385492513

Return: JSON object ค่าที่ต้องการอยู่ใน html

โดยหา block-id ของ block ใน unit ที่ตามหลัง wording $('div.xblock-validation-messages[data-locator=\"

**Request:**

GET /xblock/block-v1:SBS+AAA101+AAA2016+type@vertical+block@4ad6d1e130df4716bc64d72a19db8d66/container\_preview?\_=1470385492513 HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

X-CSRFToken: vmwEWC31CXxIzBLVV6wJNVERqh2S3pi0

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@4ad6d1e130df4716bc64d72a19db8d66

Cookie: csrftoken=vmwEWC31CXxIzBLVV6wJNVERqh2S3pi0; edxloggedin=true; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"; sessionid=3m2jcq067384n9yzhgodjopo2eivjfs4

Connection: keep-alive

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Fri, 05 Aug 2016 08:24:53 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Set-Cookie: csrftoken=vmwEWC31CXxIzBLVV6wJNVERqh2S3pi0; expires=Fri, 04-Aug-2017 08:24:53 GMT; Max-Age=31449600; Path=/

Content-Length: 11721

{

"html": "\n\n\n\n\n\n<script type=\"text/template\" id=\"xblock-validation-messages-tpl\">\n <%\nvar summaryMessage = validation.get(\"summary\");\nvar aggregateMessageType = summaryMessage.type;\nvar aggregateValidationClass = aggregateMessageType === \"error\"? \"has-errors\" : \"has-warnings\";\n%>\n <div class=\"xblock-message validation <%= aggregateValidationClass %> <%= additionalClasses %>\">\n <p class=\"<%= aggregateMessageType %>\"><i class=\"icon fa <%= getIcon(aggregateMessageType) %>\"></i>\n <%- summaryMessage.text %>\n <% if (summaryMessage.action\_class) { %>\n <a href=\"#\" class=\"button action-button <%- summaryMessage.action\_class %>\">\n <span class=\"action-button-text\"><%- summaryMessage.action\_label %></span>\n </a>\n <% } else if (summaryMessage.action\_runtime\_event) {%>\n <a href=\"#\" class=\"button action-button notification-action-button\" data-notification-action=\"<%- summaryMessage.action\_runtime\_event %>\">\n <span class=\"action-button-text\"><%- summaryMessage.action\_label %></span>\n </a>\n <% } %>\n </p>\n <% var detailedMessages = validation.get(\"messages\"); %>\n <% if (detailedMessages.length > 0) { %>\n <ul class=\"xblock-message-list\">\n <% for (var i = 0; i < detailedMessages.length; i++) { %>\n <%\n var message = detailedMessages[i];\n var messageType = message.type\n var messageTypeDisplayName = getDisplayName(messageType)\n %>\n <li class=\"xblock-message-item <%= messageType %>\">\n <span class=\"message-text\">\n <% if (messageTypeDisplayName) { %>\n <span class=\"sr\"><%- messageTypeDisplayName %>:</span>\n <% } %>\n <%- message.text %>\n\n <% if (message.action\_class) { %>\n <a href=\"#\" class=\"button action-button <%- message.action\_class %>\">\n <span class=\"action-button-text\"><%- message.action\_label %></span>\n </a>\n <% } else if (message.action\_runtime\_event) {%>\n <a href=\"#\" class=\"button action-button notification-action-button\" data-notification-action=\"<%- message.action\_runtime\_event %>\">\n <span class=\"action-button-text\"><%- message.action\_label %></span>\n </a>\n <% } %>\n </span>\n </li>\n <% } %>\n </ul>\n <% } %>\n </div>\n\n</script>\n\n\n<script>\n require([\"jquery\", \"js/factories/xblock\_validation\"], function($, XBlockValidationFactory) {\n XBlockValidationFactory(\n {\"messages\": [], \"xblock\_id\": \"block-v1:SBS+AAA101+AAA2016+type@vertical+block@4ad6d1e130df4716bc64d72a19db8d66\", \"empty\": true},\n $.parseJSON(\"True\".toLowerCase()), // xblock\_url will be None or a string\n $.parseJSON(\"True\".toLowerCase()), // is\_root will be None or a boolean\n $('div.xblock-validation-messages[data-locator=\"block-v1:SBS+AAA101+AAA2016+type@vertical+block@4ad6d1e130df4716bc64d72a19db8d66\"]')\n );\n });\n</script>\n\n\n<header class=\"xblock-header xblock-header-vertical\">\n <div class=\"xblock-header-primary\n \">\n <div class=\"header-details\">\n <span class=\"xblock-display-name\">UnitA</span>\n </div>\n <div class=\"header-actions\">\n <ul class=\"actions-list\">\n </ul>\n </div>\n </div>\n </header>\n\n <div class=\"wrapper-xblock-message xblock-validation-messages\" data-locator=\"block-v1:SBS+AAA101+AAA2016+type@vertical+block@4ad6d1e130df4716bc64d72a19db8d66\"/>\n\n <article class=\"xblock-render\">\n <div class=\"xblock xblock-author\_view xblock-author\_view-vertical\" data-usage-id=\"block-v1:SBS+AAA101+AAA2016+type@vertical+block@4ad6d1e130df4716bc64d72a19db8d66\" data-request-token=\"15dcf2ec5ae611e6a64e080027ff22e9\" data-block-type=\"vertical\">\n <ol class=\"reorderable-container\">\n \n\n\n\n\n\n<script type=\"text/template\" id=\"xblock-validation-messages-tpl\">\n <%\nvar summaryMessage = validation.get(\"summary\");\nvar aggregateMessageType = summaryMessage.type;\nvar aggregateValidationClass = aggregateMessageType === \"error\"? \"has-errors\" : \"has-warnings\";\n%>\n <div class=\"xblock-message validation <%= aggregateValidationClass %> <%= additionalClasses %>\">\n <p class=\"<%= aggregateMessageType %>\"><i class=\"icon fa <%= getIcon(aggregateMessageType) %>\"></i>\n <%- summaryMessage.text %>\n <% if (summaryMessage.action\_class) { %>\n <a href=\"#\" class=\"button action-button <%- summaryMessage.action\_class %>\">\n <span class=\"action-button-text\"><%- summaryMessage.action\_label %></span>\n </a>\n <% } else if (summaryMessage.action\_runtime\_event) {%>\n <a href=\"#\" class=\"button action-button notification-action-button\" data-notification-action=\"<%- summaryMessage.action\_runtime\_event %>\">\n <span class=\"action-button-text\"><%- summaryMessage.action\_label %></span>\n </a>\n <% } %>\n </p>\n <% var detailedMessages = validation.get(\"messages\"); %>\n <% if (detailedMessages.length > 0) { %>\n <ul class=\"xblock-message-list\">\n <% for (var i = 0; i < detailedMessages.length; i++) { %>\n <%\n var message = detailedMessages[i];\n var messageType = message.type\n var messageTypeDisplayName = getDisplayName(messageType)\n %>\n <li class=\"xblock-message-item <%= messageType %>\">\n <span class=\"message-text\">\n <% if (messageTypeDisplayName) { %>\n <span class=\"sr\"><%- messageTypeDisplayName %>:</span>\n <% } %>\n <%- message.text %>\n\n <% if (message.action\_class) { %>\n <a href=\"#\" class=\"button action-button <%- message.action\_class %>\">\n <span class=\"action-button-text\"><%- message.action\_label %></span>\n </a>\n <% } else if (message.action\_runtime\_event) {%>\n <a href=\"#\" class=\"button action-button notification-action-button\" data-notification-action=\"<%- message.action\_runtime\_event %>\">\n <span class=\"action-button-text\"><%- message.action\_label %></span>\n </a>\n <% } %>\n </span>\n </li>\n <% } %>\n </ul>\n <% } %>\n </div>\n\n</script>\n\n\n<script>\n require([\"jquery\", \"js/factories/xblock\_validation\"], function($, XBlockValidationFactory) {\n XBlockValidationFactory(\n {\"messages\": [], \"xblock\_id\": \"block-v1:SBS+AAA101+AAA2016+type@problem+block@e60ed66e59234fbbae771456f4cea20b\", \"empty\": true},\n $.parseJSON(\"False\".toLowerCase()), // xblock\_url will be None or a string\n $.parseJSON(\"False\".toLowerCase()), // is\_root will be None or a boolean\n $('div.xblock-validation-messages[data-locator=\"block-v1:SBS+AAA101+AAA2016+type@problem+block@e60ed66e59234fbbae771456f4cea20b\"]')\n );\n });\n</script>\n\n <li class=\"studio-xblock-wrapper is-draggable\" data-locator=\"block-v1:SBS+AAA101+AAA2016+type@problem+block@e60ed66e59234fbbae771456f4cea20b\" data-course-key=\"course-v1:SBS+AAA101+AAA2016\">\n\n <section class=\"wrapper-xblock level-element \n \">\n\n<header class=\"xblock-header xblock-header-problem\">\n <div class=\"xblock-header-primary\n \">\n <div class=\"header-details\">\n <span class=\"xblock-display-name\">Multiple Choice</span>\n </div>\n <div class=\"header-actions\">\n <ul class=\"actions-list\">\n <li class=\"action-item action-edit\">\n <a href=\"#\" class=\"edit-button action-button\">\n <i class=\"icon fa fa-pencil\"></i>\n <span class=\"action-button-text\">Edit</span>\n </a>\n </li>\n <li class=\"action-item action-visibility\">\n <a href=\"#\" data-tooltip=\"Visibility Settings\" class=\"visibility-button action-button\">\n <i class=\"icon fa fa-eye\" aria-hidden=\"true\"></i>\n <span class=\"sr\">Visibility</span>\n </a>\n </li>\n <li class=\"action-item action-duplicate\">\n <a href=\"#\" data-tooltip=\"Duplicate\" class=\"duplicate-button action-button\">\n <i class=\"icon fa fa-copy\"></i>\n <span class=\"sr\">Duplicate</span>\n </a>\n </li>\n <!-- If we can add, we can delete. -->\n <li class=\"action-item action-delete\">\n <a href=\"#\" data-tooltip=\"Delete\" class=\"delete-button action-button\">\n <i class=\"icon fa fa-trash-o\"></i>\n <span class=\"sr\">Delete</span>\n </a>\n </li>\n <li class=\"action-item action-drag\">\n <span data-tooltip=\"Drag to reorder\" class=\"drag-handle action\"></span>\n </li>\n </ul>\n </div>\n </div>\n <div class=\"wrapper-xblock-message xblock-validation-messages\" data-locator=\"block-v1:SBS+AAA101+AAA2016+type@problem+block@e60ed66e59234fbbae771456f4cea20b\"/>\n </header>\n\n\n <article class=\"xblock-render\">\n <div class=\"xblock xblock-student\_view xblock-student\_view-problem xmodule\_display xmodule\_CapaModule\" data-runtime-class=\"PreviewRuntime\" data-init=\"XBlockToXModuleShim\" data-request-token=\"15dcf2ec5ae611e6a64e080027ff22e9\" data-runtime-version=\"1\" data-usage-id=\"block-v1:SBS+AAA101+AAA2016+type@problem+block@e60ed66e59234fbbae771456f4cea20b\" data-type=\"Problem\" data-block-type=\"problem\">\n <script type=\"json/xblock-args\" class=\"xblock-json-init-args\">\n {\"xmodule-type\": \"Problem\"}\n </script>\n <div id=\"problem\_e60ed66e59234fbbae771456f4cea20b\" class=\"problems-wrapper\" data-problem-id=\"block-v1:SBS+AAA101+AAA2016+type@problem+block@e60ed66e59234fbbae771456f4cea20b\" data-url=\"/preview/xblock/block-v1:SBS+AAA101+AAA2016+type@problem+block@e60ed66e59234fbbae771456f4cea20b/handler/xmodule\_handler\" data-progress\_status=\"none\" data-progress\_detail=\"0/1\"></div>\n\n</div>\n\n </article>\n\n </section>\n </li>\n\n </ol>\n<div class=\"add-xblock-component new-component-item adding\"></div>\n\n</div>\n\n </article>\n\n",

"resources": []

}

* 1. **Get Unit Structure**

Action: GET /xblock/container/{unit-id}  
เช่น  
GET /xblock/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b

Return: JSON object ค่าที่ต้องการอยู่ใน "children":

**Request:**

GET /xblock/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

X-CSRFToken: 6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b?action=new

Cookie: csrftoken=6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6; edxloggedin=true; sessionid=znp5ll8sj1e16yxluuurpr8slyun6qw1; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Thu, 28 Jul 2016 05:47:01 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 7535

{

"has\_explicit\_staff\_lock": false,

"graded": false,

"has\_content\_group\_components": false,

"explanatory\_message": null,

"actions": {

"draggable": true,

"childAddable": true,

"deletable": true

},

"ancestor\_info": {

"ancestors": [

{

"has\_explicit\_staff\_lock": false,

"graded": false,

"explanatory\_message": null,

"actions": {

"draggable": true,

"childAddable": true,

"deletable": true

},

"id": "block-v1:SBS+AAA101+AAA2016+type@sequential+block@1ac4dd6b3e80446c85e733febe1f206d",

"category": "sequential",

"published\_on": "Jul 27, 2016 at 07:47 UTC",

"display\_name": "Subsection3-1",

"due": null,

"studio\_url": "/course/course-v1:SBS+AAA101+AAA2016?show=block-v1%3ASBS%2BAAA101%2BAAA2016%2Btype%40sequential%2Bblock%401ac4dd6b3e80446c85e733febe1f206d",

"start": "2030-01-01T00:00:00Z",

"edited\_on": "Jul 28, 2016 at 05:47 UTC",

"has\_changes": null,

"ancestor\_has\_staff\_lock": false,

"course\_graders": [

"Homework",

"Lab",

"Midterm Exam",

"Final Exam"

],

"due\_date": "",

"format": null,

"visibility\_state": "needs\_attention",

"released\_to\_students": false,

"group\_access": {},

"release\_date": null,

"user\_partitions": [],

"child\_info": {

"category": "vertical",

"display\_name": "Unit",

"children": [

{

"has\_explicit\_staff\_lock": false,

"graded": false,

"explanatory\_message": null,

"actions": {

"draggable": true,

"childAddable": true,

"deletable": true

},

"id": "block-v1:SBS+AAA101+AAA2016+type@vertical+block@5eceb15548f841749223aeb6caa72c3f",

"category": "vertical",

"published\_on": null,

"display\_name": "Unit",

"due": null,

"studio\_url": "/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@5eceb15548f841749223aeb6caa72c3f",

"start": "2030-01-01T00:00:00Z",

"edited\_on": "Jul 27, 2016 at 07:51 UTC",

"has\_changes": true,

"ancestor\_has\_staff\_lock": false,

"course\_graders": [

"Homework",

"Lab",

"Midterm Exam",

"Final Exam"

],

"due\_date": "",

"format": null,

"visibility\_state": "needs\_attention",

"released\_to\_students": false,

"group\_access": {},

"release\_date": null,

"user\_partitions": [],

"published": false

},

{

"has\_explicit\_staff\_lock": false,

"graded": false,

"explanatory\_message": null,

"actions": {

"draggable": true,

"childAddable": true,

"deletable": true

},

"id": "block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b",

"category": "vertical",

"published\_on": null,

"display\_name": "Unitx",

"due": null,

"studio\_url": "/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b",

"start": "2030-01-01T00:00:00Z",

"edited\_on": "Jul 28, 2016 at 05:47 UTC",

"has\_changes": true,

"ancestor\_has\_staff\_lock": false,

"course\_graders": [

"Homework",

"Lab",

"Midterm Exam",

"Final Exam"

],

"due\_date": "",

"format": null,

"visibility\_state": "needs\_attention",

"released\_to\_students": false,

"group\_access": {},

"release\_date": null,

"user\_partitions": [],

"published": false

}

]

},

"published": true

},

{

"has\_explicit\_staff\_lock": false,

"graded": false,

"explanatory\_message": null,

"actions": {

"draggable": true,

"childAddable": true,

"deletable": true

},

"id": "block-v1:SBS+AAA101+AAA2016+type@chapter+block@2d975966352849cfb93b26e15b94c82a",

"category": "chapter",

"published\_on": "Jul 27, 2016 at 07:47 UTC",

"display\_name": "Section3",

"due": null,

"studio\_url": "/course/course-v1:SBS+AAA101+AAA2016?show=block-v1%3ASBS%2BAAA101%2BAAA2016%2Btype%40chapter%2Bblock%402d975966352849cfb93b26e15b94c82a",

"start": "2030-01-01T00:00:00Z",

"edited\_on": "Jul 28, 2016 at 05:47 UTC",

"has\_changes": null,

"ancestor\_has\_staff\_lock": false,

"course\_graders": [

"Homework",

"Lab",

"Midterm Exam",

"Final Exam"

],

"due\_date": "",

"format": null,

"visibility\_state": "unscheduled",

"released\_to\_students": false,

"group\_access": {},

"release\_date": null,

"user\_partitions": [],

"published": true

},

{

"has\_explicit\_staff\_lock": false,

"graded": false,

"explanatory\_message": null,

"actions": {

"draggable": true,

"childAddable": true,

"deletable": true

},

"id": "block-v1:SBS+AAA101+AAA2016+type@course+block@course",

"category": "course",

"published\_on": "Jul 27, 2016 at 07:49 UTC",

"display\_name": "AAA Course xxx",

"due": null,

"studio\_url": "/course/course-v1:SBS+AAA101+AAA2016",

"start": "2030-01-01T00:00:00Z",

"edited\_on": "Jul 28, 2016 at 05:47 UTC",

"has\_changes": null,

"ancestor\_has\_staff\_lock": false,

"course\_graders": [

"Homework",

"Lab",

"Midterm Exam",

"Final Exam"

],

"due\_date": "",

"format": null,

"visibility\_state": null,

"released\_to\_students": false,

"group\_access": {},

"release\_date": null,

"user\_partitions": [],

"published": true

}

]

},

"staff\_lock\_from": null,

"id": "block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b",

"currently\_visible\_to\_students": false,

"category": "vertical",

"published\_on": null,

"display\_name": "Unitx",

"due": null,

"studio\_url": "/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b",

"start": "2030-01-01T00:00:00Z",

"edited\_on": "Jul 28, 2016 at 05:47 UTC",

"has\_changes": true,

"ancestor\_has\_staff\_lock": false,

"course\_graders": [

"Homework",

"Lab",

"Midterm Exam",

"Final Exam"

],

"metadata": {

"display\_name": "Unitx"

},

"due\_date": "",

"edited\_by": "staff",

"format": null,

"visibility\_state": "needs\_attention",

"released\_to\_students": false,

"data": "",

"group\_access": {},

"release\_date": null,

"published\_by": null,

"user\_partitions": [],

"published": false

}

1. **Relocate blocks in unit**

Action: PUT /xblock/{unit-id}/  
เช่น  
PUT /xblock/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b

Parameter: Block-id ตามลำดับใหม่

{

"children":

["block-v1:SBS+AAA101+AAA2016+type@html+block@da1b8d3d24394bacbe6298349dca9bfd",

"block-v1:SBS+AAA101+AAA2016+type@html+block@b1de002562184f8b970979d7c1fc8d3d",

"block-v1:SBS+AAA101+AAA2016+type@html+block@050d757464d34d57b20201f512a1d545"

]

}

Return: JSON object ผลลัพธ์

**Request:**

PUT /xblock/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b HTTP/1.1

Host: edx.sbs-app.com:18010

…

Connection: keep-alive

{"children":["block-v1:SBS+AAA101+AAA2016+type@html+block@da1b8d3d24394bacbe6298349dca9bfd","block-v1:SBS+AAA101+AAA2016+type@html+block@b1de002562184f8b970979d7c1fc8d3d","block-v1:SBS+AAA101+AAA2016+type@html+block@050d757464d34d57b20201f512a1d545"]}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Thu, 28 Jul 2016 05:54:11 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 161

{

"data": null,

"id": "block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b",

"metadata": {

"display\_name": "Unitx"

}

}

1. **Delete blocks in unit**

Action: DELETE /xblock/{block-id}/  
เช่น  
DELETE /xblock/block-v1:SBS+AAA101+AAA2016+type@html+block@b1de002562184f8b970979d7c1fc8d3d

Return: none

**Request:**

DELETE /xblock/block-v1:SBS+AAA101+AAA2016+type@html+block@b1de002562184f8b970979d7c1fc8d3d HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

X-CSRFToken: 6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b?action=new

Cookie: csrftoken=6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6; edxloggedin=true; sessionid=znp5ll8sj1e16yxluuurpr8slyun6qw1; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

**Response:**

HTTP/1.1 204 NO CONTENT

Server: nginx/1.1.19

Date: Wed, 03 Aug 2016 10:37:01 GMT

Content-Type: application/json

Content-Length: 0

Connection: keep-alive

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

1. **Delete Unit / SubSection / Section (ส่ง id ของอันที่จะลบไป)**

Action: DELETE /xblock/{unit-id}/  
เช่น  
DELETE /xblock/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b

หรือ

DELETE /xblock/block-v1:SBS+AAA101+AAA2016+type@sequential+block@1ac4dd6b3e80446c85e733febe1f206d

หรือ

DELETE /xblock/block-v1:SBS+AAA101+AAA2016+type@chapter+block@2d975966352849cfb93b26e15b94c82a

Return: none

**Request:**

DELETE /xblock/block-v1:SBS+AAA101+AAA2016+type@vertical+block@a307bc072cda4cda85530faaae86b40b HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

X-CSRFToken: 6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course/course-v1:SBS+AAA101+AAA2016?show=block-v1%3ASBS%2BAAA101%2BAAA2016%2Btype%40sequential%2Bblock%401ac4dd6b3e80446c85e733febe1f206d

Cookie: csrftoken=6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6; edxloggedin=true; sessionid=znp5ll8sj1e16yxluuurpr8slyun6qw1; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

**Response:**

HTTP/1.1 204 NO CONTENT

Server: nginx/1.1.19

Date: Wed, 03 Aug 2016 10:37:50 GMT

Content-Type: application/json

Content-Length: 0

Connection: keep-alive

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

1. **Add Problem**

Action: POST /xblock/

Parameter: boilerplate ชื่อเทมเพลท = multiplechoice.yaml , category = problem,   
parent\_locator = id ของ unit เช่น

{"boilerplate":"multiplechoice.yaml","category":"problem","parent\_locator":"block-v1:SBS+AAA101+AAA2016+type@vertical+block@2715e09acc1f4aa88d5956fa1393c9d6"}

Return: JSON ของ block-id เช่น

{

"locator": "block-v1:SBS+AAA101+AAA2016+type@problem+block@e473ec63545240b6ab9b99a585b348ae",

"courseKey": "course-v1:SBS+AAA101+AAA2016"

}

**Request:**

POST /xblock/ HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json; charset=utf-8

X-CSRFToken: 6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@2715e09acc1f4aa88d5956fa1393c9d6?action=new

Content-Length: 158

Cookie: csrftoken=6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6; edxloggedin=true; sessionid=znp5ll8sj1e16yxluuurpr8slyun6qw1; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

{"boilerplate":"multiplechoice.yaml","category":"problem","parent\_locator":"block-v1:SBS+AAA101+AAA2016+type@vertical+block@2715e09acc1f4aa88d5956fa1393c9d6"}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Thu, 04 Aug 2016 05:19:01 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 146

{

"locator": "block-v1:SBS+AAA101+AAA2016+type@problem+block@e473ec63545240b6ab9b99a585b348ae",

"courseKey": "course-v1:SBS+AAA101+AAA2016"

}

1. **Save/Update Problem**

Action: POST /xblock/{encodeURIComponent(block-id)}  
เช่น POST /xblock/block-v1%3ASBS%2BAAA101%2BAAA2016%2Btype%40problem%2Bblock%40e473ec63545240b6ab9b99a585b348ae

Header: ต้องระบุ header  
X-HTTP-Method-Override: PUT

Parameter: JSON รายละเอียดของคำถามคำตอบ

{

"id":"block-v1:SBS+AAA101+AAA2016+type@problem+block@e473ec63545240b6ab9b99a585b348ae",

"courseKey":"course-v1:SBS+AAA101+AAA2016",

"category":"problem",

"display\_name":"Multiple Choice",

"data":"<problem>\n<p>Multiple choice problems allow learners to select only one option. Learners can see all the options along with the problem text.</p>\n\n<p>When you add the problem, be sure to select Settings to specify a Display Name and other values that apply.</p>\n\n<p>You can use the following example problem as a model.</p>\n\n<p>Which of the following countries has the largest population?</p>\n<multiplechoiceresponse>\n <choicegroup label=\"Which of the following countries has the largest population?\" type=\"MultipleChoice\">\n <choice correct=\"false\">Brazil <choicehint>timely feedback -- explain why an almost correct answer is wrong</choicehint></choice>\n <choice correct=\"true\">Germany</choice>\n <choice correct=\"false\">Indonesia</choice>\n <choice correct=\"false\">Russia</choice>\n </choicegroup>\n</multiplechoiceresponse>\n\n<solution>\n<div class=\"detailed-solution\">\n<p>Explanation</p>\n\n<p>According to September 2014 estimates:</p>\n<p>The population of Indonesia is approximately 250 million.</p>\n<p>The population of Brazil is approximately 200 million.</p>\n<p>The population of Russia is approximately 146 million.</p>\n<p>The population of Germany is approximately 81 million.</p>\n\n</div>\n</solution>\n\n</problem>",

"metadata":{"markdown":"Multiple choice problems allow learners to select only one option. Learners can see all the options along with the problem text.\n\nWhen you add the problem, be sure to select Settings to specify a Display Name and other values that apply.\n\nYou can use the following example problem as a model.\n\n>>Which of the following countries has the largest population?<<\n( ) Brazil {{ timely feedback -- explain why an almost correct answer is wrong }}\n(x) Germany\n( ) Indonesia\n( ) Russia\n\n[explanation]\nAccording to September 2014 estimates:\nThe population of Indonesia is approximately 250 million.\nThe population of Brazil is approximately 200 million.\nThe population of Russia is approximately 146 million.\nThe population of Germany is approximately 81 million.\n[explanation]\n"},

"studio\_url":null,"child\_info":null,"ancestor\_info":null,"edited\_on":null,"edited\_by":null,"published":null,"published\_on":null,"published\_by":null,"has\_changes":null,"visibility\_state":null,"released\_to\_students":null,"release\_date":null,"release\_date\_from":null,"currently\_visible\_to\_students":null,"due\_date":null,"format":null,"course\_graders":null,"graded":null,"start":null,"due":null,"has\_explicit\_staff\_lock":null,"ancestor\_has\_staff\_lock":null,"staff\_lock\_from":null,"staff\_only\_message":null,"has\_content\_group\_components":null,"actions":null,"is\_header\_visible":null,"explanatory\_message":null,"group\_access":null,"user\_partitions":null

}

Return: JSON ของรายละเอียด

**Request:**

POST /xblock/block-v1%3ASBS%2BAAA101%2BAAA2016%2Btype%40problem%2Bblock%40e473ec63545240b6ab9b99a585b348ae HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json

X-CSRFToken: 6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6

X-HTTP-Method-Override: PUT

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/container/block-v1:SBS+AAA101+AAA2016+type@vertical+block@2715e09acc1f4aa88d5956fa1393c9d6?action=new

Content-Length: 2933

Cookie: csrftoken=6VHJDIJs18MiKTJkiTBBwJ1VULOOnYj6; edxloggedin=true; sessionid=znp5ll8sj1e16yxluuurpr8slyun6qw1; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"

Connection: keep-alive

{"id":"block-v1:SBS+AAA101+AAA2016+type@problem+block@e473ec63545240b6ab9b99a585b348ae","courseKey":"course-v1:SBS+AAA101+AAA2016","category":"problem","display\_name":"Multiple Choice","data":"<problem>\n<p>Multiple choice problems allow learners to select only one option. Learners can see all the options along with the problem text.</p>\n\n<p>When you add the problem, be sure to select Settings to specify a Display Name and other values that apply.</p>\n\n<p>You can use the following example problem as a model.</p>\n\n<p>Which of the following countries has the largest population?</p>\n<multiplechoiceresponse>\n <choicegroup label=\"Which of the following countries has the largest population?\" type=\"MultipleChoice\">\n <choice correct=\"false\">Brazil <choicehint>timely feedback -- explain why an almost correct answer is wrong</choicehint></choice>\n <choice correct=\"true\">Germany</choice>\n <choice correct=\"false\">Indonesia</choice>\n <choice correct=\"false\">Russia</choice>\n </choicegroup>\n</multiplechoiceresponse>\n\n<solution>\n<div class=\"detailed-solution\">\n<p>Explanation</p>\n\n<p>According to September 2014 estimates:</p>\n<p>The population of Indonesia is approximately 250 million.</p>\n<p>The population of Brazil is approximately 200 million.</p>\n<p>The population of Russia is approximately 146 million.</p>\n<p>The population of Germany is approximately 81 million.</p>\n\n</div>\n</solution>\n\n</problem>","metadata":{"markdown":"Multiple choice problems allow learners to select only one option. Learners can see all the options along with the problem text.\n\nWhen you add the problem, be sure to select Settings to specify a Display Name and other values that apply.\n\nYou can use the following example problem as a model.\n\n>>Which of the following countries has the largest population?<<\n( ) Brazil {{ timely feedback -- explain why an almost correct answer is wrong }}\n(x) Germany\n( ) Indonesia\n( ) Russia\n\n[explanation]\nAccording to September 2014 estimates:\nThe population of Indonesia is approximately 250 million.\nThe population of Brazil is approximately 200 million.\nThe population of Russia is approximately 146 million.\nThe population of Germany is approximately 81 million.\n[explanation]\n"},"studio\_url":null,"child\_info":null,"ancestor\_info":null,"edited\_on":null,"edited\_by":null,"published":null,"published\_on":null,"published\_by":null,"has\_changes":null,"visibility\_state":null,"released\_to\_students":null,"release\_date":null,"release\_date\_from":null,"currently\_visible\_to\_students":null,"due\_date":null,"format":null,"course\_graders":null,"graded":null,"start":null,"due":null,"has\_explicit\_staff\_lock":null,"ancestor\_has\_staff\_lock":null,"staff\_lock\_from":null,"staff\_only\_message":null,"has\_content\_group\_components":null,"actions":null,"is\_header\_visible":null,"explanatory\_message":null,"group\_access":null,"user\_partitions":null}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Thu, 04 Aug 2016 05:22:16 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 2252

{

"data": "<problem>\n<p>Multiple choice problems allow learners to select only one option. Learners can see all the options along with the problem text.</p>\n\n<p>When you add the problem, be sure to select Settings to specify a Display Name and other values that apply.</p>\n\n<p>You can use the following example problem as a model.</p>\n\n<p>Which of the following countries has the largest population?</p>\n<multiplechoiceresponse>\n <choicegroup label=\"Which of the following countries has the largest population?\" type=\"MultipleChoice\">\n <choice correct=\"false\">Brazil <choicehint>timely feedback -- explain why an almost correct answer is wrong</choicehint></choice>\n <choice correct=\"true\">Germany</choice>\n <choice correct=\"false\">Indonesia</choice>\n <choice correct=\"false\">Russia</choice>\n </choicegroup>\n</multiplechoiceresponse>\n\n<solution>\n<div class=\"detailed-solution\">\n<p>Explanation</p>\n\n<p>According to September 2014 estimates:</p>\n<p>The population of Indonesia is approximately 250 million.</p>\n<p>The population of Brazil is approximately 200 million.</p>\n<p>The population of Russia is approximately 146 million.</p>\n<p>The population of Germany is approximately 81 million.</p>\n\n</div>\n</solution>\n\n</problem>",

"id": "block-v1:SBS+AAA101+AAA2016+type@problem+block@e473ec63545240b6ab9b99a585b348ae",

"metadata": {

"markdown": "Multiple choice problems allow learners to select only one option. Learners can see all the options along with the problem text.\n\nWhen you add the problem, be sure to select Settings to specify a Display Name and other values that apply.\n\nYou can use the following example problem as a model.\n\n>>Which of the following countries has the largest population?<<\n( ) Brazil {{ timely feedback -- explain why an almost correct answer is wrong }}\n(x) Germany\n( ) Indonesia\n( ) Russia\n\n[explanation]\nAccording to September 2014 estimates:\nThe population of Indonesia is approximately 250 million.\nThe population of Brazil is approximately 200 million.\nThe population of Russia is approximately 146 million.\nThe population of Germany is approximately 81 million.\n[explanation]\n",

"display\_name": "Multiple Choice"

}

}

1. **Rerun Course**

Action: POST /course/

Parameter:

source\_course\_key = course key ของคอร์สต้นแบบ

org = หน่วยงาน (ใหม่/หรือคงเดิม)

number = รหัสวิชา(ใหม่/หรือคงเดิม)

display\_name = ชื่อวิชา (ใหม่/หรือคงเดิม)

run = course run (ใหม่/หรือคงเดิม)

เช่น

{

"source\_course\_key":"course-v1:SBS+DB103+2016\_T1",

"org":"SBS",

"number":"DB103",

"display\_name":"Advance Database Rerun",

"run":"2016\_T2"

}

Return: JSON Object  
{

"url": "/course/",

"destination\_course\_key": "course-v1:SBS+DB103+2016\_T2"

}

ถ้า error จะ return

{

"CourseErrMsg": "Please change either the organization or course number so that it is unique.",

"OrgErrMsg": "Please change either the organization or course number so that it is unique.",

"ErrMsg": "There is already a course defined with the same organization and course number. Please change either organization or course number to be unique."

}

**Request:**

POST /course/ HTTP/1.1

Host: edx.sbs-app.com:18010

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0

Accept: application/json, text/javascript, \*/\*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json; charset=utf-8

X-CSRFToken: vmwEWC31CXxIzBLVV6wJNVERqh2S3pi0

X-Requested-With: XMLHttpRequest

Referer: http://edx.sbs-app.com:18010/course\_rerun/course-v1:SBS+DB103+2016\_T1

Content-Length: 136

Cookie: csrftoken=vmwEWC31CXxIzBLVV6wJNVERqh2S3pi0; edxloggedin=true; edx-user-info="{\"username\": \"staff\"\054 \"version\": 1\054 \"email\": \"staff@example.com\"\054 \"header\_urls\": {\"logout\": \"http://edx.sbs-app.com:18010/logout\"}}"; sessionid=3m2jcq067384n9yzhgodjopo2eivjfs4

Connection: keep-alive

{"source\_course\_key":"course-v1:SBS+DB103+2016\_T1","org":"SBS","number":"DB103","display\_name":"Advance Database Rerun","run":"2016\_T2"}

**Response:**

HTTP/1.1 200 OK

Server: nginx/1.1.19

Date: Fri, 05 Aug 2016 05:19:58 GMT

Content-Type: application/json

Connection: keep-alive

Vary: Accept-Encoding

Vary: Accept-Language, Cookie

X-Frame-Options: ALLOW

Content-Language: en

Content-Length: 83

{

"url": "/course/",

"destination\_course\_key": "course-v1:SBS+DB103+2016\_T2"

}