注意：如未标明权限为admin

**标签（label）:**

**GET: show**

url: /exam/get\_label/id

Normal response codes: 200

Error response codes: 404, 500

example:

request: http://127.0.0.1:9098/exam/get\_label/2

response:

{

"data": {

"describe": "邮件攻击",

"modified\_at": "2018-07-04 10:40:41",

"created\_at": "2018-07-04 10:40:41",

"name": "邮件",

"id": 2

},

"status": 200

}

**GET:list**

url:/exam/get\_labels

Normal response codes: 200

Error response codes: 500

example:

request: http://127.0.0.1:9098/exam/get\_labels

response:

{

"data": [

{

"describe": "安全攻击",

"modified\_at": "2018-07-04 10:39:31",

"created\_at": "2018-07-04 10:39:31",

"name": "安全",

"id": 1

},

{

"describe": "邮件攻击",

"modified\_at": "2018-07-04 10:40:41",

"created\_at": "2018-07-04 10:40:41",

"name": "邮件",

"id": 2

}

],

"status": 200

}

**POST:**

url:/exam/create\_label

Normal response codes: 201

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/create\_label

body:

{

"name": "邮件",

"describe": "邮件攻击"

}

response:

{

"data": {

"describe": "邮件攻击",

"modified\_at": "2018-07-04 10:40:41",

"created\_at": "2018-07-04 10:40:41",

"name": "邮件",

"id": 2

},

"status": 201

}

**DELETE ：**

url: /exam/delete\_label/id

Normal response codes: 204

Error response codes: 404,500

example:

request: http://127.0.0.1:9098/exam/delete\_label/2

response:

**PUT:**

url:/auth/update\_user/id

example:

Normal response codes: 200

Error response codes: 404,500

request:

url: http://127.0.0.1:9098/exam/update\_label/1

body:

{

"describe": "email邮件攻击"

}

response:

{

"data": "update success",

"status": 200

}

**场景（scene）:**

**GET: show**

url: /exam/get\_scene/id

Normal response codes: 200

Error response codes: 404, 500

example:

request: http://127.0.0.1:9098/exam/get\_scene/1

response:

{

"status": 200,

"data": {

"describe": "According to the IPS, a hacker is attacking a device via mobile malware",

"id": 1,

"created\_at": "2018-07-06 15:31:38",

"modified\_at": "2018-07-06 15:31:38"

}

}

**GET:list**

url:/exam/get\_scenes

Normal response codes: 200

Error response codes: 500

example:

request: http://127.0.0.1:9098/exam/get\_scenes

response:

{

"status": 200,

"data": [

{

"describe": "According to the IPS, a hacker is attacking a device via mobile malware",

"id": 1,

"created\_at": "2018-07-06 15:31:38",

"modified\_at": "2018-07-06 15:31:38"

}

]

}

**POST:**

url:/exam/create\_scene

Normal response codes: 201

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/create\_scene

body:

{

"describe": "According to the IPS, a hacker is attacking a device via mobile malware"

}

response:

{

"status": 201,

"data": {

"describe": "According to the IPS, a hacker is attacking a device via mobile malware",

"id": 1,

"created\_at": "2018-07-06 15:31:38",

"modified\_at": "2018-07-06 15:31:38"

}

}

**DELETE ：**

url: /exam/delete\_scene/id

Normal response codes: 204

Error response codes: 404,500

example:

request: http://127.0.0.1:9098/exam/delete\_scene/1

response:

**PUT:**

url:/auth/update\_scene/id

example:

Normal response codes: 200

Error response codes: 404,500

request:

url: http://127.0.0.1:9098/exam/update\_scene/1

body:

{

"describe": "A user is accessing the same website several hundred times"

}

response:

{

"data": "update success",

"status": 200

}

**试题（subject）:**

**GET: show**

url: /exam/get\_subject/id

Normal response codes: 200

Error response codes: 404, 500

example:

request: http://127.0.0.1:9098/exam/get\_subject/1

response:

{

"data": {

"subject": {

"answer": "8条",

"id": 1,

"type": "问答",

"scene\_id": 1

},

"labels": [

{

"describe": "email邮件攻击",

"id": 1,

"name": "安全"

}

],

"scene": {

"describe": "According to the IPS, a hacker is attacking a device via mobile malware",

"id": 1

}

},

"status": 200

}

**GET:list**

url:/exam/get\_subjects

Normal response codes: 200

Error response codes: 500

example:

request: http://127.0.0.1:9098/exam/get\_subjects

response:

{

"data": [

{

"subject": {

"answer": "8条",

"id": 1,

"type": "问答",

"scene\_id": 1

},

"labels": [

{

"describe": "email邮件攻击",

"id": 1,

"name": "安全"

}

],

"scene": {

"describe": "According to the IPS, a hacker is attacking a device via mobile malware",

"id": 1

}

}

],

"status": 200

}

**POST:**

url:/exam/create\_subject

Normal response codes: 201

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/create\_subject

body:

{

"subject": {

"topic": "青蛙有几条腿",

"type": "问答",

"answer": "8条",

"scene\_id": 1

},

"labels": [1]

}

response:

{

"data": {

"subject": {

"answer": "8条",

"id": 1,

"type": "问答",

"scene\_id": 1

},

"labels": [

{

"describe": "email邮件攻击",

"id": 1,

"name": "安全"

}

],

"scene": {

"describe": "According to the IPS, a hacker is attacking a device via mobile malware",

"id": 1

}

},

"status": 200

}

**DELETE ：**

url: /exam/delete\_subject/id

Normal response codes: 204

Error response codes: 404,500

example:

request: http://127.0.0.1:9098/exam/delete\_subject/1

response:

**PUT:**

url:/auth/update\_subject/id

example:

Normal response codes: 200

Error response codes: 404,500

request:

url: http://127.0.0.1:9098/exam/update\_suject/1

body:

{

"topic": "攻击源来自何方"

}

response:

{

"data": "update success",

"status": 200

}

**试题和标签（subject\_label）:**

**PUT:**

**add\_label\_to\_subject:**

url:/exam/add\_label\_to\_subject

Normal response codes: 200

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/add\_label\_to\_subject

body:

{

"subject\_id": 1,

"labels": [1]

}

response:

{

"status": 200,

"data": "update success"

}

**remove\_label\_to\_subject:**

url:/exam/remove\_label\_to\_subject

Normal response codes: 200

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/remove\_label\_to\_subject

body:

{

"subject\_id": 1,

"labels": [1]

}

response:

{

"status": 200,

"data": "update success"

}

**标题（head）:**

**GET: show**

url: /exam/get\_head/id

Normal response codes: 200

Error response codes: 404, 500

example:

request: http://127.0.0.1:9098/exam/get\_head/2

response:

{

"status": 200,

"data": {

"groups": [

{

"id": 2,

"description": "我们以快乐为目标",

"name": "快乐"

}

],

"head": {

"id": 2,

"all\_score": 300,

"name": "总决赛"

}

}

}

**GET:list**

url:/exam/get\_heads

Normal response codes: 200

Error response codes: 500

example:

request: http://127.0.0.1:9098/exam/get\_heads

response:

{

"status": 200,

"data": [

{

"groups": [

{

"id": 2,

"description": "我们以快乐为目标",

"name": "快乐"

}

],

"head": {

"id": 2,

"all\_score": 300,

"name": "总决赛"

}

}

]

}

**POST:**

url:/exam/create\_head

Normal response codes: 201

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/create\_head

body:

{

"head": {

"name": "总决赛",

"all\_score": "300"

},

"groups": [2]

}

response:

{

"status": 201,

"data": {

"head": {

"id": 2,

"all\_score": 300,

"name": "总决赛"

},

"groups": [

{

"id": 2,

"name": "快乐",

"description": "我们以快乐为目标"

}

]

}

}

**DELETE ：**

url: /exam/delete\_head/id

Normal response codes: 204

Error response codes: 404,500

example:

request: http://127.0.0.1:9098/exam/delete\_head/2

response:

**PUT:**

url:/auth/update\_head/id

example:

Normal response codes: 200

Error response codes: 404,500

request:

url: http://127.0.0.1:9098/exam/update\_head/2

body:

{

"name": "test总决赛"

}

response:

{

"data": "update success",

"status": 200

}

**标题和组（head\_group）:**

**PUT:**

**add\_group\_to\_head:**

url:/exam/add\_group\_to\_head

Normal response codes: 200

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/add\_group\_to\_head

body:

{

"head\_id": 2,

"groups": [2]

}

response:

{

"status": 200,

"data": "update success"

}

**remove\_group\_to\_head:**

url:/exam/remove\_group\_to\_head

Normal response codes: 200

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/remove\_group\_to\_head

body:

{

"head\_id": 2,

"groups": [2]

}

response:

{

"status": 200,

"data": "update success"

}

**考卷（paper）:**

**GET: show**

url: /exam/get\_paper/id

Normal response codes: 200

Error response codes: 404, 500

example:

request: http://127.0.0.1:9098/exam/get\_paper/2

response:

{

"status": 200,

"data": {

"questions": [

{

"paper\_id": 2,

"number": 1,

"id": 2,

"subject": {

"scene": {

"describe": "According to the IPS, a hacker is attacking a device via mobile malware",

"id": 1

},

"labels": [

{

"name": "安全",

"describe": "email邮件攻击",

"id": 1

}

],

"subject": {

"scene\_id": 1,

"answer": "8条",

"type": "问答",

"id": 1

}

},

"total\_question\_score": 100

}

],

"paper": {

"name": "卷二",

"exam\_time": 90,

"status": "new",

"total\_paper\_score": 100,

"remainder\_time": 90,

"id": 2,

"head\_id": 2

},

"users": [

{

"active": true,

"id": 3,

"username": "test"

}

]

}

}

**GET:list**

url:/exam/get\_heads

Normal response codes: 200

Error response codes: 500

example:

request: http://127.0.0.1:9098/exam/get\_heads

response:

{

"status": 200,

"data": [

{

"groups": [

{

"id": 2,

"description": "我们以快乐为目标",

"name": "快乐"

}

],

"head": {

"id": 2,

"all\_score": 300,

"name": "总决赛"

}

}

]

}

**POST:**

url:/exam/create\_paper

Normal response codes: 201

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/create\_paper

body:

{

"paper": {

"name": "卷二",

"total\_paper\_score": 100,

"exam\_time": 90,

"remainder\_time": "90",

"head\_id": 2

},

"users": [3],

"questions": [

{

"number": 1,

"total\_question\_score": 100,

"subject\_id": 1

}

]

}

response:

{

"status": 201,

"data": {

"questions": [

{

"paper\_id": 2,

"number": 1,

"id": 2,

"subject": {

"scene": {

"describe": "According to the IPS, a hacker is attacking a device via mobile malware",

"id": 1

},

"labels": [

{

"name": "安全",

"describe": "email邮件攻击",

"id": 1

}

],

"subject": {

"scene\_id": 1,

"answer": "8条",

"type": "问答",

"id": 1

}

},

"total\_question\_score": 100

}

],

"paper": {

"name": "卷二",

"exam\_time": 90,

"status": "new",

"total\_paper\_score": 100,

"remainder\_time": 90,

"id": 2,

"head\_id": 2

},

"users": [

{

"active": true,

"id": 3,

"username": "test"

}

]

}

}

**PUT:**

url:/auth/update\_paper/id

example:

Normal response codes: 200

Error response codes: 404,500

request:

url: http://127.0.0.1:9098/exam/update\_paper/1

body:

{

"exam\_time": 60,

"remainder\_time": 60

}

response:

{

"data": "update success",

"status": 200

}

**DELETE ：**

url: /exam/delete\_paper/id

Normal response codes: 204

Error response codes: 404,500

example:

request: http://127.0.0.1:9098/exam/delete\_paper/1

response:

**考卷和用户（paper\_user）:**

**PUT:**

**add\_user\_to\_paper:**

url:/exam/add\_user\_to\_paper

Normal response codes: 200

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/add\_user\_to\_paper

body:

{

"paper\_id": 2,

"users": [3]

}

response:

{

"status": 200,

"data": "update success"

}

**remove\_user\_to\_paper:**

url:/exam/remove\_user\_to\_paper

Normal response codes: 200

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/remove\_user\_to\_paper

body:

{

"paper\_id": 2,

"users": [3]

}

response:

{

"status": 200,

"data": "update success"

}

**考题（question）:**

**GET: show**

url: /exam/get\_question/id

Normal response codes: 200

Error response codes: 404, 500

example:

request: http://127.0.0.1:9098/exam/get\_question/3

response:

{

"data": {

"id": 3,

"created\_at": "2018-07-09 10:20:06",

"modified\_at": "2018-07-09 10:29:15",

"subject\_id": 1,

"paper\_id": 2,

"total\_question\_score": 30,

"number": 2

},

"status": 200

}

**GET:list**

url:/exam/get\_questions

Normal response codes: 200

Error response codes: 500

example:

request: http://127.0.0.1:9098/exam/get\_questions

response:

{

"data": [

{

"id": 1,

"created\_at": "2018-07-06 16:34:13",

"modified\_at": "2018-07-06 16:34:13",

"subject\_id": 1,

"paper\_id": null,

"total\_question\_score": 100,

"number": 1

},

{

"id": 2,

"created\_at": "2018-07-06 16:38:25",

"modified\_at": "2018-07-06 16:38:25",

"subject\_id": 1,

"paper\_id": 2,

"total\_question\_score": 100,

"number": 1

},

{

"id": 3,

"created\_at": "2018-07-09 10:20:06",

"modified\_at": "2018-07-09 10:29:15",

"subject\_id": 1,

"paper\_id": 2,

"total\_question\_score": 30,

"number": 2

}

],

"status": 200

}

**POST:**

url:/exam/create\_question

Normal response codes: 201

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/create\_question

body:

[

{

"subject\_id": 1,

"paper\_id": 2,

"total\_question\_score": 20,

"number": 2

},

{

"subject\_id": 1,

"paper\_id": 2,

“total\_question\_score": 50,

"number": 2

},

{

"subject\_id": 1,

"paper\_id": 2,

"total\_question\_score": 30,

"number": 2

}

]

response:

{

“data”:[

{

"id": 3,

"created\_at": "2018-07-09 10:20:06",

"modified\_at": "2018-07-09 10:20:06",

"subject\_id": 1,

"paper\_id": 2,

"total\_question\_score": 20,

"number": 2

},

{

"id": 3,

"created\_at": "2018-07-09 10:20:06",

"modified\_at": "2018-07-09 10:20:06",

"subject\_id": 1,

"paper\_id": 2,

"total\_question\_score": 50,

"number": 2

},

{

"id": 3,

"created\_at": "2018-07-09 10:20:06",

"modified\_at": "2018-07-09 10:20:06",

"subject\_id": 1,

"paper\_id": 2,

"total\_question\_score": 30,

"number": 2

},

],

"status": 201

}

**DELETE ：**

url: /exam/delete\_question

Normal response codes: 204

Error response codes: 404,500

example:

request:

url: http://127.0.0.1:9098/exam/delete\_question

body:

[

{"id" ：1}，

{"id" ：2}，

]

response:

{

"data": "delete success",

"status": 204

}

**PUT:**

url:/auth/update\_question/id

example:

Normal response codes: 200

Error response codes: 404,500

request:

url: http://127.0.0.1:9098/exam/update\_question

body:

[

{

"id" ：1,

"total\_question\_score": 20

},

{

"id" ：2,

"total\_question\_score": 30

},

]

response:

{

"data": "update success",

"status": 200

}

**开始考试（start\_paper）:**

**POST:**

url:/exam/start\_paper/id

注意：所需权限 examiner

Normal response codes: 201

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/start\_paper/2

body:

{

"status": "going"

}

response:

{

"data": "paper going",

"status": 200

}

**结束考试（end\_paper）:**

**POST:**

url:/exam/end\_paper/id

注意：所需权限 examiner

Normal response codes: 201

Error response codes: 404,500

example:

request:

url : http://127.0.0.1:9098/exam/end\_paper/2

body:

{

"status": "close"

}

response:

{

"data": "paper close",

"status": 200

}