

# Q.C.A.P.I

Question Collection Application Programming Interface Q.C.A.P.I is a RESTful web API containing questions organized according to themes. The questions may for example be used in quiz applications.

To use the API you have to register for an API-key. Additionally Update and Remove operations requires an admin username and password.

## Endpoints

### Retrive Endpoints

**GET** Retrive Endpoints (/api/endpoints)

You may use this action to retrive all public endpoints from the API.

#### Request

##### Headers

**Authorization:** key=

##### Response 200

##### Headers

**Content-Type:** application/json

##### Body

```
[
  {
    "name": "endpoint"
  }
]
```

##### Schema

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "array"
}
```

## Themes

Themes may be viewed as categories. A theme has a name, id and a number of questions associated with it.

### Add a New Theme

**POST** Add a New Theme (/api/themes)

You may add a new theme using this action. It takes a JSON object containing the name of the new theme and returns a URL of the added theme in the Location header.

#### Request

##### Headers

**Content-Type:** application/json  
**Authorization:** key=

##### Body

```
{
  "theme": "cities"
}
```

##### Schema

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "object",
  "properties": {
    "theme": {
      "type": "string"
    }
  }
}
```

#### Response 201

##### Headers

**Location:** /api/themes/cities

## List Themes

**GET** List Themes (/api/themes{?pageSize,minimumNumberOfQuestions})

You may use this action to retrieve an JSON array of available themes. The action can be filtered with query parameters.

### Parameters

pageSize

String (optional) **Example:** 1

Limit the number of themes.

minimumNumberOfQuestions

number (optional) **Example:** 1

Minimum number of questions related to the theme.

### Request

#### Headers

Content-Type: application/json

Authorization: key=

### Response 200

#### Headers

Content-Type: application/json

#### Body

```
[
  {
    "theme": "name of theme",
    "themeId": 1,
    "nbrOfQuestions": 1
  }
]
```

### Schema

```
{
```

```
  "$schema": "http://json-schema.org/draft-04/schema#",  
  "type": "array"  
}
```

## Get Questions From A Specific Theme

**GET** Get Questions From A Specific Theme (/api/themes/{id}{?pageSize,pageStart})

You may use this action to retrieve a JSON array of questions from a certain theme. The action can be filtered with query parameters.

### Parameters

**id**  
String (required) **Example:** cities

An unique identifier of a question.

**pageSize**  
(optional) **Example:** 15

Limit the number of questions.

**pageStart**  
(optional) **Default:** 0 **Example:** 10

Which question number to begin from.

### Request

#### Headers

**Content-Type:** application/json  
**Authorization:** key=

### Response 200

#### Headers

**Content-Type:** application/json

#### Body

[

```
{
  "id": 1,
  "question": "a question",
  "theme": "theme question belongs to",
  "correctanswer": "the correct answer",
  "incorrectanswers": [
    "first incorrect",
    "second incorrect",
    "etc"
  ],
  "mediaType": "image or audio or video",
  "mediaURL": "address/234845853.png"
}
```

## Schema

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "array"
}
```

## Single Theme Actions

**PUT** Update a Theme (/api/themes/{id})

You may use this action to change a the name of a theme. Requires admin credentials.

### Parameters

**id**  
String (required) **Example:** updated cities  
An unique identifier of a question.

### Request

#### Headers

**Content-Type:** application/json  
**Authorization:** key=,user=,password=

#### Body

```
{
```

```
  "theme": "updated cites"
}
```

#### Schema

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "object",
  "properties": {
    "theme": {
      "type": "string"
    }
  }
}
```

#### Response 200

##### Headers

Location: /api/themes/updated cities

**DELETE** Remove a Theme (/api/themes/{id})

You may use this action to delete a theme. Note that removing a theme also deletes all associated questions. Admin credentials are required.

##### Parameters

id

String (required) **Example:** updated cities

An unique identifier of a question.

#### Request

##### Headers

Content-Type: application/json

Authorization: key=,user=,password=

#### Response 204

## Questions

A question is connected to a theme and contains a question, a right answer, atleast two wrong answers and may have an image or a video/audio-file as well.

## Create a New Question

**POST** Create a New Question (/api/questions)

You may create your own question using this action. It takes a JSON object and returns a URL of the added question in the Location header.

### Request

#### Headers

Content-Type: application/json  
Authorization: key=

#### Body

```
{
  "id": 1,
  "question": "a question",
  "theme": "theme question belongs to",
  "correctanswer": "the correct anwser",
  "incorrectanswers": [
    "first incorrect",
    "second incorrect",
    "etc"
  ],
  "media": "image/audio/video or empty"
}
```

#### Schema

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "object",
  "properties": {
    "id": {
      "type": "number"
    },
    "question": {
      "type": "string"
    }
  }
}
```

```

    "theme": {
      "type": "string"
    },
    "correctanswer": {
      "type": "string"
    },
    "incorrectanswers": {
      "type": "array"
    },
    "media": {
      "type": "string"
    }
  },
  "required": [
    "id",
    "question",
    "theme",
    "correctanswer",
    "incorrectanswers"
  ]
}

```

## Response 201

### Headers

**Location:** `/api/questions/{id}`

## List Questions

**GET** List Questions (`/api/questions{?theme,pageSize,pageStart}`)

You may use this action to retrieve an JSON array of questions. The action can be filtered with query parameters. If no query parameters are given three random questions are returned by default.

### Parameters

#### theme

string (optional) **Example:** cities

A unique identifier of a theme.

#### pageSize

number (optional) **Example:** 1



The number of questions to be returned.

pageStart

number (optional) **Example:** 0

The question ID to start from. You may use this action to retrieve a random question.

## Request

### Headers

Content-Type: application/json  
Authorization: key=

## Response 200

### Headers

Content-Type: application/json

### Body

```
[
  {
    "id": 1,
    "question": "a question",
    "theme": "theme question belongs to",
    "correctanswer": "the correct answer",
    "incorrectanswers": [
      "first incorrect",
      "second incorrect",
      "etc"
    ],
    "mediaType": "image or audio or video",
    "mediaURL": "address/234845853.png"
  }
]
```

### Schema

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "array"
}
```

## Single Question actions

**GET** Get a Question (/api/questions/{id})

You may use this action to retrieve a single question.

### Parameters

id

number (required) **Example: 1**

An unique identifier of a question.

### Request

#### Headers

Content-Type: application/json

Authorization: key=

### Response 200

#### Headers

Content-Type: application/json

#### Body

```
{
  "id": 1,
  "question": "a question",
  "theme": "theme question belongs to",
  "correctanswer": "the correct answer",
  "incorrectanswers": [
    "first incorrect",
    "second incorrect",
    "etc"
  ],
  "mediaType": "image or audio or video",
  "mediaURL": "address/234845853.png"
}
```

### Schema

```
{
```

```

"$schema": "http://json-schema.org/draft-04/schema#",
"type": "object",
"properties": {
  "id": {
    "type": "number"
  },
  "question": {
    "type": "string"
  },
  "theme": {
    "type": "string"
  },
  "correctanswer": {
    "type": "string"
  },
  "incorrectanswers": {
    "type": "array"
  },
  "mediaType": {
    "type": "string"
  },
  "mediaURL": {
    "type": "string"
  }
},
"required": [
  "id",
  "question",
  "theme",
  "correctanswer",
  "incorrectanswers"
]
}

```

**PUT** Update a Question (/api/questions/{id})

You may update a question using this action. It takes a JSON object and returns a URL of the added question in the Location header. Requires admin credentials.

#### Parameters

id

number (required) **Example:** 1

An unique identifier of a question.

#### Request

## Headers

Content-Type: application/json  
Authorization: key=,user=,password=

## Body

```
{
  "id": 1,
  "question": "a question",
  "theme": "theme question belongs to",
  "correctanswer": "the correct answer",
  "incorrectanswers": [
    "first incorrect",
    "second incorrect",
    "etc"
  ],
  "media": "media",
  "mediaAction": "delete"
}
```

## Schema

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "object",
  "properties": {
    "id": {
      "type": "number"
    },
    "question": {
      "type": "string"
    },
    "theme": {
      "type": "string"
    },
    "correctanswer": {
      "type": "string"
    },
    "incorrectanswers": {
      "type": "array"
    },
    "media": {
      "type": "string"
    },
    "mediaAction": {
      "type": "string"
    }
  },
}
```

```
"required": [  
  "id",  
  "question",  
  "theme",  
  "correctanswer",  
  "incorrectanswers"  
]  
}
```

## Response 200

### Headers

Location: /api/questions/{id}

**DELETE** Delete a Question (/api/questions/{id})

You may use this action to delete a single question. Requires admin credentials.

### Parameters

id

number (required) **Example: 1**

An unique identifier of a question.

## Request

### Headers

Content-Type: application/json

Authorization: key=,user=,password=

## Response 204