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Overview

Version

Edition	description	date
v1.0.0	Initial Draft	2024.0725

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Request & Response

Request

- url

```
http://{host}:{port}
```

text

- public header

The public header parameter is a parameter used for interface authentication and user identification, For example, non-special interfaces (such as obtaining tokens) need to be added on each interface, and public parameters need to be uniformly placed in the HTTP Header request section.

Parameter name	Required	Type	Description
Authorization	Y	String	authToken
Content Type	Y	String	default: application/json
Accept	N	String	default: application/json

- query parameter

Parameter name	Required	Type	Description
page	N	Integer	page number
page_size	N	Integer	each page count

Response

- status code
- status code < 400: request success
- 400 < status code < 500: client request error, check error message please.
- 500 < status code: biotime server error

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Get Auth Token

Get General Auth Token

Request

- Method: POST
- Url: /api-token-auth/
- Headers:
 - Content-Type: application/json
- Body:

Parameter name	Required	Type	Description
username	Y	String	
password	Y	String	

```
{  "username": "username",  "password": "password"}
```

Response

- Data type: application/json

Field name	Type	Description
token	String	

```
{  "token": "gP4K.....biHuoy"}
```

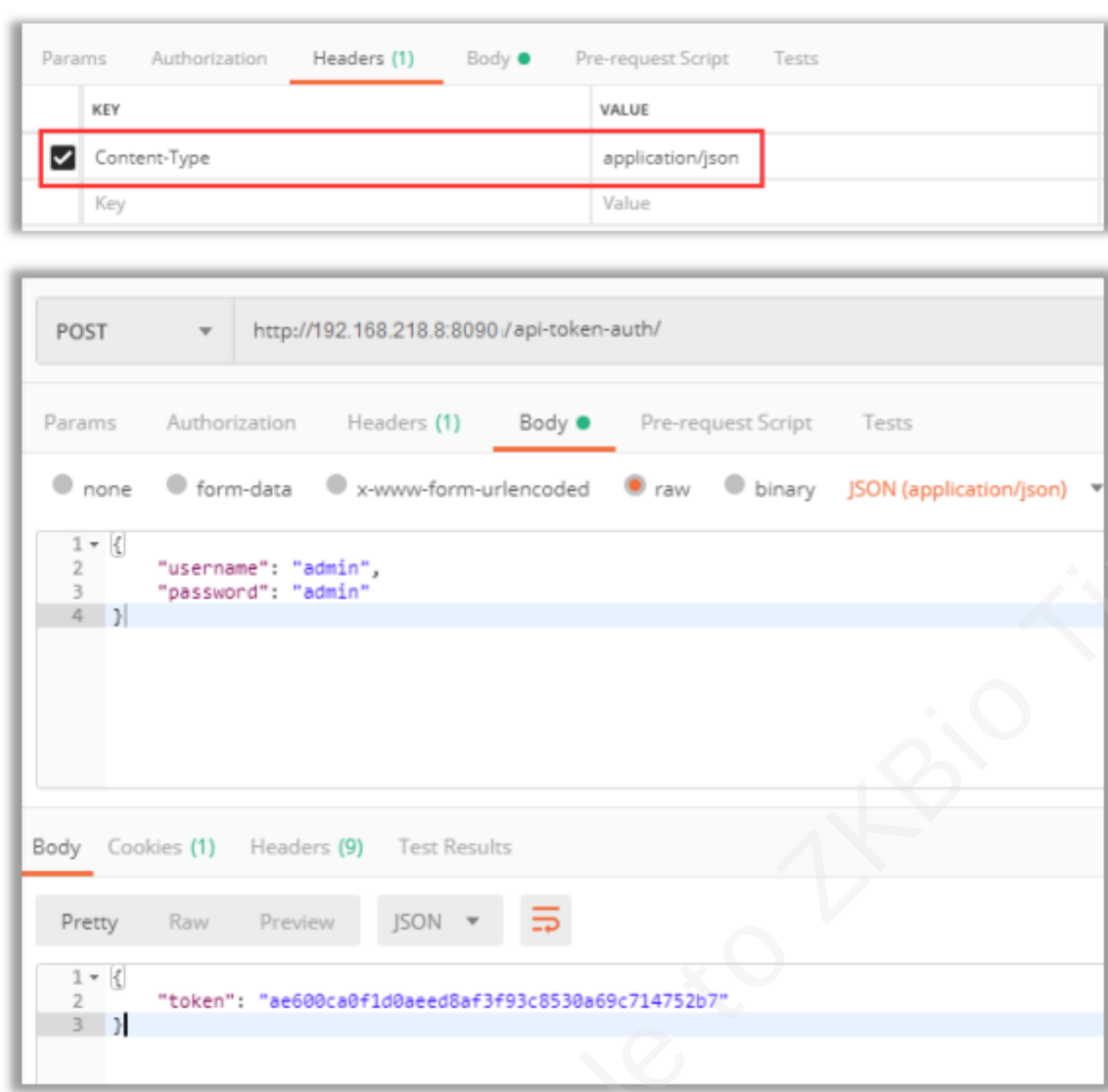
Python example

```
import json
import requests

url = "http://{host}:{port}/api-token-auth/"
headers = {
    "Content-Type": "application/json",
}
data = {
    "username": "admin",
    "password": "admin"
}

response = requests.post(url, data=json.dumps(data), headers=headers)
print(response.text)
```

Postman example



Java example

```
public static String doPost(String httpUrl, String param) {

    HttpURLConnection connection = null;
    InputStream is = null;
    OutputStream os = null;
    BufferedReader br = null;
    String result = null;
    try {
        URL url = new URL(httpUrl);
        connection = (HttpURLConnection) url.openConnection();
        connection.setRequestMethod("POST");
        connection.setConnectTimeout(15000);
        connection.setReadTimeout(60000);

        connection.setDoOutput(true);
        connection.setDoInput(true);
        connection.setRequestProperty("Content-Type", "application/json");
        os = connection.getOutputStream();
        os.write(param.getBytes());
        if (connection.getResponseCode() == 200) {

            is = connection.getInputStream();
            br = new BufferedReader(new InputStreamReader(is, "UTF-8"));

            StringBuffer sbf = new StringBuffer();
            String temp = null;
            while ((temp = br.readLine()) != null) {
                sbf.append(temp);
                sbf.append("\r\n");
            }
            result = sbf.toString();
        }
    } catch (MalformedURLException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    } finally {
        if (null != br) {
            try {
                br.close();
            } catch (IOException e) {
                e.printStackTrace();
            }
        }
        if (null != os) {
            try {
                os.close();
            } catch (IOException e) {
                e.printStackTrace();
            }
        }
        if (null != is) {
            try {
                is.close();
            } catch (IOException e) {
                e.printStackTrace();
            }
        }
        connection.disconnect();
    }
    return result;
}

public static String buildParams(String username, String password){
    String tmp = "{\"username\": \"\" + username + "\",\" +
        \"password\": \"\"+ password + "\"}";
    return tmp;
}

public static void main(String[] args){
    // final String url = "http://{host}:{port}/api-token-auth/";
    final String url = "http://{host}:{port}/api-token-auth/";
    String param = buildParams("admin", "admin");
    String result = doPost(url, param);
}
```

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Use Auth Token

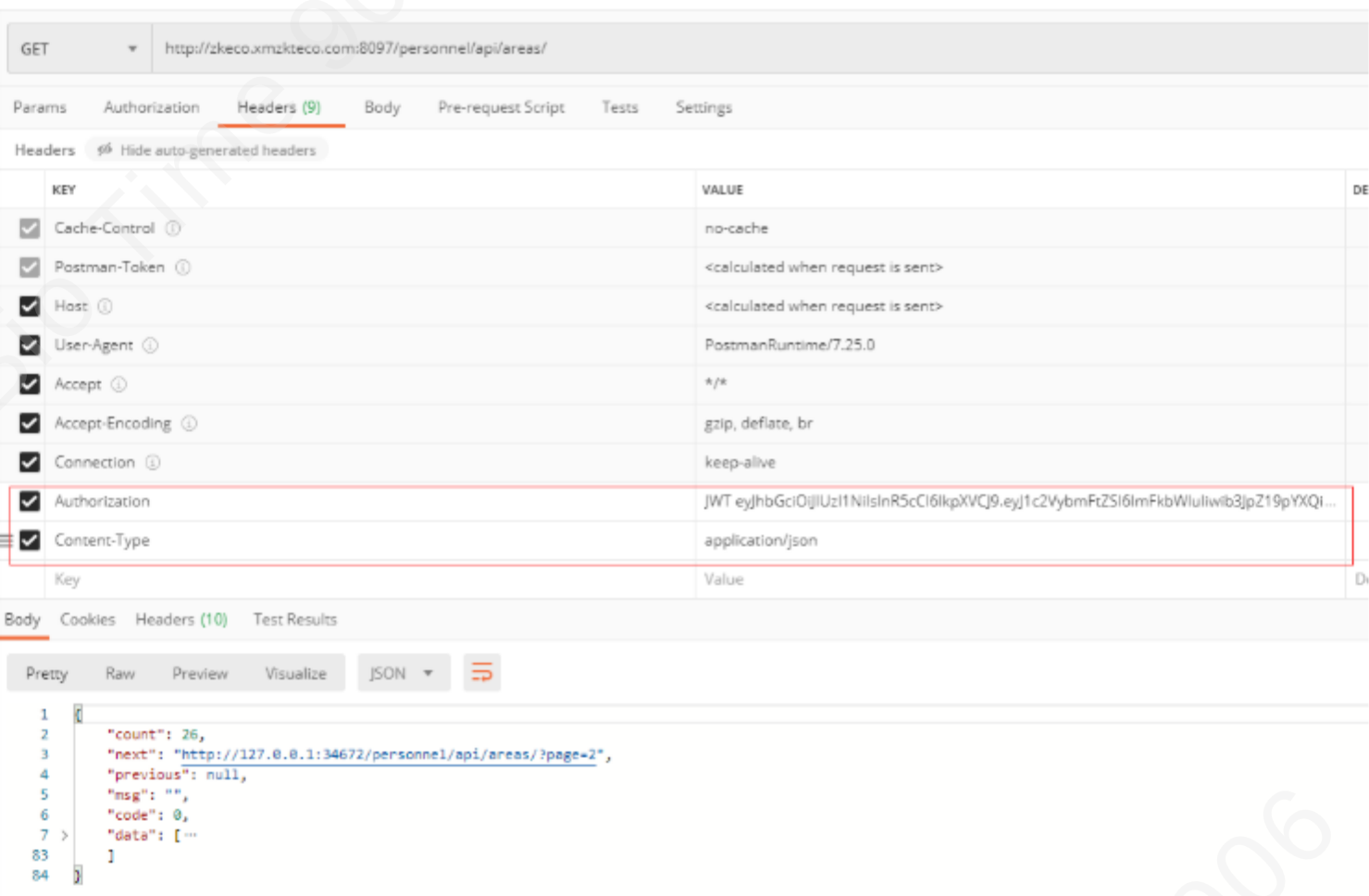
Python example

```
import json
import requests

url = "http://{host}:{port}/personnel/api/areas/"
# use General token
headers = {
    "Content-Type": "application/json",
    "Authorization": "Token ae600.....2b7",
}
# or use JWT token
headers = {
    "Content-Type": "application/json",
    "Authorization": "JWT ey.....oQi98",
}

response = requests.get(url, headers=headers)
print(response.text)
```

Postman example



Java example

```
public static String doGet(String httpUrl, String token){
    HttpURLConnection connection = null;
    InputStream is = null;
    OutputStream os = null;
    BufferedReader br = null;
    String result = null;
    try {
        URL url = new URL(httpUrl);
        connection = (HttpURLConnection) url.openConnection();
        connection.setRequestMethod("GET");
        connection.setConnectTimeout(15000);
        connection.setReadTimeout(60000);
        connection.setRequestProperty("Content-Type", "application/json");
        connection.setRequestProperty("Authorization", token);
        connection.connect();
        if (connection.getResponseCode() == 200) {

            is = connection.getInputStream();
            br = new BufferedReader(new InputStreamReader(is, "UTF-8"));

            StringBuffer sbf = new StringBuffer();
            String temp = null;
            while ((temp = br.readLine()) != null) {
                sbf.append(temp);
                sbf.append("\r\n");
            }
            result = sbf.toString();
        }
    } catch (MalformedURLException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    } finally {
        if (null != br) {
            try {
                br.close();
            } catch (IOException e) {
                e.printStackTrace();
            }
        }
        if (null != os) {
            try {
                os.close();
            } catch (IOException e) {
                e.printStackTrace();
            }
        }
        if (null != is) {
            try {
                is.close();
            } catch (IOException e) {
                e.printStackTrace();
            }
        }
        connection.disconnect();
    }
    return result;
}

public static void main(String[] args){
    final String url = "http://{host}:{port}/personnel/api/areas/";
    final String token = "Token ae600.....2b7";
    String result = doGet(url, token);
}
```

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Api Example

Python example

get area list

```
import json
import requests

url = "http://{host}:{port}/personnel/api/areas/"
# use General token
headers = {
    "Content-Type": "application/json",
    "Authorization": "Token ae600.....2b7",
}
# or use JWT token
headers = {
    "Content-Type": "application/json",
    "Authorization": "JWT ey.....0Q198",
}

response = requests.get(url, headers=headers)
print(response.text)
```

add area

```
import json
import requests

url = "http://{host}:{port}/personnel/api/areas/"
# use General token
headers = {
    "Content-Type": "application/json",
    "Authorization": "Token ae600.....2b7",
}
# or use JWT token
headers = {
    "Content-Type": "application/json",
    "Authorization": "JWT ey.....0Q198",
}

data = {
    'area_code': '0001',
    'area_name': 'test area'
}

response = requests.post(url, data=json.dumps(data), headers=headers)
print(response.text)
```

filter area list

```
import json
import requests

url = "http://{host}:{port}/personnel/api/areas/"
# use General token
headers = {
    "Content-Type": "application/json",
    "Authorization": "Token ae600.....2b7",
}
# or use JWT token
headers = {
    "Content-Type": "application/json",
    "Authorization": "JWT ey.....0Q198",
}

filter_params = {
    'area_name': 'test area'
}

response = requests.get(url, params=filter_params, headers=headers)
print(response.text)
```

edit area

```
import json
import requests

url = "http://{host}:{port}/personnel/api/areas/"
# use General token
headers = {
    "Content-Type": "application/json",
    "Authorization": "Token ae600.....2b7",
}
# or use JWT token
headers = {
    "Content-Type": "application/json",
    "Authorization": "JWT ey.....0Q198",
}

data = {
    'area_name': 'test area name'
}

response = requests.put(url, data=json.dumps(data), headers=headers)
print(response.text)
```

get area info

```
import json
import requests

url = "http://{host}:{port}/personnel/api/areas/2/"
# use General token
headers = {
    "Content-Type": "application/json",
    "Authorization": "Token ae600.....2b7",
}
# or use JWT token
headers = {
    "Content-Type": "application/json",
    "Authorization": "JWT ey.....0Q198",
}

response = requests.get(url, headers=headers)
print(response.text)
```

delete area

```
import json
import requests

url = "http://{host}:{port}/personnel/api/areas/2/"
# use General token
headers = {
    "Content-Type": "application/json",
    "Authorization": "Token ae600.....2b7",
}
# or use JWT token
headers = {
    "Content-Type": "application/json",
    "Authorization": "JWT ey.....0Q198",
}

response = requests.delete(url, headers=headers)
print(response.text)
```

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Area

List

Request

- Method: GET
- Url: /personnel/api/areas/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Query Parameters

Parameter	Description
page	Which page is displayed
page_size	Show the number of data on this page
area_code	Use this field to query
area_name	Use this field to query
area_code_icontains	Query the data that this field contains
area_name_icontains	Query the data that this field contains
ordering	id, area_code, area_name

Response

```
{
  "count": 27,
  "next": "null",
  "previous": null,
  "msg": "",
  "code": 0,
  "data": [
    {
      "id": 1,
      "area_code": "1",
      "area_name": "WORLD",
      "parent_area": null
    },
    {
      "id": 93,
      "area_code": "5190062",
      "area_name": "Shenzhen",
      "parent_area": null
    },
    ...
  ]
}
```

Read

Request

- Method: GET
- Url: /personnel/api/areas/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

Response

```
- **Url:** /personnel/api/areas/1/
{
  "id": 1,
  "area_code": "1",
  "area_name": "WORLD",
  "parent_area": null
}
```

Create

- Method: POST
- Url: /personnel/api/areas/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Request Body

```
{
  "area_code": "test area code",
  "area_name": "test area name",
  "parent_area": null
}
```

Parameter	Required	Type	Description
area_code	Y	String	Area Code
area_name	Y	String	Area Name
parent_area	N	Integer	Parent Area

Response

```
{
  "id": 100,
  "area_code": "test area code",
  "area_name": "test area name",
  "parent_area": null
}
```

Update

Request

- Method: PUT
- Url: /personnel/api/areas/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

- Request Body

```
{
  "area_code": "11",
  "area_name": "test area name",
}
```

Parameter	Required	Type	Description
area_code	Y	String	Area Code
area_name	Y	String	Area Name
parent_area	N	Integer	Parent Area

Response

```
- **Url:** PUT /personnel/api/areas/1/
{
  "id": 1,
  "area_code": "11",
  "area_name": "WORLD WORLD",
  "parent_area": null
}
```

Delete

Request

- Method: DELETE
- Url: /personnel/api/areas/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

Response

```
None
```

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Department

List

Request

- Method: GET
- Url: /personnel/api/departments/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Query Parameters

Parameter	Description
page	Which page is displayed
page_size	Show the number of data on this page
dept_code	Use this field to query
dept_name	Use this field to query
dept_code_icontains	Query the data that this field contains
dept_name_icontains	Query the data that this field contains
ordering	id, dept_code, dept_name

Response

```
{  "count": 27,  "next": "null",  "previous": null,  "msg": "",  "code": 0,  "data": [    {      "id": 1,      "dept_code": "1",      "dept_name": "WORLD",      "parent_dept": null    },    {      "id": 93,      "dept_code": "5190062",      "dept_name": "shenzhen",      "parent_dept": null    },    ...    ...  ]}
```

Read

Request

- Method: GET
- Url: /personnel/api/departments/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

Response

```
- **Url:** /personnel/api/departments/1/  text{  "id": 1,  "dept_code": "1",  "dept_name": "WORLD",  "parent_dept": null}
```

Create

- Method: POST
- Url: /personnel/api/departments/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Request Body

```
{  "dept_code": "test dept code",  "dept_name": "test dept name",  "parent_dept": null}
```

Parameter	Required	Type	Description
dept_code	Y	String	Department Code
dept_name	Y	String	Department Name
parent_dept	N	Integer	Parent Department

Response

```
{  "id": 100,  "dept_code": "test dept code",  "dept_name": "test dept name",  "parent_dept": null}
```

Update

Request

- Method: PUT
- Url: /personnel/api/departments/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

Request Body

```
{  "dept_code": "11",  "dept_name": "test dept name",}
```

Parameter	Required	Type	Description
dept_code	Y	String	Department Code
dept_name	Y	String	Department Name
parent_dept	N	Integer	Parent Department

Response

```
- **Url:** PUT /personnel/api/departments/1/  text{  "id": 1,  "dept_code": "11",  "dept_name": "WORLD WORLD",  "parent_dept": null}
```

Delete

Request

- Method: DELETE
- Url: /personnel/api/departments/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

Response

```
None  text
```

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Position

List

Request

- Method: GET
- Url: /personnel/api/positions/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Query Parameters

Parameter	Description
page	Which page is displayed
page_size	Show the number of data on this page
position_code	Use this field to query
position_name	Use this field to query
position_code_icontains	Query the data that this field contains
position_name_icontains	Query the data that this field contains
ordering	id, position_code, position_name

Response

```
{  "count": 27,  "next": "null",  "previous": null,  "msg": "",  "code": 0,  "data": [    {      "id": 1,      "position_code": "1",      "position_name": "WORLD",      "parent_position": null    },    {      "id": 93,      "position_code": "5190062",      "position_name": "shenzhen",      "parent_position": null    },    ...    ...  ]}
```

Read

Request

- Method: GET
- Url: /personnel/api/positions/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

Response

```
- **Url:** /personnel/api/positions/1/  text{  "id": 1,  "position_code": "1",  "position_name": "WORLD",  "parent_position": null}
```

Create

- Method: POST
- Url: /personnel/api/positions/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Request Body

```
{  "position_code": "test position code",  "position_name": "test position name",  "parent_position": null}
```

Parameter	Required	Type	Description
position_code	Y	String	Position Code
position_name	Y	String	Position Name
parent_position	N	Integer	Parent Position

Response

```
{  "id": 100,  "position_code": "test position code",  "position_name": "test position name",  "parent_position": null}
```

Update

Request

- Method: PUT
- Url: /personnel/api/positions/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

Request Body

```
{  "position_code": "11",  "position_name": "test position name",}
```

Parameter	Required	Type	Description
position_code	Y	String	Position Code
position_name	Y	String	Position Name
parent_position	N	Integer	Parent Position

Response

```
- **Url:** PUT /personnel/api/positions/1/  text{  "id": 1,  "position_code": "11",  "position_name": "WORLD WORLD",  "parent_position": null}
```

Delete

Request

- Method: DELETE
- Url: /personnel/api/positions/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

Response

```
None  text
```

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Employee

List

Request

- Method: GET
- Url: /personnel/api/employees/
- Headers
 - Content-Type: application/json
 - Authorization: 'JWT ey.....eQ98'
- Query Parameters

Parameter	Description
page	Which page is displayed
page_size	Show the number of data on this page
emp_code	Use this field to query
emp_code_contains	Query the data that this field contains
first_name	Use this field to query
first_name_contains	Query the data that this field contains
last_name	Use this field to query
last_name_contains	Query the data that this field contains
department	Use this field to query
areas	Use this field to query

Response

```
json
{
  "count": 6,
  "next": null,
  "previous": null,
  "msg": "",
  "code": 0,
  "data": [
    {
      "id": 1,
      "emp_code": "000",
      "first_name": "",
      "last_name": null,
      "nickname": null,
      "device_password": null,
      "card_no": null,
      "department": {
        "id": 3115,
        "dept_code": "4",
        "dept_name": "RWAS Egypt"
      },
      "position": null,
      "hire_date": "2020-06-01",
      "gender": null,
      "birthday": null,
      "verify_code": 0,
      "emp_type": null,
      "contact_tel": null,
      "office_tel": null,
      "mobile": null,
      "national": null,
      "city": null,
      "address": null,
      "postcode": null,
      "email": null,
      "enroll_sn": "CEU9203700002",
      "ssn": null,
      "religion": null,
      "enable_att": true,
      "enable_overtime": false,
      "enable_holiday": true,
      "dev_privilege": 0,
      "area": [
        {
          "id": 136,
          "area_code": "1111.111.11",
          "area_name": "test1"
        }
      ],
      "app_status": 0,
      "app_role": 1,
      "update_time": "2020-06-01 19:37:35",
      "finger_print": "ver 10:1",
      "face": "-.-",
      "palm": "-.-",
      "vl_face": "-.-"
    },
    .....
  ]
}
```

Read

Request

- Method: GET
- Url: /personnel/api/employees/{id}/
- Headers
 - Content-Type: application/json
 - Authorization: 'JWT ey.....eQ98'
- Path Parameters

Parameter	Description
id	required

Response

```
json
{
  "id": 1,
  "emp_code": "000",
  "first_name": "",
  "last_name": null,
  "nickname": null,
  "device_password": null,
  "card_no": null,
  "department": {
    "id": 3115,
    "dept_code": "4",
    "dept_name": "RWAS Egypt"
  },
  "position": null,
  "hire_date": "2020-06-01",
  "gender": null,
  "birthday": null,
  "verify_code": 0,
  "emp_type": null,
  "contact_tel": null,
  "office_tel": null,
  "mobile": null,
  "national": null,
  "city": null,
  "address": null,
  "postcode": null,
  "email": null,
  "enroll_sn": "CEU9203700002",
  "ssn": null,
  "religion": null,
  "enable_att": true,
  "enable_overtime": false,
  "enable_holiday": true,
  "dev_privilege": 0,
  "area": [
    {
      "id": 136,
      "area_code": "1111.111.11",
      "area_name": "test1"
    }
  ],
  "app_status": 0,
  "app_role": 1,
  "update_time": "2020-06-01 19:37:35",
  "finger_print": "ver 10:1",
  "face": "-.-",
  "palm": "-.-",
  "vl_face": "-.-"
}
```

Create

- Method: POST
- Url: /personnel/api/employees/
- Headers
 - Content-Type: application/json
 - Authorization: 'JWT ey.....eQ98'
- Request Body

```
json
{
  "emp_code": "111111111",
  "department": 1,
  "area": [1, 2]
}
```

Parameter	Required	Type	Description
emp_code	Y	String	Employee Code
department	Y	Integer	department id, example: [1, 2, 3, ...]
area	Y	List	area id
hire_date	N	String	format: yyyy-mm-dd, default today
first_name	N	String	max length:25 char
last_name	N	String	max length:25 char
gender	N	String	S, F, M
mobile	N	String	max length:20 char
national	N	String	max length:50 char
address	N	String	max length:200 char
email	N	String	max length:50 char, input right format
app_status	N	Integer	(1: Enable){0: Disable}
...	N	String	
...	N	String	

Response

```
json
{
  "id": 100,
  "emp_code": "111111111",
  "first_name": "",
  "last_name": null,
  "nickname": null,
  "device_password": null,
  "card_no": null,
  "department": {
    "id": 1,
    "dept_code": "default dept",
    "dept_name": "default dept"
  },
  "position": null,
  "hire_date": "2020-06-01",
  "gender": null,
  "birthday": null,
  "verify_code": 0,
  "emp_type": null,
  "contact_tel": null,
  "office_tel": null,
  "mobile": null,
  "national": null,
  "city": null,
  "address": null,
  "postcode": null,
  "email": null,
  "enroll_sn": "",
  "ssn": null,
  "religion": null,
  "enable_att": true,
  "enable_overtime": false,
  "enable_holiday": true,
  "dev_privilege": 0,
  "area": [
    {
      "id": 1,
      "area_code": "default dept",
      "area_name": "default dept"
    },
    {
      "id": 2,
      "area_code": "default dept1",
      "area_name": "default dept1"
    }
  ],
  "app_status": 0,
  "app_role": 1,
  "update_time": "2020-06-01 19:37:35",
  "finger_print": "",
  "face": "-.-",
  "palm": "-.-",
  "vl_face": "-.-"
}
```

Update

Request

- Method: PUT
- Url: /personnel/api/employees/{id}/
- Headers
 - Content-Type: application/json
 - Authorization: 'JWT ey.....eQ98'
- Path Parameters

Parameter	Description
id	required

```
json
{
  "emp_code": "111111111",
  "department": 1,
  "area": [1, 2]
}
```

Parameter	Required	Type	Description
emp_code	Y	String	Employee Code
department	Y	Integer	department id, example: [1, 2, 3, ...]
area	Y	List	area id
hire_date	N	String	format: yyyy-mm-dd, default today
first_name	N	String	max length:25 char
last_name	N	String	max length:25 char
gender	N	String	S, F, M
mobile	N	String	max length:20 char
national	N	String	max length:50 char
address	N	String	max length:200 char
email	N	String	max length:50 char, input right format
app_status	N	Integer	(1: Enable){0: Disable}
...	N	String	
...	N	String	

Response

```
json
{
  "id": 100,
  "emp_code": "111111111",
  "first_name": "",
  "last_name": null,
  "nickname": null,
  "device_password": null,
  "card_no": null,
  "department": {
    "id": 1,
    "dept_code": "default dept",
    "dept_name": "default dept"
  },
  "position": null,
  "hire_date": "2020-06-01",
  "gender": null,
  "birthday": null,
  "verify_code": 0,
  "emp_type": null,
  "contact_tel": null,
  "office_tel": null,
  "mobile": null,
  "national": null,
  "city": null,
  "address": null,
  "postcode": null,
  "email": null,
  "enroll_sn": "",
  "ssn": null,
  "religion": null,
  "enable_att": true,
  "enable_overtime": false,
  "enable_holiday": true,
  "dev_privilege": 0,
  "area": [
    {
      "id": 1,
      "area_code": "default dept",
      "area_name": "default dept"
    },
    {
      "id": 2,
      "area_code": "default dept1",
      "area_name": "default dept1"
    }
  ],
  "app_status": 0,
  "app_role": 1,
  "update_time": "2020-06-01 19:37:35",
  "finger_print": "",
  "face": "-.-",
  "palm": "-.-",
  "vl_face": "-.-"
}
```

Delete

Request

- Method: DELETE
- Url: /personnel/api/employees/{id}/
- Headers
 - Content-Type: application/json
 - Authorization: 'JWT ey.....eQ98'
- Path Parameters

Parameter	Description
id	required

```
json
{
}
```

Adjust area

Request

- Method: POST
- Url: /personnel/api/employees/adjust_area/
- Headers
 - Content-Type: application/json
 - Authorization: 'JWT ey.....eQ98'
- Request Body

```
json
{
  "employees": [1, 2],
  "areas": [3, 4]
}
```

Parameter	Required	Type	Description
employees	Y	List	employee id list example: [1, 2, 3, ...]
areas	Y	List	area id list, example: [1, 2, 3, ...]

Adjust department

Request

- Method: POST
- Url: /personnel/api/employees/adjust_department/
- Headers
 - Content-Type: application/json
 - Authorization: 'JWT ey.....eQ98'
- Request Body

```
json
{
  "employees": [1, 2],
  "department": 2
}
```

Parameter	Required	Type	Description
employees	Y	List	employee id list example: [1, 2, 3, ...]
department	Y	Integer	department id

Adjust resign

Request

- Method: POST
- Url: /personnel/api/employees/adjust_resign/
- Headers
 - Content-Type: application/json
 - Authorization: 'JWT ey.....eQ98'
- Request Body

```
json
{
  "employees": [1, 2],
  "resign_date": 2,
  "reason_type": 1,
  "reason": "test reason",
  "disablaett": true
}
```

Parameter	Required	Type	Description
employees	Y	List	employee id list example: [1, 2, 3, ...]
resign_date	Y	String	format: yyyy-mm-dd
resign_type	Y	Integer	(1: quit), (2: dismissed), (3: resign), (4: transfer), (5: retain job without Salary).
reason	N	String	max length:200 char
disablaett	Y	Bool	true, false

Del bio template

Request

- Method: POST
- Url: /personnel/api/employees/del_bio_template/
- Headers
 - Content-Type: application/json
 - Authorization: 'JWT ey.....eQ98'
- Request Body

```
json
{
  "employees": [1, 2],
  "finger_print": true,
  "face": false,
  "finger_vein": true,
  "palm": true
}
```

Parameter	Required	Type	Description
employees	Y	List	employee id list example: [1, 2, 3, ...]
finger_print	N	Bool	true, false
face	N	Bool	true, false
finger_vein	N	Bool	true, false
palm	N	Bool	true, false

Resync to device

Request

- Method: POST
- Url: /personnel/api/employees/resync_to_device/
- Headers
 - Content-Type: application/json
 - Authorization: 'JWT ey.....eQ98'
- Request Body

```
json
{
  "employees": [1, 2]
}
```

Parameter	Required	Type	Description
employees	Y	List	employee id list example: [1, 2, 3, ...]

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List

Request

- Method: GET
- Url: /personnel/api/resigns/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ/98"
- Query Parameters

Parameter	Description
page	Which page is displayed
page_size	Show the number of data on this page
employee	Use this field to query
resign_type	Use this field to query
resign_date	Use this field to query

Response

```
{  "count": 5,  "next": null,  "previous": null,  "msg": "",  "code": 0,  "data": [    {      "id": 5,      "resign_date": "2020-06-04",      "resign_type": 1,      "disableatt": true,      "employee": {        "id": 3,        "emp_code": "11111122",        "first_name": "aaabb",        "last_name": ""      },      "first_name": "aaabb",      "last_name": ""    },    {      "id": 3,      "emp_code": "11111122",      "first_name": "aaabb",      "last_name": ""    }  ]}
```

Read

Request

- Method: GET
- Url: /personnel/api/resigns/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ/98"
- Path Parameters

Parameter	Description
id	required

Response

- Url: /personnel/api/resigns/5/

```
{  "id": 5,  "resign_date": "2020-06-04",  "resign_type": 1,  "disableatt": true,  "employee": {    "id": 3,    "emp_code": "11111122",    "first_name": "aaabb",    "last_name": ""  },  "first_name": "aaabb",  "last_name": ""}
```

Create

- Method: POST
- Url: /personnel/api/resigns/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ/98"
- Request Body

```
{  "employee": 3,  "disableatt": true,  "resign_type": 1,  "resign_date": "2020-06-01",  "reason": ""}
```

[Parameter[Required][Type] Description | | ---- | ---- |-----|-----|
[resign_type][Integer] default value:1, can input(1-5)five options | [disableatt][Bool] true or false |
[resign_date][String] format: yyyy-mm-dd | [employee][Integer] emp ID | [reason][NString] max length:200 char |

Response

```
{  "id": 5,  "resign_date": "2020-06-01",  "resign_type": 1,  "disableatt": true,  "employee": {    "id": 3,    "emp_code": "11111122",    "first_name": "aaabb",    "last_name": ""  },  "first_name": "aaabb",  "last_name": ""}
```

Update

Request

- Method: PUT
- Url: /personnel/api/resigns/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ/98"
- Path Parameters

Parameter	Description
id	required

- Request Body

```
{  "resign_date": "2020-06-02"}
```

Parameter	Required	Type	Description
resign_type	N	Integer	default value:1, can input(1-5)five options
disableatt	N	Bool	true or false
disableatt	N	String	format: yyyy-mm-dd
reason	N	String	max length:200 char

Response

- Url: /personnel/api/resigns/5/

```
{  "id": 5,  "resign_date": "2020-06-02",  "resign_type": 1,  "disableatt": true,  "employee": {    "id": 3,    "emp_code": "11111122",    "first_name": "aaabb",    "last_name": ""  },  "first_name": "aaabb",  "last_name": ""}
```

Delete

Request

- Method: DELETE
- Url: /personnel/api/resigns/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ/98"
- Path Parameters

Parameter	Description
id	required

Response

```
None
```

Reinstatement

Request

- Method: POST
- Url: /personnel/api/resigns/reinstatement/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ/98"
- Request Body

```
{  "resigns": [1]}
```

Parameter	Required	Type	Description
resigns	Y	List	resign id list example: [1, 2, 3, ...]

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- Request
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Device

List

Request

- Method: GET
- Url: /iclock/api/terminals/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Query Parameters

Parameter	Description
page	Which page is displayed
page_size	Show the number of data on this page
sn	Use this field to query
alias	Use this field to query
state	Use this field to query
area	Use this field to query
sn_contains	Query the data that this field contains
alias_contains	Query the data that this field contains

Response

```
{  "count": 6,  "next": null,  "previous": null,  "msg": "",  "code": 0,  "data": {    {      "id": 5,      "sn": "A6CX192668802",      "ip_address": "127.0.0.1",      "alias": "Auto add",      "terminal_name": null,      "fu_ver": null,      "fu_ver": null,      "push_ver": null,      "state": 1,      "terminal_ts": 8,      "area": {        "id": 1,        "area_code": "11",        "area_name": "Not Authorized"      },      "last_activity": "2020-06-02 15:04:38",      "user_count": null,      "fp_count": null,      "face_count": null,      "palm_count": null,      "transaction_count": null,      "push_time": null,      "transfer_time": "00:00:14:05",      "transfer_interval": 1,      "is_attendance": 1,      "area_name": "Not Authorized"    },    .....  ]  }
```

Read

Request

- Method: GET
- Url: /iclock/api/terminals/{id}/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Path Parameters

Parameter	Description
id	required

Response

- Url: /iclock/api/terminals/5/

```
{  "id": 5,  "sn": "A6CX192668802",  "ip_address": "127.0.0.1",  "alias": "Auto add",  "terminal_name": null,  "fu_ver": null,  "push_ver": null,  "state": 1,  "terminal_ts": 8,  "area": {    "id": 1,    "area_code": "11",    "area_name": "Not Authorized"  },  "last_activity": "2020-06-02 15:04:38",  "user_count": null,  "fp_count": null,  "face_count": null,  "palm_count": null,  "transaction_count": null,  "push_time": null,  "transfer_time": "00:00:14:05",  "transfer_interval": 1,  "is_attendance": 1,  "area_name": "Not Authorized"}
```

Create

- Method: POST
- Url: /iclock/api/terminals/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Request Body

```
{  "sn": "1111111111",  "alias": "test device",  "ip_address": "127.0.0.1",  "terminal_ts": 8,  "heartbeat": 10,  "area": 1}
```

[Parameter]Required[Type] Description | |-----|-----| |sn|[String] Serial Number | |alias|[String] Device Name | |ip_address|[String] Device IP | |terminal_ts|[Integer] 54 options | |heartbeat|[Integer] default value:10 | |area|[Integer] area | |-[N]String | |-[N]String |

Response

```
{  "id": 9,  "sn": "1111111111",  "ip_address": "127.0.0.1",  "alias": "test device",  "terminal_name": null,  "fu_ver": null,  "push_ver": null,  "state": 1,  "terminal_ts": 8,  "area": {    "id": 1,    "area_code": "11",    "area_name": "Not Authorized"  },  "last_activity": "2020-06-02 15:04:38",  "user_count": null,  "fp_count": null,  "face_count": null,  "palm_count": null,  "transaction_count": null,  "push_time": null,  "transfer_time": "00:00:14:05",  "transfer_interval": 1,  "is_attendance": 1,  "area_name": "Not Authorized"}
```

Update

Request

- Method: PUT
- Url: /iclock/api/terminals/{id}/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Path Parameters

Parameter	Description
id	required

- Request Body

```
{  "sn": "1111111111",  "alias": "test device",  "ip_address": "127.0.0.1",  "terminal_ts": 8,  "heartbeat": 10,  "area": 1}
```

[Parameter]Required[Type] Description | |-----|-----| |sn|[String] Serial Number | |alias|[String] Device Name | |ip_address|[String] Device IP | |terminal_ts|[Integer] 54 options | |heartbeat|[Integer] default value:10 | |area|[Integer] area | |-[N]String | |-[N]String |

Delete

Request

- Method: DELETE
- Url: /iclock/api/terminals/{id}/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Path Parameters

Parameter	Description
id	required

Response

```
{  "code": 200}
```

Clear command

Request

- Method: POST
- Url: /iclock/api/terminals/clear_command/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Request Body

```
{  "terminals": [1]}
```

Parameter	Required	Type	Description
terminals	Y	List	terminal id list example: [1, 2, 3, ...]

Clear command

Request

- Method: POST
- Url: /iclock/api/terminals/clear_command/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Request Body

```
{  "terminals": [1]}
```

Parameter	Required	Type	Description
terminals	Y	List	terminal id list example: [1, 2, 3, ...]

Clear capture

Request

- Method: POST
- Url: /iclock/api/terminals/clear_capture/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Request Body

```
{  "terminals": [1]}
```

Parameter	Required	Type	Description
terminals	Y	List	terminal id list example: [1, 2, 3, ...]

Clear all

Request

- Method: POST
- Url: /iclock/api/terminals/clear_all/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Request Body

```
{  "terminals": [1]}
```

Parameter	Required	Type	Description
terminals	Y	List	terminal id list example: [1, 2, 3, ...]

Upload all

Request

- Method: POST
- Url: /iclock/api/terminals/upload_all/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Request Body

```
{  "terminals": [1]}
```

Parameter	Required	Type	Description
terminals	Y	List	terminal id list example: [1, 2, 3, ...]

Upload transaction

Request

- Method: POST
- Url: /iclock/api/terminals/upload_transaction/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Request Body

```
{  "terminals": [1]}
```

Parameter	Required	Type	Description
terminals	Y	List	terminal id list example: [1, 2, 3, ...]

Reboot

Request

- Method: POST
- Url: /iclock/api/terminals/reboot/
- Headers
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQ98"
- Request Body

```
{  "terminals": [1]}
```

Parameter	Required	Type	Description
terminals	Y	List	terminal id list example: [1, 2, 3, ...]

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Transaction

List

Request

- Method: GET
- Url: /iclock/api/transactions/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Query Parameters

Parameter	Description
page	Which page is displayed
page_size	Show the number of data on this page
emp_code	Use this field to query
terminal_sn	Use this field to query
terminal_alias	Use this field to query
start_time	Use this field to query, example: ?start_time=2022-07-04 10:00:00
end_time	Use this field to query, example: ?end_time=2022-07-04 10:00:00

Response

```
{  "count": 6,  "next": null,  "previous": null,  "msg": "",  "code": 0,  "data": [    {      "id": 1,      "emp_code": "1111111122",      "first_name": "",      "last_name": "",      "department": "Department",      "position": "Position",      "punch_time": "2020-06-05 00:00:00",      "punch_state": "0",      "punch_state_display": "Check In",      "verify_type": 0,      "verify_type_display": "Password",      "work_code": "",      "gps_location": "",      "area_alias": null,      "terminal_sn": "",      "temperature": 0.0,      "terminal_alias": null,      "upload_time": "2020-06-05 08:47:59"    },    .....  ]  }
```

Read

Request

- Method: GET
- Url: /iclock/api/transactions/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

Response

```
- **Url:** /iclock/api/transactions/1/{  "id": 1,  "emp_code": "1111111122",  "first_name": "",  "last_name": "",  "department": "Department",  "position": "Position",  "punch_time": "2020-06-05 00:00:00",  "punch_state": "0",  "punch_state_display": "Check In",  "verify_type": 0,  "verify_type_display": "Password",  "work_code": "",  "gps_location": "",  "area_alias": null,  "terminal_sn": "",  "temperature": 0.0,  "terminal_alias": null,  "upload_time": "2020-06-05 08:47:59"}
```

Delete

Request

- Method: DELETE
- Url: /iclock/api/transactions/{id}/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Path Parameters

Parameter	Description
id	required

Response

```
None
```

Export

Request

- Method: GET
- Url: /iclock/api/transactions/export/
- Headers:
 - Content-Type: application/json
 - Authorization: "JWT ey.....oQi98"
- Query Parameters

Parameter	Description
export_type	required, csv, txt, xls
page	Which page need export
page_size	How many data need export per page
emp_code	export this field
terminal_sn	export this field
terminal_alias	export this field
start_time	export time start of this field
end_time	export time end of this field

Response

```
response type: bytesb'id,em.....06-05 08:48:00\r\n'
```

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Transaction Report

Request

- **Method:** GET
- **Url:** /att/api/transactionReport/
- **Headers:**
 - **Content-Type:** application/json
 - **Authorization:** "JWT ey.....oQi98"
- **Query Parameters**

Parameter	Description
page	Which page is displayed
page_size	Show the number of data on this page
start_date	Use this field to query,example: ?start_date=2022-07-04
end_date	Use this field to query,example: ?end_date=2022-07-05
departments	Use this field to query,example: ?departments=1
areas	Use this field to query,example:?area=1