API USER MANUAL

BioTimeCloud

Version: **1.0**

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Contents

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API Description

BioTimeCloud API is dedicated to the platform data connection for the third-party system. The third-party system can read and set business data flexibly, which effectively reduces the complexity of the third-party system business integration and provides convenient, fast standard connection mode and data structure.

1. Get System User Auth Token

There are two kinds of auth token for software system user: JWT auth token and general auth token.

1.1 Get JWT Auth Token

(1) Request Instruction

HTTPS Method	POST
URI	/jwt-api-token-auth/
Content Type	application/json
Response Type	JSON
Parameter Description	email: string, is required, the username to login the system. password: string, is required, the password to login the system. company: string, is required, the registered company name to login the system.

Request Herders	{
	    "Content-Type":"application/json"
	}

Request Body	{
	    "email":"Email ID",
	    "password":"pwd"
	    "company":"company name"
	}

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(2) How to Get Token

1) Get token via BioTimeCloud URL, input the following

link in the browser:

https://CompanyName.biotimecloud.com/api/docs/#jwt-api-token-auth

CompanyName: Company Name created by the customer, such as: ABC

biotimecloud.com: The domain name of BioTimeCloud
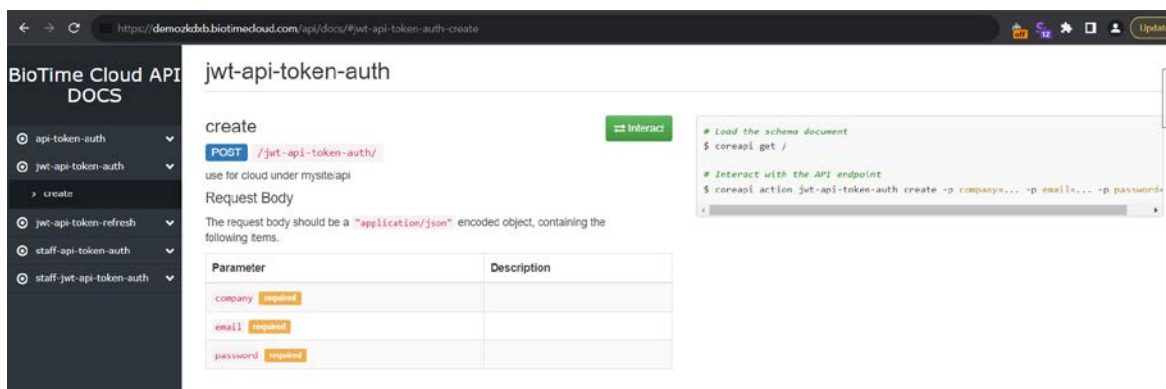
2) Get token via third-party, such as Postman.

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1.2 Get General auth token
(1) Request Instruction

Same as getting JWT Token

(2) How to Get Token

1)   Get token via browser, input the following link in the browser:

https://CompanyName.biotimecloud.com/api/docs/#api-token-auth

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2) **CompanyName**: Company Name created by the customer, such as: ABC

3) **biotimecloud.com**: The domain name of BioTimeCloud
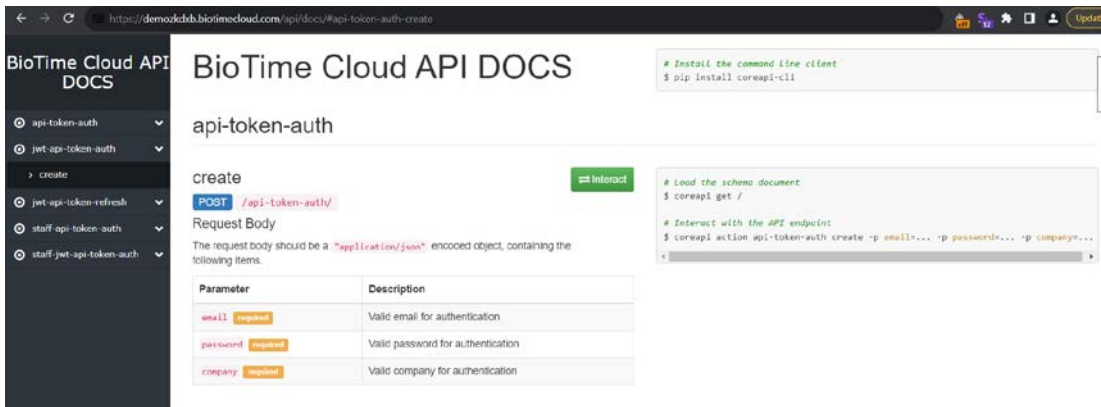
4) Get token via third-party API development tool, such as Postman.

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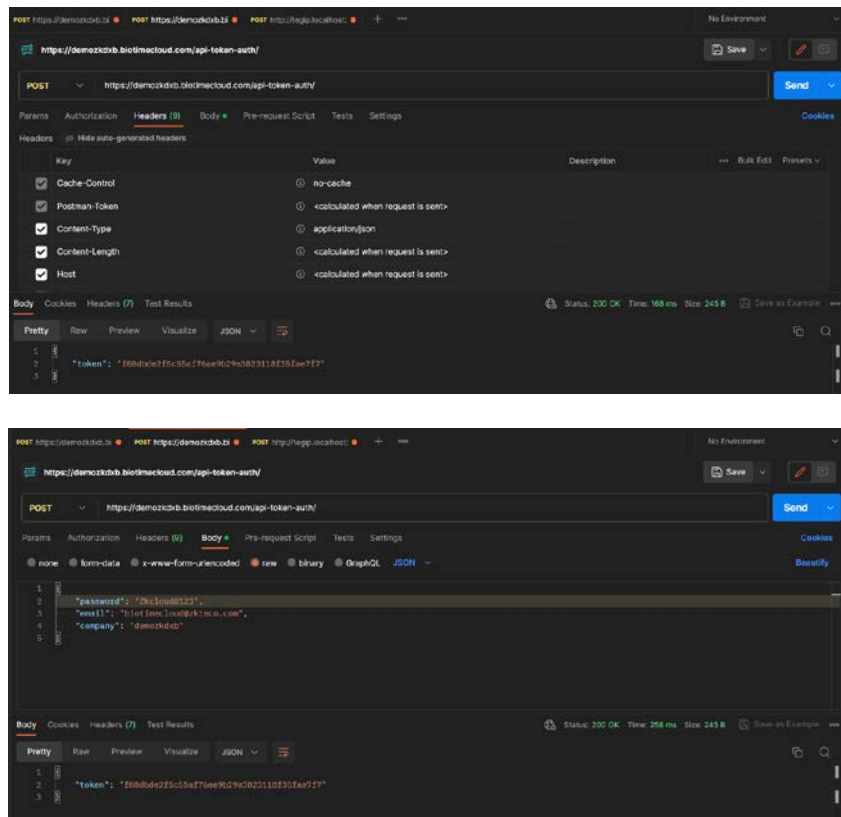
2. Get Staff Auth Token

2.1 Staff JWT auth token

URL: https://CompanyName.biotimecloud.com/staff-jwt-api-token-auth/

CompanyName: Company Name created by the customer, such as: ABC

biotimecloud.com: The domain name of BioTimeCloud

The way to get token is the same as JWT token above.

2.2 Get staff General Auth Token

URL: https://CompanyName.biotimecloud.com/staff-api-token-auth/

CompanyName: Company Name created by the customer, such as: ABC
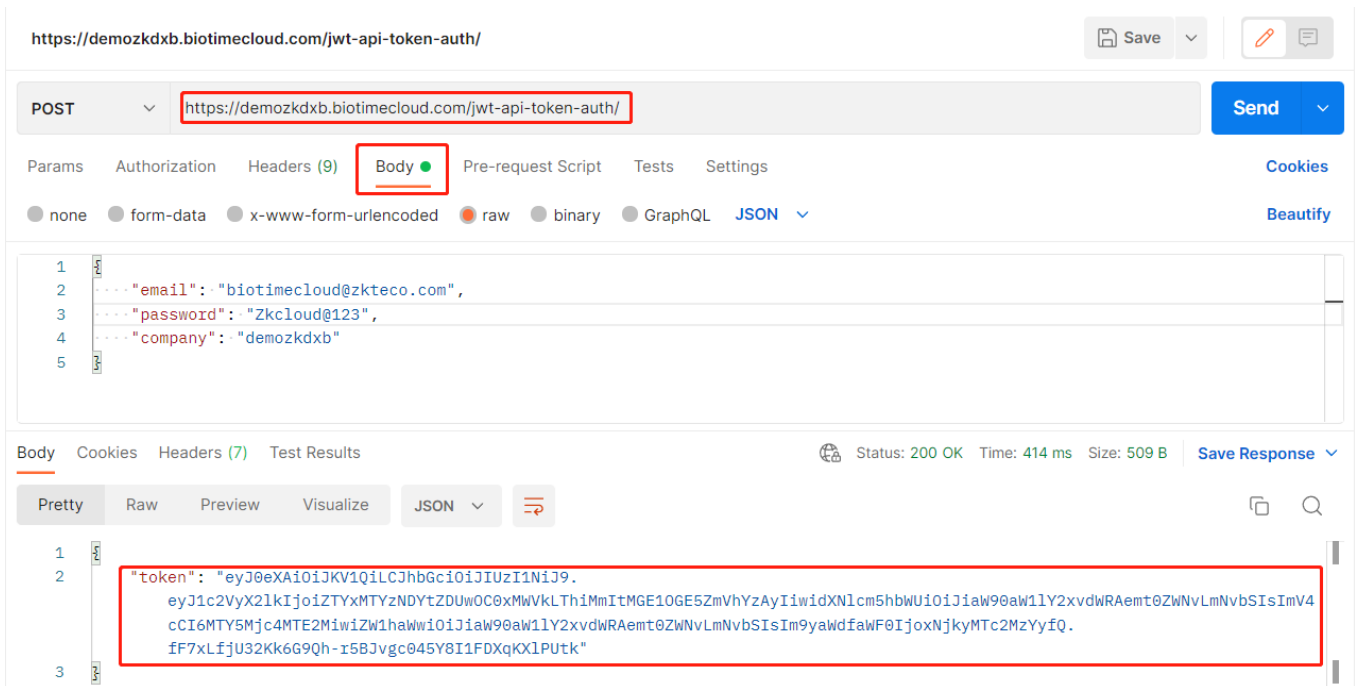
biotimecloud.com: The domain name of BioTimeCloud

The way to get token is the same as JWT token above.

3. Use Auth Token

3.1 Demo 1

Request URL	https://CompanyName.biotimecloud.com/iclock/api/terminals/

Request Herders	**JWT Token**
	
	{
	  "Content-Type":"application/json",
	  "Authorization":"JWT ey
	  .... oQi98
	  "
	}
	
	General Token
	
	{
	  "Content-Type":"application/json",
	  "Authorization":"Token
	ae600ca0f1d0aeed8af3f93c8530a69c714752b7"
	}

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Response Content	{
	"count": 0,
	"next": null,
	"previous": null,
	"msg": "",
	"code": 0,
	"results": [],
	"data": []
	}

3.2 Demo 2 (with Third Party Tool - Postman)

(1) Use General Token (same way to use JWT token)

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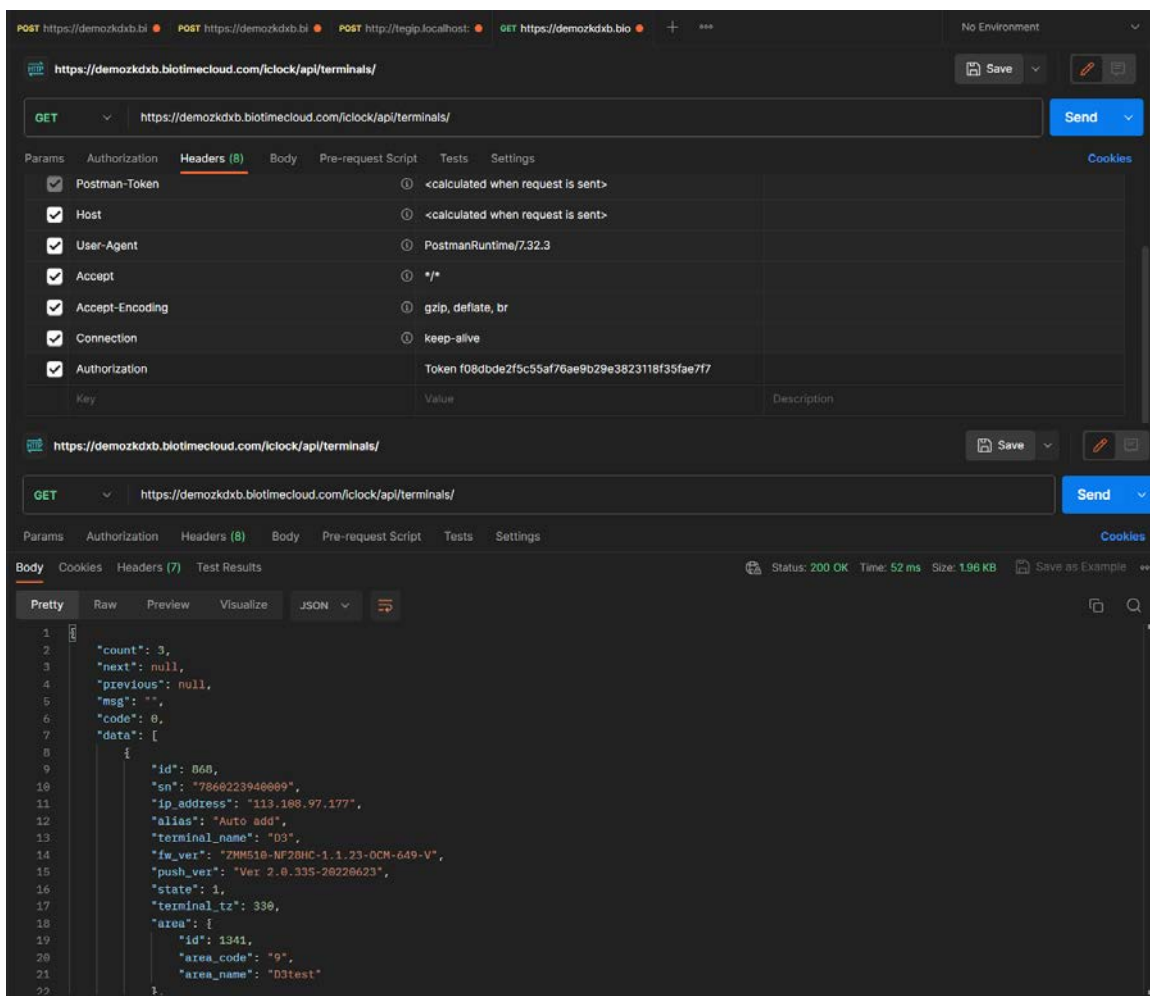
4. Device API

4.1 Get Device List API

HTTP Method	GET
URI	/iclock/api/terminals/
Data Type	application/json

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Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/iclock/api/terminals/?sn=**&page=**page_size=**&ali as=**&area=** sn, page, page_siz, alias , area are optional filter field, use & as connector While the request address without any filter field, you will get all devices list.

Response JSON Format	Example:
	
	Request Address:
	
	https://demozkdxb.biotimecloud.com/iclock/api/terminals/?sn=786022394009
	
	Response:
	
	{
	    "count": 1,
	    "next": null,
	    "previous": null,
	    "msg": "",
	    "code": 0,
	    "data": [
	      {
	        "id": 868,
	        "sn": "7860223940009",
	        "ip_address": "113.108.97.177",
	        "alias": "Auto add",
	        "terminal_name": "D3",
	        "fw_ver": "ZMM510-NF28HC-1.1.23-OCM-649-V",
	        "push_ver": "Ver 2.0.33S-20220623",
	        "state": 1,
	        "terminal_tz": 330,
	        "area": {
	          "id": 1341,
	          "area_code": "9",
	          "area_name": "D3test"
	        },
	        "last_activity": "2023-08-23 14:21:53",
	        "user_count": 0,

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```
            "fp_count": 0,

            "face_count": 0,

            "palm_count": 0,

            "transaction_count": 0,

            "push_time": "1901-01-01 00:00:00",

            "transfer_time": "00:00;14:05",

            "transfer_interval": 1,

            "is_attendance": 1,

            "area_name": "D3test",

            "company": {

                "id": "30489a74-d509-11ed-b426-0a58a9feac02",

                "name": "demozkdxb"

            }

        }

    ]

}
```

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4.2 Get Device Object Info API

HTTP Method	GET
URI	/iclock/api/terminals/ <id>/
Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/iclock/api/terminals/device id/

Response JSON Format	Example:
	Request Address:
	https://demozkdxb.biotimecloud.com/iclock/api/terminals/566/
	
	Response:
	
	{
	    "id": 566,
	    "sn": "CJPM214960015",
	    "ip_address": "113.108.97.177",
	    "alias": "Auto add",
	    "terminal_name": "G4L",
	    "fw_ver": "ZAM170-NF-Ver1.5.41",
	    "push_ver": "Ver 2.0.33S-20220623",
	    "state": 1,
	    "terminal_tz": 330,
	    "area": {
	        "id": 554,
	        "area_code": "5",
	        "area_name": "ZKT-KSA"
	    },
	    "last_activity": "2023-06-27 12:34:51",
	    "user_count": 0,
	    "fp_count": 0,
	    "face_count": 0,
	    "palm_count": 0,

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```
        "transaction_count": 0,

        "push_time": "1901-01-01 00:00:00",

        "transfer_time": "00:00;14:05",

        "transfer_interval": 1,

        "is_attendance": 1,

        "area_name": "ZKT-KSA",

        "company": {

            "id": "30489a74-d509-11ed-b426-0a58a9feac02",

            "name": "demozkdxb"

        }

    }
```

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5. Employee API

5.1 Get Employee List API

HTTP Method	GET
URI	/personnel/api/employees/
Data Type	application/json
Response Type	JSON

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Request Address	https://CompanyName.biotimecloud.com/personnel/api/employee/?emp_code=**&page=** &first_name=**&last_name=**&department=**&app_status=** page, limit, emp_code, first_name, last_name, department, app_status are optional filter fields.

Response JSON Format	Example:
	
	 Request Address:
	
	 https://demozkdxb.biotimecloud.com/personnel/api/employee/?emp_code=0123
	
	 Response:
	
	 {
	
	   "count": 1,
	
	   "next": null,
	
	   "previous": null,
	
	   "msg": "",
	
	   "code": 0,
	
	   "data": [
	
	     {
	
	       "id": "9661d55c-3b41-11ee-babe-0a58a9feac02",
	
	       "emp_code": "0123",
	
	       "first_name": "0123",
	
	       "last_name": null,
	
	       "hire_date": null,
	
	       "dept_name": "Department",
	
	       "department": 314,
	
	       "position": 308,
	
	       "position_name": "Position"
	
	     }

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```
    ]

}
```

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5.2 Get Employee Object Ifo API

HTTP Method	GET
URI	/personnel/api/employees/ <id>/
Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/personnel/api/employees/employee ID/

Response JSON Format	Example:
	
	Request Address:
	
	https://demozkdxb.biotimecloud.com/personnel/api/employees/a5cd9300-3b41-11ee-8228-0a58a9feac02/
	
	Response:
	
	{
	
	  "id": "a5cd9300-3b41-11ee-8228-0a58a9feac02",
	
	  "emp_code": "1230325",
	
	  "first_name": "",
	
	  "last_name": null,
	
	  "hire_date": null,
	
	  "dept_name": "Department",
	
	  "department": 314,
	
	  "position": 308,
	
	  "position_name": "Position"
	
	}

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5.3 Create Employee API

HTTP Method	POST
URI	/personnel/api/employees/
Data Type	application/json
Response Type	JSON
Request Parameter	Reference: https://CompanyName.biotimecloud.com/api/personnel_docs/#employees-create

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Request Address:

https://demozkdxb.biotimecloud.com/employees/

Request Body:

```
{
    "emp_code": "2",
    "first_name": "emp2_first_name",
    "last_name": "emp2_last_name",
    "department": 1,
    "mobile": "323232323",
    "email": "emp3@zk.com",
    "enable_att": true,
    "enable_overtime": false,
    "enable_holiday": true,
    "area": [1]
}
```

Response Data:

```
{
    "id": "3901d79a-4886-11ee-82d0-20c19bc69b33",
    "emp_code": "2",
    "first_name": "emp2_first_name",
    "last_name": "emp2_last_name",
    "nickname": null,
    "device_password": null,
    "card_no": null,
    "department": 1,
    "position": null,
    "hire_date": "2023-09-01",
    "gender": null,
    "birthday": null,
    "verify_mode": -1,
    "emp_type": null,
```

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```
    "contact_tel": null,
      "office_tel": null,
      "mobile": null,
      "national": null,
      "city": null,
      "address": null,
      "postcode": null,
      "email": "emp3@zk.com",
      "enroll_sn": "",
      "ssn": null,
      "religion": null,
      "enable_att": true,
      "enable_overtime": false,
      "enable_holiday": true,
      "dev_privilege": 0,
      "self_password":
"pbkdf2_sha256$36000$4s7tlic8mEdu$9Eb3VBeplY2dYZzUnN6PAhmUIM
/Enqg7g7+gouIbYLo=",
      "flow_role": [],
      "area": [
          1
      ],
      "app_status": 0,
      "app_role": 1
}
```

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5.4 Update Employee API

HTTP Method	PATCH
URI	/personnel/api/employees/ <id>/
Data Type	application/json
Response Type	JSON
Request Parameter	Reference: https://CompanyName.biotimecloud.com/api/personnel_docs/#employees-update

Response JSON Format	**Request Address:**
	
	https://demozkdxb.biotimecloud.com/personnel/api/employees/ 6/
	
	Resquest Body:
	
	{
	    "first_name": "emp3_first_name_update",
	    "last_name": "emp3_last_name_update",
	}
	
	Response Data:
	
	{
	"id": 6,
	    "emp_code": "employee333",
	    "first_name": "emp3_first_name_update",
	    "last_name":
	    "emp3_last_name_update", "nickname":
	    null,
	    "device_password": null,
	    "card_no": null,
	    "department": 1,
	    "position": null,
	    "hire_date": "2019-04-02",
	    "gender": null,
	    "birthday": null,
	    "verify_mode": -1,
	    "emp_type": null,

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"contact_tel": null,

"office_tel": null,

"mobile": null,

"national": null,

"city": null,

"address": null,

"postcode": null,

"email": null,

"enroll_sn": null,

"ssn": null,

"religion": null,

"enable_att": true,

"enable_overtime": false,

"enable_holiday": true,

"dev_privilege": 1,

"self_password": "pbkdf2_sha256$36000$XBVRNMOywdNI$P4W7MlZVa3Ho2VBdU2SewS/pb8 GavBYSGBXM/bgL+N0=",

"flow_role": [],

"area": [

1

],

"app_status": 0,

"app_role": 1

}

}

5.5 Delete Employee API

HTTP Method	DELETE
URI	/personnel/api/employees/<id>/
Data Type	application/json

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Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/personnel/api/employees/6/

6. Department API

6.1 Get Department List API

HTTP Method	GET
URI	/personnel/api/departments/
Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/personnel/api/departments/?dept_code=**&page =**&dept_code=**&dept_name=**&parent_dept=** page, limit, dept_code, dept_name, parent_dept are optional filter fields.

Response JSON Format	**Request address:** https://demozkdxb.biotimecloud.com/personnel/api/departments/?dept_code=1
	
	Response JSON format:
	
	`{`
	`    "count": 1,`
	`    "next": null,`
	`    "previous": null,`
	`    "msg": "",`
	`    "code": 0,`
	`    "data": [`
	`        {`
	`            "id": 2,`
	`            "dept_code": "1",`
	`            "dept_name": "Department",`
	`            "parent_dept": null,`
	`            "parent_dept_name": null,`
	`            "company": {`
	`                "id": "3416d9ec-1c8c-11ee-9abf-20c19bc69b33",`
	`                "name": "tegip"`
	`            }`
	`        }`
	`    ]`
	`}`

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6.2 Get Department Object Info API

HTTP Method	GET
URI	/personnel/api/departments/<id>/
Data Type	application/json
Response Type	JSON

Response JSON Format	**Request Address:**
	https://CompanyName.biotimecloud.com/personnel/api/departments/2/
	
	Response Body:
	{
	  "id": 2,
	  "dept_code": "1",
	  "dept_name": "Department",
	  "parent_dept": null,
	  "parent_dept_name": null,
	  "company": {
	    "id": "3416d9ec-1c8c-11ee-9abf-20c19bc69b33",
	    "name": "tegip"
	  }
	}

6.3 Create Department API

HTTP Method	POST
URI	/personnel/api/departments/
Data Type	application/json
Response Type	JSON
Request Parameter	Reference: https://CompanyName.biotimecloud.com/api/personnel_docs/#departments-create

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Response JSON Format	**Request Address**
	https://demozkdxb.biotimecloud.com/biotimecloud.com/personnel/api/departments/
	
	Request Body
	{
	    "dept_code": "222",
	    "dept_name": "Department222",
	    "parent_dept": null
	}

	Response Data
	{
	  "id": 4,
	  "dept_code": "222",
	  "dept_name": "Department222",
	  "parent_dept": null
	}

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6.4 Update Department API

HTTP Method	PATCH
URI	/personnel/api/departments/ <id>/
Data Type	application/json
Response Type	JSON
Request Parameter	Reference: https://CompanyName.biotimecloud.com/api/personnel_docs/#departments-update

Response JSON Format	**Request Address** https://demozkdxb.biotimecloud.com/biotimecloud.com/personnel/api/departments/4/
	
	 Resquest Body
	 {
	     "dept_name": "Department222_update"
	 }
	
	 Response Data
	 {
	   "id": 4,
	   "dept_code": "222",
	   "dept_name": "Department222_update",
	   "parent_dept": null
	 }

6.5 Delete Department API

HTTP Method	DELETE
URI	/personnel/api/departments/<id>/

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Data Type	application/json
Response Type	JSON

Response JSON Format	**Request Address:**
	
	https://CompanyName.biotimecloud.com/personnel/api/departments/4/
	
	Resquest Body:
	
	{}
	
	Response Data
	
	{
	   "message": "deleted"
	}

7. Area API

7.1 Get Area List API

HTTP Method	GET
URI	/personnel/api/areas/
Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/personnel/api/areas/?area_code=**&page=**&are a_code=**&area_name=**&parent_area=** page, limit, area_code, area_name, parent_area are optional filter fields.

	Request address:
	https://demozkdxb.biotimecloud.com/personnel/api/areas/?area_code=2/
	
	Response JSON format:
	{
	  "count": 1,
	  "next": null,
	  "previous": null,
	  "msg": "",
	  "code": 0,
	  "data": [
	     {

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Response JSON Format

```
            "id": 513,
            "area_code": "2",
            "area_name": "Mureijah",
            "parent_area": null,
            "company": {
                "id": "30489a74-d509-11ed-b426-0a58a9feac02",
                "name": "demozkdxb"
            }
        }
    ]
}
```

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7.2 Get Area Object Info API

HTTP Method	GET
URI	/personnel/api/areas/<id>/
Data Type	application/json
Response Type	JSON

Response JSON Format	**Request address:**
	https://demozkdxb.biotimecloud.com/personnel/api/areas/513/
	
	Response JSON format:
	
	{
	   "id": 513,
	   "area_code": "2",
	   "area_name": "Mureijah",
	   "parent_area": null,
	   "company": {
	      "id": "30489a74-d509-11ed-b426-0a58a9feac02",
	      "name": "demozkdxb"
	   }
	}

7.3 Create Area API

HTTP Method	POST
URI	/personnel/api/areas/
Data Type	application/json
Response Type	JSON
Request Parameter	Reference: https://CompanyName.biotimecloud.com/api/personnel_docs/#areas-create
Response JSON Format	**Request Address** https://demozkdxb.biotimecloud.com/personnel/api/areas/ **Request Body** { "area_code": "222",

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```
        "area_name": "Department222",
        "parent_area": 1
}
```

Response Data
```
{
"id": 2,
        "area_code": "222",
        "area_name": "Department222",
        "parent_area": 1
}
```

7.4 Update Area API

HTTP Method	PATCH
URI	/personnel/api/areas/ <id>/
Data Type	application/json
Response Type	JSON
Request Parameter	Reference: https://CompanyName.biotimecloud.com/api/personnel_docs/#areas-update

Response JSON Format	**Request Address** https://demozkdxb.biotimecloud.com/personnel/api/areas/2/
	
	Resquest Body
	`{`
	`        "area_name": "Area222_update"`
	`}`
	
	Response Data
	`{`
	`        "id": 2,`
	`        "area_code": "222",`
	`        "area_name": "area222_update",`
	`        "parent_area": 1`
	`}`

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7.5 Delete Area API

HTTP Method	DELETE
URI	/personnel/api/areas/<id>/
Data Type	application/json
Response Type	JSON
Response JSON Format	**Request Address:** https://demozkdxb.biotimecloud.com/personnel/api/ areas/2/ **Resquest Body:** {}

8.   Position API

8.1   Get Position List API

HTTP Method	GET
URI	/personnel/api/positions/
Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/personnel/api/positions/?position_code=**&page= **&position_code=**&position_name=**&parent_position=** page, limit, position_code, position_name, parent_position are optional filter fields.

Response JSON Format	**Request address:**
	https://demozkdxb.biotimecloud.com/personnel/api/positions/?position_code=1
	
	Response JSON format:
	
	{
	   "count": 1,
	   "next": null,
	   "previous": null,
	   "msg": "",
	   "code": 0,
	   "data": [
	     {
	
	     "id": 2,

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```
              "position_code": "1",
              "position_name": "Position",
              "parent_position": null,
              "parent_position_name": null,
              "company": {
                 "id": "3416d9ec-1c8c-11ee-9abf-20c19bc69b33",
                 "name": "tegip"
              }
            }
          ]
        }
```

8.2 Get Position Object Info API

HTTP Method	GET
URI	/personnel/api/positions/<id>/
Data Type	application/json
Response Type	JSON

Response JSON Format	**Request Address:**
	https://demozkdxb.biotimecloud.com/personnel/api/positions/1/
	
	Request Body:
	{
	    "id": 1,
	    "position_code": "1",
	    "position_name": "Position",
	    "parent_position": null,
	    "parent_position_name": null,
	    "company": {
	       "id": "30489a74-d509-11ed-b426-0a58a9feac02",
	       "name": "demozkdxb"
	    }
	}

8.3 Create Position API

HTTP Method	POST
URI	/personnel/api/positions/
Data Type	application/json
Response Type	JSON
Request Parameter	Reference: https://CompanyName.biotimecloud.com/api/personnel_docs/#positions-

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	create

Response JSON Format	**Request Address**
	https://demozkdxb.biotimecloud.com/personnel/api/positions/
	
	Request Body
	{
	    "position_code": "222",
	    "position_name": "Position222",
	    "parent_position": 1
	}
	
	Response Data
	{
	"id": 2,
	    "position_code": "222",
	    "position_name": "Position222",
	    "parent_position": 1
	
	}

8.4 Update Position API

HTTP Method	PATCH
URI	/personnel/api/positions/ <id>/
Data Type	application/json
Response Type	JSON
Request Parameter	Reference: https://CompanyName.biotimecloud.com/api/personnel_docs/#positions-update

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Response JSON Format	**Request Address**
	https://demozkdxb.biotimecloud.com/personnel/api/positions/2/
	
	Resquest Body
	{
	    "position_name": "Position222_update"
	}
	
	Response Data
	{
	    "id": 2,
	    "position_code": "222",
	    "position_name": "Position222_update",
	    "parent_position": 1
	}
	}

8.5 Delete Position API

HTTP Method	DELETE
URI	/personnel/api/positions/<id>/
Data Type	application/json
Response Type	JSON
Response JSON Format	**Request Address:** https://demozkdxb.biotimecloud.com/personnel/api/positions/2/ **Resquest Body:** {}

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9. Transaction API

9.1 GetTransaction List API

HTTP Method	GET
URI	/iclock/api/transactions/
Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/iclock/api/transactions/?emp_code=**&start_time=**&end_time=** page , page_size, emp_code, terminal_sn, start_time, end_time are optional filter fields.

Response JSON Format	**Request Address:**
	 https://demozkdxb.biotimecloud.com/iclock/api/transactions/?emp_code=2&start%20_time=2022-01-01%2000:00:00&end_time=2023-09-1%2000:00:00
	
	 Response JSON format:
	 {
	     "count": 3,
	     "next": null,
	     "previous": null,
	     "msg": "",
	     "code": 0,
	     "data": [{
	         "id": 1042135,
	         "emp_code": "2",
	         "punch_time": "2023-07-26 11:18:50",
	         "punch_state": "255",
	         "verify_type": 4,
	         "work_code": "0",
	         "terminal_sn": "7860223940009",
	         "terminal_alias": "D3",
	         "area_alias": "zhangliu",
	         "longitude": null,
	         "latitude": null,
	         "gps_location": null,
	         "mobile": null,
	         "source": 1,
	         "purpose": 9,
	         "crc": "0",
	         "is_attendance": null,
	         "reserved": null,
	         "upload_time": "2023-07-26 07:18:49",
	         "sync_status": null,
	         "sync_time": null,

```
                                                   "temperature": null,
                                                   "mask_flag": null,
                                                   "company": "30489a74-d509-11ed-b426-
0a58a9feac02",
                                                   "emp": "9bdab3dc-3b41-11ee-97de-0a58a9feac02",
                                                   "terminal": null
                          },
                          {
                                                   "id": 1042148,
                                                   "emp_code": "2",
                                                   "punch_time": "2023-07-26 11:33:16",
                                                   "punch_state": "255",
                                                   "verify_type": 4,
                                                   "work_code": "0",
                                                   "terminal_sn": "7860223940009",
                                                   "terminal_alias": "D3",
                                                   "area_alias": "zhangliu",
                                                   "longitude": null,
                                                   "latitude": null,
                                                   "gps_location": null,
                                                   "mobile": null,
                                                   "source": 1,
                                                   "purpose": 9,
                                                   "crc": "0",
                                                   "is_attendance": null,
                                                   "reserved": null,
                                                   "upload_time": "2023-07-26 07:33:14",
                                                   "sync_status": null,
                                                   "sync_time": null,
                                                   "temperature": null,
                                                   "mask_flag": null,
                                                   "company": "30489a74-d509-11ed-b426-
0a58a9feac02",
                                                   "emp": "9bdab3dc-3b41-11ee-97de-0a58a9feac02",
                                                   "terminal": null
                          },
                          {
                                                   "id": 1130791,
                                                   "emp_code": "2",
                                                   "punch_time": "2022-11-24 10:36:58",
                                                   "punch_state": "255",
                                                   "verify_type": 1,
                                                   "work_code": "0",
                                                   "terminal_sn": "8116220860031",
                                                   "terminal_alias": "Auto add",
                                                   "area_alias": "TEST",
                                                   "longitude": null,
                                                   "latitude": null,
                                                   "gps_location": null,
                                                   "mobile": null,
                                                   "source": 1,
                                                   "purpose": 9,
```

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                                              "crc": "0",
                                              "is_attendance": null,
                                              "reserved": null,
                                              "upload_time": "2023-08-15 11:59:14",
                                              "sync_status": null,
                                              "sync_time": null,
                                              "temperature": null,
                                              "mask_flag": null,
                                              "company": "30489a74-d509-11ed-b426-
                0a58a9feac02",

                                              "emp": "9bdab3dc-3b41-11ee-97de-0a58a9feac02",
                                              "terminal": 830
                                    }
                          ]
                }

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5. Att API

Get Total Time Card Report

HTTP Method	GET
URI	/att/api/totalTimeCardReport/

Request Herders	**JWT Token**
	
	{
	  "Content-Type":"application/json",
	  "Authorization":"JWT ey .....oQi98"
	}

Request Parameters	?page=1&page_size=20&start_date=2021-09-01&end_date=2021-09-27&departments=1&employees=-1 * departments // id of the department, -1 means not filter by employe * employees // id of the employee, -1 means not filter by department
Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/att/api/totalTimeCardReport/

Response JSON Format	Example:
	
	Request:
	
	https://demozkdxb.biotimecloud.com/att/api/totalTimeCardReport/?page=1&page_size=20&start_date=2023-08-01&end_date=2023-08-27
	
	Response:
	
	{
	"count": 116,
	"next": null,
	"previous": null,
	"msg": "",
	"code": 0,
	"data": [{
	    "uuid": "581e3d77-cce4-4cc1-8768-cad99b81c59f",
	    "emp_code": "13039",
	    "first_name": "Ahmed Abdelhamid",
	    "last_name": null,
	    "nick_name": null,
	    "gender": null,
	    "dept_code": "2",
	    "dept_name": "Naham",
	    "position_code": "1",
	    "position_name": "Position",
	    "att_date": "01-07-2023",

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```
                                    "weekday": "Saturday",
                                    "att_exception": "",
                                    "timetable": "General Time Table",
                                    "check_in": "09:00",
                                    "check_out": "18:00",
                                    "clock_in": "",
                                    "clock_out": "",
                                    "total_time": "",
                                    "duty_wt": "",
                                    "actual_wt": "",
                                    "unscheduled": "",
                                    "total_worked": "",
                                    "duration": "09:00",
                                    "duty_duration": "09:00",
                                    "break_out": "",
                                    "break_in": "",
                                    "break_duration": "",
                                    "actual_break": "",
                                    "taken_break": "",
                                    "break_late": "",
                                    "break_early": "",
                                    "break_absent": "",
                                    "late": "",
                                    "early_leave": "",
                                    "absent": "09:00",
                                    "work_day": "1.0",
                                    "remaining": "09:00",
                                    "leave": "",
                                    "normal_wt": "",
                                    "normal_ot": null,
                                    "weekend_ot": null,
                                    "holiday_ot": null,
                                    "ot_lv1": "",
                                    "ot_lv2": "",
                                    "ot_lv3": "",
                                    "attendance_status": "Absence(A)"
                        },
                        {
                                    "uuid": "e8da9705-4b82-4bbc-8c68-ebbdb97bc38d",
                                    "emp_code": "13039",
                                    "first_name": "Ahmed Abdelhamid",
                                    "last_name": null,
                                    "nick_name": null,
                                    "gender": null,
                                    "dept_code": "2",
                                    "dept_name": "Naham",
                                    "position_code": "1",
                                    "position_name": "Position",
                                    "att_date": "04-07-2023",
                                    "weekday": "Tuesday",
                                    "att_exception": "",
                                    "timetable": "General Time Table",
                                    "check_in": "09:00",
                                    "check_out": "18:00",
                                    "clock_in": "",
                                    "clock_out": "",
```

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```
                                        "total_time": "",
                                        "duty_wt": "",
                                        "actual_wt": "",
                                        "unscheduled": "",
                                        "total_worked": "",
                                        "duration": "09:00",
                                        "duty_duration": "09:00",
                                        "break_out": "",
                                        "break_in": "",
                                        "break_duration": "",
                                        "actual_break": "",
                                        "taken_break": "",
                                        "break_late": "",
                                        "break_early": "",
                                        "break_absent": "",
                                        "late": "",
                                        "early_leave": "",
                                        "absent": "09:00",
                                        "work_day": "1.0",
                                        "remaining": "09:00",
                                        "leave": "",
                                        "normal_wt": "",
                                        "normal_ot": null,
                                        "weekend_ot": null,
                                        "holiday_ot": null,
                                        "ot_lv1": "",
                                        "ot_lv2": "",
                                        "ot_lv3": "",
                                        "attendance_status": "Absence(A)"
                                },
                                {
                                        "uuid": "fe817628-f5ad-4bc8-bc74-43c9835bf523",
                                        "emp_code": "13039",
                                        "first_name": "Ahmed Abdelhamid",
                                        "last_name": null,
                                        "nick_name": null,
                                        "gender": null,
                                        "dept_code": "2",
                                        "dept_name": "Naham",
                                        "position_code": "1",
                                        "position_name": "Position",
                                        "att_date": "06-07-2023",
                                        "weekday": "Thursday",
                                        "att_exception": "",
                                        "timetable": "General Time Table",
                                        "check_in": "09:00",
                                        "check_out": "18:00",
                                        "clock_in": "",
                                        "clock_out": "",
                                        "total_time": "",
                                        "duty_wt": "",
                                        "actual_wt": "",
                                        "unscheduled": "",
                                        "total_worked": "",
                                        "duration": "09:00",
                                        "duty_duration": "09:00",
```

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```
                                        "break_out": "",
                                        "break_in": "",
                                        "break_duration": "",
                                        "actual_break": "",
                                        "taken_break": "",
                                        "break_late": "",
                                        "break_early": "",
                                        "break_absent": "",
                                        "late": "",
                                        "early_leave": "",
                                        "absent": "09:00",
                                        "work_day": "1.0",
                                        "remaining": "09:00",
                                        "leave": "",
                                        "normal_wt": "",
                                        "normal_ot": null,
                                        "weekend_ot": null,
                                        "holiday_ot": null,
                                        "ot_lv1": "",
                                        "ot_lv2": "",
                                        "ot_lv3": "",
                                        "attendance_status": "Absence(A)"
                                }
                        ]
                }
```

6. Mobile App API

6.1 Login

HTTPS Method	POST
URI	/mobile/api/v1.0/auth_token/
Content Type	application/json
Response Type	JSON
Parameter Description	username: string, is required, the username to login the system. password: string, is required, the password to login the system.

Request Herders	{
	   "Content-Type":"application/json",
	   "Client": "963D5......60D"
	}

Request Body	{
	   "username":"username",
	   "password":"pwd"
	}

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Request Address	https://demozkdxb.biotimecloud.com/mobile/api/v1.0/auth_token/

Response JSON Format	Response:
	
	{
	  "token": "eyJ0eXAiOiJK......dNPE5gxwAKr0",
	  "status_code": 200,
	  "message": []
	}

6.2 Get App Settings

HTTP Method	GET
URI	/mobile/api/v1.0/configurations/app_settings/

Request Herders	**JWT Token**
	
	{
	  "Content-Type":"application/json",
	  "Authorization":
	  "JWT eyJ0eXAiOiJK......dNPE5gxwAKr0"
	}

Data Type	application/json
Response Type	JSON
Request Address	https://demozkdxb.biotimecloud.com/mobile/api/v1.0/app_settings/

Response JSON Format	Response:
	
	{
	  "server_name": "",
	  "emp_id": "7e01c4ac-459d-11ee-9ef1-0a58a9feac02",
	  "emp_code": "13",
	  "name": "Alex",
	  "photo": "",
	  "department": "Department",
	  "position": "Position",
	  "area": "ZKT-UAE",

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        "app_role": 1,

        "ts_email": "softwaresupport@zkteco.com",

        "website": "https://www.zkteco.in/",

        "copyright": "Copyright ©2020 ZKTECO CO.,LTD.\nAll rights reserved.",

        "status_code": 200,

        "message": []

    }

6.3 Get User Proile

HTTP Method	GET
URI	/mobile/api/v1.0/employees/

Request Herders	JWT Token
	{
	"Content-Type":"application/json", "Authorization":
	"JWT eyJ0eXAiOiJK......dNPE5gxwAKr0"
	}

Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/mobile/api/v1.0/employees/9661d55c-3b41-11ee-babe-0a58a9feac02/ (get the employee whose id is 9661d55c-3b41-11ee-babe-0a58a9feac02) Or https://CompanyName.biotimecloud.com/mobile/api/v1.0/employees/ (get all the employees)

Response JSON Format	Response:
	{
	  "id": "9661d55c-3b41-11ee-babe-0a58a9feac02",
	  "emp_code": "0123",
	  "first_name": "0123",
	  "email": "0123_demozkdxb@demoz.com",
	  "photo": "",
	  "department_name": "Department",
	  "position_name": "Position",
	  "status_code": 200,
	  "message": []
	}
	Or
	{
	        "count": 39,
	        "next": "http://demozkdxb.biotimecloud.com/mobile/api/v1.0/employees/?page=2",
	        "previous": null,
	        "results": [{
	                "id": "9661d55c-3b41-11ee-babe-0a58a9feac02",
	                "emp_code": "0123",
	                "first_name": "0123",

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```
                                        "email": "0123_demozkdxb@demoz.com",
                                        "photo": "",
                                        "department_name": "Department",
                                        "position_name": "Position"
                        },
                        {
                                        "id": "a46c224c-3b41-11ee-8228-0a58a9feac02",
                                        "emp_code": "10001",
                                        "first_name": "NNP",
                                        "email": "10001_demozkdxb@demoz.com",
                                        "photo": "",
                                        "department_name": "Department",
                                        "position_name": "Position"
                        },
                        {
                                        "id": "98900910-141e-11ee-ba35-0a58a9feac02",
                                        "emp_code": "106",
                                        "first_name": "Shilpa",
                                        "email": "vince.dubai@zkteco.com",
                                        "photo":
        "/files/photo/30489a74d50911edb4260a58a9feac02/106.jpg",
                                        "department_name": "Naham",
                                        "position_name": "Position"
                        },
                                        ......
                        {
                                        "id": "7e01c4ac-459d-11ee-9ef1-0a58a9feac02",
                                        "emp_code": "13",
                                        "first_name": "Alex",
                                        "email": "fofadoc499@stypedia.com",
                                        "photo": "",
                                        "department_name": "Department",
                                        "position_name": "Position"
                        },
                        {
                                        "id": "1a6f30e4-140d-11ee-b101-0a58a9feac02",
                                        "emp_code": "13039",
                                        "first_name": "Ahmed Abdelhamid",
                                        "email": "Engineer13039@gmail.com",
                                        "photo": "",
                                        "department_name": "Naham",
                                        "position_name": "Position"
                        },
                ],
                "status_code": 200,
                "message": []
        }
```

6.4 Clock In

HTTP Method	POST&GET
URI	/mobile/api/v1.0/transactions/
Request Herders	**JWT Token** { "Content-Type":"application/json",

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	"Authorization": "JWT eyJ0eXAiOiJK......dNPE5gxwAKr0" }
Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/mobile/api/v1.0/transactions/

Request Body	{
	    "latitude": "25.0916434",
	    "longitude": "55.1586873",
	    "punch_state": "0",
	    "source": 3,
	    "emp_code": "14",
	    "terminal_sn": "App",
	    "gps_location": "35R5+JCW - Al Sufouh - Dubai Internet City - Dubai - United Arab Emirates"
	 }
	
	 Response:
	 {
	    "latitude": "25.0916434",
	    "longitude": "55.1586873",
	    "punch_state": "0",
	    "source": 3,
	    "emp_code": "13",
	    "terminal_sn": "App",
	    "gps_location": "35R5+JCW - Al Sufouh - Dubai Internet City - Dubai - United Arab Emirates",
	    "emp_id": "7e01c4ac-459d-11ee-9ef1-0a58a9feac02",
	    "punch_time": "2023-09-01 15:34:13",
	    "upload_time": "2023-09-01T15:34:13.347559",
	    "status_code": 201,
	    "message": []
	 }

	HTTP METHOD GET: **Response:**

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Response JSON Format

```
{
    "count": 405,
    "next":
"http://demozkdxb.biotimecloud.com/mobile/api/v1.0/transactions/?page=2",
    "previous": null,
    "results": [{
        "emp_code": "13",
        "punch_date": 1693526400,
        "punch_time": 1693582142,
        "punch_state": "0",
        "source": 3,
        "description": "35R5+JCW - Al Sufouh - Dubai Internet City -
Dubai - United Arab Emirates",
        "gps_location": "35R5+JCW - Al Sufouh - Dubai Internet City
- Dubai - United Arab Emirates",
        "terminal_sn": "App"
    },
    {
        "emp_code": "13",
        "punch_date": 1693526400,
        "punch_time": 1693582059,
        "punch_state": "0",
        "source": 3,
        "description": "35R5+JCW - Al Sufouh - Dubai Internet City -
Dubai - United Arab Emirates",
        "gps_location": "35R5+JCW - Al Sufouh - Dubai Internet City
- Dubai - United Arab Emirates",
        "terminal_sn": "App"
    },
                            .................
    {
        "emp_code": "1",
        "punch_date": 1691625600,
        "punch_time": 1691660238,
        "punch_state": "255",
```

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```
                              "source": 1,

                              "description": "Auto add",

                              "gps_location": null,

                              "terminal_sn": "7860223940009"

                    }

            ],

            "status_code": 200,

            "message": []

    }
```

6.5 Manual Log

HTTP Method	POST
URI	/mobile/api/v1.0/employees/1/manual_logs/

Request Herders	**JWT Token**
	
	{
	  "Content-Type":"application/json",
	  "Authorization":
	  "JWT eyJ0eXAiOiJK......dNPE5gxwAKr0"
	}

Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/mobile/api/v1.0/employees/1/manual_logs/

Request Body	{
	    "punch_time":"1693568322",
	    "punch_state":"0",
	    "work_code":null,
	    "apply_reason":null
	}

Response JSON Format	**Response**:
	
	{
	
	    "punch_time": "1693568322",
	
	    "apply_reason": null,
	
	    "punch_state": 0,
	
	    "work_code": null,

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```
        "id": 2733,

        "status_code": 201,

        "message": []

    }
```

6.6 Get Employee Summary Report

HTTP Method	GET
URI	/mobile/api/v1.0/employees/{emp_id}/{summary_type}/
	summary_type:weekly_summary, monthly_summary

Request Herders	**JWT Token**
	
	{
	  "Content-Type":"application/json",
	  "Authorization":
	   "JWT eyJ0eXAiOiJK......dNPE5gxwAKr0"
	}

Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/mobile/api/v1.0/employees/1/weekly_summary/

Response JSON Format	Response:
	
	{
	"late": 2,
	  "early_out": 0,
	  "absent": 1,
	  "leave": 1,
	  "overtime": 0
	}

6.7 Get Attendance Report

HTTP Method	GET
URI	/mobile/api/v1.0/total_time_cards/page_data/
Request Herders	**JWT Token**

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```
{
  "Content-Type":"application/json",
  "Authorization":
  "JWT eyJ0eXAiOiJK......dNPE5gxwAKr0"
}
```

Data Type	application/json
Parameter Description	page,page_size,start_date, end_date employees:the id of the employee, departments:the id of the department
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/mobile/api/v1.0/total_time_cards/page_data/?page=1&page_size=20&start_date=2021-10-01&end_date=2021-10-15&employees=2&departments=

Response JSON Format	Response:
	
	{
	"count": 1,
	"next": null,
	"previous": null,
	"msg": "",
	"code": 0,
	"data": [
	  {
	    "id": "398ebe65-1a88-4fef-81c3-8814501249c8",
	    "emp_code": "2",
	    "first_name": "emp2",
	    "last_name": null,
	    "nick_name": null,
	    "gender": null,
	    "dept_code": "1",
	    "dept_name": "Project",
	    "position_code": null,
	    "position_name": null,
	    "att_date": "2021-10-14",
	    "weekday": "Thursday",
	    "time_table_alias": "",

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```
    "check_in": "00:00",

    "check_out": "00:00",

    "work_day": "0.0",

    "clock_in": "",

    "clock_out": "",

    "break_out": "",

    "break_in": "",

    "duration": "12:00",

      .........

    "paycode_15": "0.0",

    "paycode_16": "0.0"

  }

 ]

}
```

6.8 Manual Logs

HTTP Method	GET
URI	/mobile/api/v1.0/manual_logs/

Request Herders	**JWT Token**
	{
	  "Content-Type":"application/json",
	  "Authorization":
	  "JWT eyJ0eXAiOiJK......dNPE5gxwAKr0"
	}

Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/mobile/api/v1.0/manual_logs/
Response JSON Format	**Example:** https://demozkdxb.biotimecloud.com/mobile/api/v1.0/manual_logs/ **Response:** {

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```
          "count": 2,
          "next": null,
          "previous": null,
          "results": [
            {
                "id": 2736,
                "audit_status": 2,
                "revoke_reason": null,
                "punch_time": "2023-09-01 16:40:56",
                "punch_state": 0,
                "work_code": "",
                "apply_reason": "",
                "apply_time": "2023-09-01 16:40:56",
                "audit_reason": "",
                "audit_time": "2023-09-01 16:41:02",
                "approval_level": null,
                "audit_user_id": null,
                "approver": "biotimecloud@zkteco.com",
                "company": "30489a74-d509-11ed-b426-0a58a9feac02",
                "employee": "7e01c4ac-459d-11ee-9ef1-0a58a9feac02"
            },
            {
                "id": 2737,
                "audit_status": 1,
                "revoke_reason": null,
                "punch_time": "2023-09-01 16:41:28",
                "punch_state": 1,
                "work_code": "",
                "apply_reason": "",
                "apply_time": "2023-09-01 16:41:28",
                "audit_reason": null,
                "audit_time": null,
                "approval_level": null,
                "audit_user_id": null,
                "approver": null,
```

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```
                            "company": "30489a74-d509-11ed-b426-0a58a9feac02",

                            "employee": "7e01c4ac-459d-11ee-9ef1-0a58a9feac02"

                        }
                    ],
                    "status_code": 200,

                    "message": []
                }
```

6.9 Reset Password

HTTP Method	POST
URI	/mobile/api/v1.0/reset_password/

Request Herders	**JWT Token**
	
	{
	  "Content-Type":"application/json",
	  "Authorization":
	  "JWT eyJ0eXAiOiJK......dNPE5gxwAKr0"
	}

Data Type	application/json
Response Type	JSON
Request Address	https://CompanyName.biotimecloud.com/mobile/api/v1.0/reset_password/

Request Body	{
	  "email": "softwaresupport@zkteco.com"
	}

http://joxejom.localhost:8000/mobile/api/v1.0/forgot_password_create_otp/
http://joxejom.localhost:8000/mobile/api/v1.0/create_password/
http://joxejom.localhost:8000/mobile/api/v1.0/employees/14/exception_summary/?start_date=2023-06-25&end_date=2023-09-1/
http://joxejom.localhost:8000/mobile/api/v1.0/employees/14/reset_password/

BODY

Request body:
search_item = email (required/ type: string)
is_cloud = "true" (required/type: string)

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company_name = "zkteco" (type:string)
client =   (required/type:string)
language =   (type: string)

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For any clarifications regarding the API User Manual, please contact us through e-mail at softwaresupport@zkteco.com.