

---

Smart Office API Documentation

Version 1.0.4



Apr , 05 2022

---

# CONTENTS

---

## 1. Overview

- a. Prerequisites
- b. Support

## 2. Interface Specifications

- a. API Request
- b. API Response
- c. API Exception

## 3. Web API's

- a. Add Biometric Device
- b. Delete Biometric Device
- c. Fetch Biometric Logs
- d. Upload Users in Biometric
- e. Delete User in Biometric
- f. Fetch Live Users from Biometric
- g. Set User Expiration
- h. Fetch Biometric Commands
- i. Photo Registration
- j. Block/ unblock Users
- k. ClearAllLogsFromDeviceByTime(Only Supported in Speed Face)
- l. TriggerUserOnlineEnrollment

---

# OVERVIEW

---

**a) All the api is published on postman at the below link**

**[SmartOffice API \(getpostman.com\)](#)**

**b) Prerequisites**

Below are the following details required to access Smart Office API's.

- Smart Office Web Application.
- Smart Office database.

This can be used in variety of Languages to access REST API's like .Net, JAVA etc.

**c) Support**

In case for any clarifications, Please get in touch with the API Support with Time Sheet team

---

# SPECIFICATIONS

---

The API uses Http Requests to receive data and send responses in **JSON** format.

a) **API Request:**

An API request lets you contact a server with API endpoints that you want to reach and perform some action. Those actions are HTTP methods.

b) **API Response:**

An API response consists of the body, headers, and the status code.

c) **API Exception:**

if there is an exception during the processing of the request then the application will send the response in the following

# WEB API'S

This Section describes various web service methods available for Biometric communication

## a) Add Biometric Device

### POST /api/v2/WebAPI/AddBiometric

Add new Biometric Device to Smart Office

#### Request JSON Object

- **APIKey (String):** Authentication -token key.
- **DeviceName (String):** Name of the device.
- **SerialNumber (String):** A unique identity Id of the biometric.

#### Response:

- **Message:** "Device Added Successfully."

Untitled Request

POST <http://localhost:89/api/v2/WebAPI/AddBiometric?APIKey=420113032112&DeviceName=xyz&SerialNumber=C26044C84F352331> Send Save

Params \*\*\* Body 200 OK 22 ms 472 B Save Response

Query Params

	KEY	VALUE	DESCRIPTION	***	Bulk Edit
<input checked="" type="checkbox"/>	APIKey	42011303...			
<input checked="" type="checkbox"/>	DeviceNa...	xyz			
<input checked="" type="checkbox"/>	SerialNum...	C26044C8...			
	Key	Value	Description		

Pretty Raw Preview Visualize JSON 🔍

```
1 "Device Added Successfully."
```

#### Other Response Messages:

- **"Device Name is already exists"** : Device with the Name given is already exists in the database
- **"Device SerialNumber is already exists"**: Device with the Serial Number given is already exists in the database

## b) Delete Biometric Device

### GET /api/ v2/WebAPI/DeleteBiometric

To Delete Biometric Device from Smart Office

#### Request JSON Object

- **APIKey (String):** Authentication-token key.
- **SerialNumber (String):** A unique identity Id of the biometric.

#### Response:

- **Message:** "Biometric Deleted Successfully."

The screenshot shows a REST client interface with the following details:

- Request:** Method: GET, URL: `http://localhost:89/api/v2/WebAPI/DeleteBiometric?APIKey=420113032112&SerialNumber=C26044C84F352331`
- Params:** A table of query parameters.
- Body:** The response body is `"Device Deleted Successfully."` in JSON format.
- Status:** 200 OK, 354 ms, 474 B.

KEY	VALUE
<input checked="" type="checkbox"/> APIKey	420113032112
<input checked="" type="checkbox"/> SerialNumber	C26044C84F352331
Key	Value

#### Error Messages –

- **"Device Is Not Exists."** – if the mention Device Serial Number is wrong
- **"Device Logs exists for this device, You can not delete"** – if the Punch Records for the Device is exists

## c) Fetch Biometric Logs Data

### GET /api/v2/WebAPI/ GetDeviceLogs

To get Biometric log data from Smart Office database.

#### Request JSON Object

- **APIKey (String):** Authentication-token key.
- **FromDate (DateTime):** from when the logs to be send.
- **ToDate (DateTime):** until when the logs to be send.

#### Response JSON data:

```
[
  {
    "EmployeeCode": "5 ",
    "LogDate": "2019-09-16 13:45:29 ",
    "SerialNumber": ""
    "PunchDirection": " in"
    "Temperature": 97.4
    "TemperatureState": "Normal"
  }
]
```

Untitled Request

GET http://localhost:89/api/v2/WebAPI/GetDeviceLogs?APIKey=420113032112&FromDate=2021-02-01&ToDate=2021-02-01

Send Save

Params

Query Params

KEY	VALUE
<input checked="" type="checkbox"/> APIKey	420113032112
<input checked="" type="checkbox"/> FromDate	2021-02-01
<input checked="" type="checkbox"/> ToDate	2021-02-01
Key	Value

Body

200 OK 586 ms 24.47 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 [
2   {
3     "EmployeeCode": "1",
4     "LogDate": "2021-02-16 12:06:52",
5     "SerialNumber": "C26044C84F352330",
6     "PunchDirection": "",
7     "Temperature": 0.0,
8     "TemperatureState": "Not Measured"
9   },
10  {
11    "EmployeeCode": "1",
12    "LogDate": "2021-02-16 12:07:30",
13    "SerialNumber": "C26044C84F352330",
14    "PunchDirection": "",
15    "Temperature": 0.0,
16    "TemperatureState": "Not Measured"
17  }
18 ]
```

#### Other Biometric Response:

```
{
  "status": false,
  "message": "Serial Number does not exist."
}

{
  status: false,
  message: "Invalid API Key."
}
```

## d) Upload Users to Biometric Device

### POST /api/v2/WebAPI/UploadUser

To upload User into Biometric Device from Smart Office

#### Request JSON Object

- **APIKey (String):** Authentication-token key.
- **EmployeeName (String):** Name of the Employee/User.
- **EmployeeCode (String):** Biometric Code of the Employee/User.
- **CardNumber (String):** Card Number of user.
- **SerialNumber (String):** To which Biometric device Serial Number User has to be uploaded, Use Comma (,) to separate multiple serial numbers.

**VerifyMode (String):** To Allow dual verification mode -(face+card) – This will add face & card verification mode

- ☐ **IsFaceUpload** – Pass it as true if you want to upload the face
- ☐ **IsFPUUpload** – pass it true if you want to upload Fingerprint
- ☐ **IsCardUpload** – pass true if you want to upload password
- ☐ **IsBioPasswordUpload** – pass true if you want to upload password

#### Response:

- **Message:** "Command Send Successfully."

The screenshot shows a REST client interface with the following details:

- Request:** POST to `http://localhost:89/api/v2/WebAPI/UploadUser?APIKey=420113032112&EmployeeCode=123&EmployeeName=xyz&CardNumber&Ser`
- Params:** A table of query parameters is shown below.
- Body:** The response body is displayed in JSON format.
- Status:** 200 OK, 25 ms, 471 B.
- Message:** "Command Send Successfully"

KEY	VALUE
<input checked="" type="checkbox"/> APIKey	420113032112
<input checked="" type="checkbox"/> EmployeeCode	123
<input checked="" type="checkbox"/> EmployeeName	xyz
<input checked="" type="checkbox"/> CardNumber	
<input checked="" type="checkbox"/> SerialNumbers	C26044C84F352331
Key	Value

```
1 "Command Send Successfully"
```

#### Other Response Messages

- Device is not exists.
- API key is not correct



## e) Delete Users from Biometric Device

### POST /api/v2/WebAPI/DeleteUser

To Delete User from Biometric Device using Smart Office

#### Request JSON Object

- **APIKey (String):** Authentication-token key.
- **EmployeeCode (String):** Biometric Code of the Employee/User.
- **SerialNumber (String):** To which Biometric device Serial Number User has to be deleted, Use Comma (,) to separate multiple serial numbers.

#### Response:

- **Message:** "Delete Command Send Successfully."

The screenshot displays a REST client interface with the following details:

- Request Method:** POST
- URL:** `http://localhost:89/api/v2/WebAPI/DeleteUser?APIKey=420113032112&EmployeeCode=123&SerialNumbers=C26044C84F352331 ...`
- Params:** A table of query parameters is shown below.
- Body:** The response body is displayed in JSON format.
- Status:** 200 OK, 181 ms, 471 B
- Response Message:** "Command Send Successfully"

KEY	VALUE
APIKey	420113032112
EmployeeCode	123
SerialNumbers	C26044C84F352331
Key	Value

```
{  "Message": "Command Send Successfully"}
```

#### Other Response Messages

- Device is not exists.
- API key is not correct

## f) Fetch Live Users from Biometric

### GET /api/v2/WebAPI/FetchLiveUsersFromBiometric

To fetch live Users from Biometric Device using Smart Office

#### Request JSON Object

- **APIKey (String)**: Authentication-token key.
- **SerialNumber (String)**: To which Biometric device Serial Number live User has to be fetched.

#### Response:

```
[
  {
    "EmployeeCode": "01",
    "FPCount": "1",
    "Privilege": "USER"
  }
]
```

#### Other Response Messages

- Device is not exists.
- API key is not correct

## g) Set User Expiration

### GET /api/v2/WebAPI/SetUserExpiration

To set the expiration rule of the Biometric User in Device using Smart Office

#### Request JSON Object

- **APIKey (String)**: Authentication-token key.
- **SerialNumber (String)**: Biometric Serial Number, If Set as 0 then it will execute all on Biometric devices.
- **EmployeeCode (String)**: Biometric Code of the Employee/User.
- **ExpirationDate (String)**: Expiration date of the User and the Format will be (yyyy-MM-dd).

**Response:**

- **Message:** "Command Send Successfully."

The screenshot shows a REST client interface with the following details:

- Request:** GET `http://localhost:89/api/v2/WebAPI/SetUserExpiration?APIKey=420113032112&SerialNumber=C26044C84F352331&EmployeeCode=...`
- Response Status:** 200 OK, 10.72 s, 472 B
- Response Body:** "Command Send Successfully."
- Query Params Table:**

KEY	VALUE
APIKey	420113032112
SerialNumber	C26044C84F352331
EmployeeCode	123
ExpirationDate	2020-04-01
Key	Value

**Other Response Messages**

- Device is not exists.
- API key is not correct

**h) Fetch Biometric Commands****GET /api/WebAPI/GetDeviceCommands**

To get and check the status of the commands issued by the user in the device.

**Request Query String**

- **APIKey (String):** Authentication-token key.
- **FromDate (DateTime):** From when the commands need to fetched.
- **ToDate(DateTime):** Till when the commands need to be fetched.
- **SerialNumbers :** this is optional parameters if you want to get the records of the specific devices then pass the comma separated serial number for example C2688C21CB2D172711,ADZV213760072

**Response:**

```
{
  "status": "success",
  "message": "",
  "records": [
    {
      "Title": "Get All Users from Biometric -MUM_BKC",
```

```
"DeviceCode": "MUM_BKC",
"SerialNumber": "C2689C47030A2334",
"CreationDate": "2020-11-05 15:08",
"ExecutionDate": "1900-01-01 00:00",
"Status": "Pending",
"Response": ""
}},
"result": true
}
```

Untitled Request

GET http://localhost:89/api/v2/WebAPI/GetDeviceCommands?APIKey=420113032112&FromDate=2020-01-01&ToDate=2020-01-01 Send Save

Params Query Params

KEY	VALUE
<input checked="" type="checkbox"/> APIKey	420113032112
<input checked="" type="checkbox"/> FromDate	2020-01-01
<input checked="" type="checkbox"/> ToDate	2020-01-01
Key	Value

Body

200 OK 218 ms 504 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "status": "success",
3   "message": "",
4   "records": [],
5   "result": true
6 }
```

## Other Response Messages

- From Date cannot be greater than To Date.

```
{
  "status": "failure",
  "message": "From Date [05-Nov-2020] cannot be greater than To Date [01-Nov-2020]",
  "records": [],
  "result": false
}
```

## i) Photo Registration

### POST /api/WebAPI/PhotoUploadInBiometric

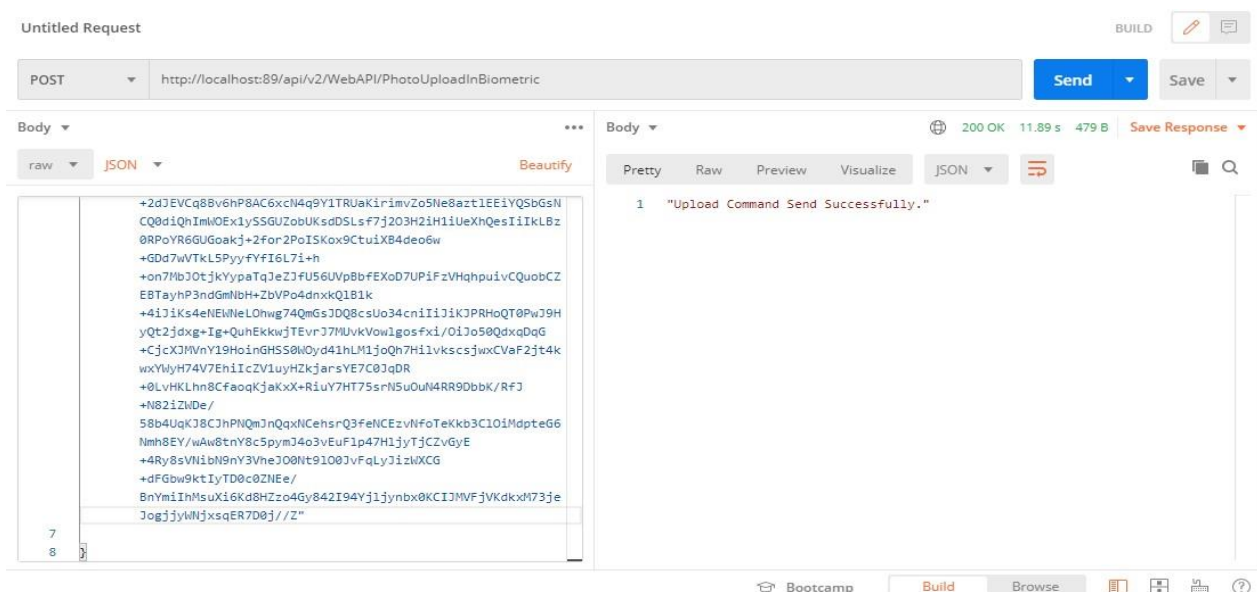
To register user using base64 image into the biometric.

#### Request JSON Object

- **APIKey (String):** Authentication-token key.
- **SerialNumber (string):** Serial Number of the Biometric.
- **EmployeeName(string):** Name of the Employee.
- **EmployeeCode(string):** Employee Biometric Code from which the user need to be get registered.
- **Base64String(string):** base64 data of the registration image.

#### Response:

- **Message:** "Upload Command Send Successfully."



#### Other Response Messages

- Serial Number cannot be blank.
- EmployeeCode cannot be blank.
- EmployeeName cannot be blank.
- Base64String cannot be blank.
- API key is not correct

## j) Block/unblock Users

### GET /api/WebAPI/BlockUserinBiometric

To register user using base64 image into the biometric.

#### Request JSON Object

- **APIKey (String):** Authentication-token key.
- **EmployeeCode(string):** Employee Biometric Code from which the user need to be block/unblock.
- **SerialNumber (string):** Serial Number of the Biometric.
- **BlockUser (int):** 0 – to block the user, 1 – to unblock the user.

#### Response:

- **Message:** "Command Send Successfully."

The screenshot displays a REST client interface with the following details:

- Request:** Method: GET, URL: `http://localhost:89/api/v2/WebAPI/BlockUserinBiometric?APIKey=420113032112&EmployeeCode=123&SerialNumber=C26044C84F35`
- Params:** A table of query parameters is shown below.
- Response:** Status: 200 OK, Time: 15.00 s, Size: 472 B. The response body is `"Command Send Successfully."`

KEY	VALUE
<input checked="" type="checkbox"/> APIKey	420113032112
<input checked="" type="checkbox"/> EmployeeCode	123
<input checked="" type="checkbox"/> SerialNumber	C26044C84F352331
<input checked="" type="checkbox"/> BlockUser	1
Key	Value

#### Other Response Messages

- Biometric device not exist with the Serial Number
- API key is not correct

Note - There are very few models which support this command, make sure to cross check whether respective models supports this command or not from the seller.

## k) Add/Update Employee

### GET /api/v2/WebAPI/AddEmployee

To add/update Employee details in the application .

### Request JSON Object

```
{
  "StaffCode": "12121",
  "StaffName": "abc",
  "Gender": "Male",
  "Status": "Working",
  "CompanySName": "Default",
  "DepartmentSName": "Default",
  "Location": "Default",
  "Designation": "Default",
  "Grade": "Default",
  "Team": "Default",
  "DOJ": "2021-04-28",
  "DOC": "2021-09-15",
  "DOB": "1987-06-01",
  "DOR": "3000-01-01"
}
```

**Note - All the Date format like DOJ,DOC,DOB,DOR should be in yyyy-MM-dd format**

Response:

```
{
  "Message": "Employee Added Successfully",
  "Result": true
}
```

The screenshot displays a REST client interface with the following details:

- Request:** A POST request to `http://localhost:89/api/v2/WebAPI/AddEmployee` with a JSON body containing employee details. The interface shows tabs for Params, Auth, Headers (8), Body (selected), Pre-req., Tests, and Settings. The Body tab is set to JSON and beautified.
- Response:** A 200 OK response with a status of 7.22 s and 543 B. The response body is shown in the Pretty view, displaying the success message and result.

```
POST http://localhost:89/api/v2/WebAPI/AddEmployee
```

Body (Request):

```
{
  "StaffCode": "12121",
  "StaffName": "abc",
  "Gender": "Male",
  "Status": "Working",
  "CompanySName": "Default",
  "DepartmentSName": "Default",
  "Location": "Default",
  "Designation": "Default"
}
```

Body (Response):

```
{
  "Message": "Employee Added Successfully.",
  "Result": true
}
```

## I) Delete Employee

### GET /api/v2/WebAPI/DeleteEmployee

To delete the existing employee from the application.

### Request JSON Object

- **EmployeeCode (string):** Employee Code to delete.

### Response:

```
{
  "Message": "Employee Deleted Successfully",
  "Result": true
}
```

```
{
  "Message": "Employee Not exists.",
  "Result": false
}
```

The screenshot shows a REST client interface with the following details:

- Request:** Method: POST, URL: `http://localhost:89/api/v2/WebAPI/DeleteEmployee?EmployeeCode=419`
- Params:** A table with columns KEY, VALUE, and DESCRIPTION. It contains one entry: 

KEY	VALUE	DESCRIPTION
EmployeeCode	419	
- Body:** The response is displayed in JSON format: 

```
{
  "Message": "Employee Deleted Successfully.",
  "Result": true
}
```
- Status:** 200 OK, 815 ms, 502 B



## J) Add Company

### GET /api/v2/WebAPI/AddCompany

To delete the existing employee from the application.

### Request JSON Object

```
{
  "BranchAddress": "648, 2nd Floor, Sri Janardhan Towers 5th Main, 1st Cross Rd, RBI Lay
out, JP Nagar 7th Phase, Naagarabhaavi, Bengaluru, Karnataka 560078",
  "BranchFullName": "SmartOffice payroll & Biometrics Solutions pvt ltd",
  "BranchShortName": "SmartOffice payroll & Biometrics Solutions pvt ltd",
  "BranchMail": "SupportIndia@Smartofficepayroll.com",
  "BranchWebsite": "www.smartofficepayroll.com"
}
```

SmartOffice API / AddCompany

POST 45.118.183.175:86//api/v2/WebAPI/AddCompany?APIKey=521714042205

Params Authorization Headers (8) Body Pre-request Script Tests Settings

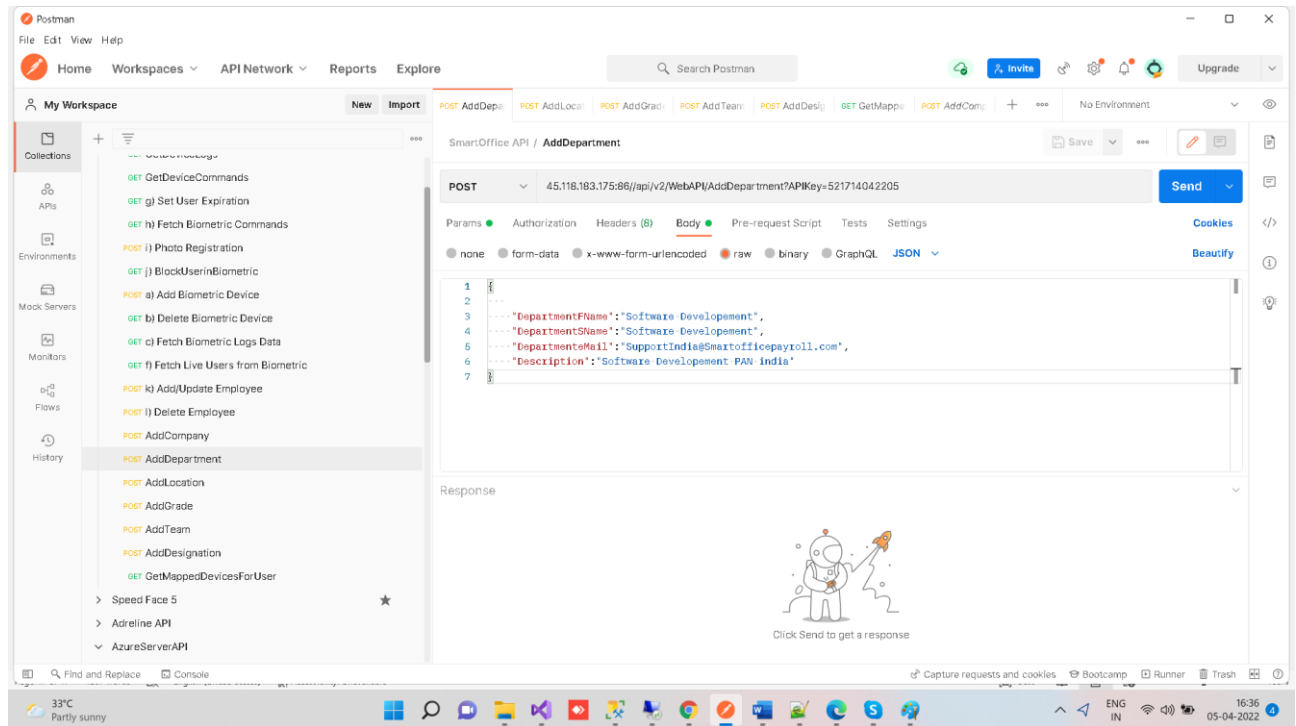
none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "BranchAddress": "648, 2nd Floor, Sri Janardhan Towers 5th Main, 1st Cross Rd, RBI Layout, JP Nagar 7th Phase,
   Naagarabhaavi, Bengaluru, Karnataka 560078",
3   "BranchFullName": "SmartOffice payroll & Biometrics Solutions pvt ltd",
4   "BranchShortName": "SmartOffice payroll & Biometrics Solutions pvt ltd",
5   "BranchMail": "SupportIndia@Smartofficepayroll.com",
6   "BranchWebsite": "www.smartofficepayroll.com"
7 }
```

## K) Add Department

### Request Json

```
{
  "DepartmentFName": "Software Developement",
  "DepartmentSName": "Software Developement",
  "DepartementMail": "SupportIndia@Smartofficepayroll.com",
  "Description": "Software Developement PAN india"
}
```



## L) Add Location

URL - 45.118.183.175:86//api/v2/WebAPI/AddLocation?APIKey=521714042205

### Request Json

```
{  
  
  "LocationName": "Bangalore1",  
  "LocationCode": "Bangalore1",  
  "eMail": "SupportIndia@Smartofficepayroll.com",  
  "LocationLatitude": "12.9337623",  
  "LocationLongitude": "77.5828713",  
  "Radius": "500",  
  "LocationFullAddress": "482, JPNagar - 560078"  
}
```

**POST** 45.118.183.175:86//api/v2/WebAPI/AddLocation?APIKey=521714042205

Params ☒ Authorization Headers (8) **Body** ☒ Pre-request Script Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ☒

```

1  {
2  ---
3  --- "LocationName": "Bangalore1",
4  --- "LocationCode": "Bangalore1",
5  --- "eMail": "SupportIndia@Smartofficepayroll.com",
6  --- "LocationLatitude": "12.9337623",
7  --- "LocationLongitude": "77.5828713",
8  --- "Radius": "500",
9  --- "LocationFullAddress": "482, JPNagar -- 560078"
10 }
```

## M) Add Designation

### Request JSON –

```

{
  "DesignationsName": "Senior Software Developer",
  "DesignationCode": "Senior Software Developer"
}
```

**URL** - 45.118.183.175:86//api/v2/WebAPI/AddDesignation?APIKey=521714042205

**POST** 45.118.183.175:86//api/v2/WebAPI/AddDesignation?APIKey=521714042205

Params ☒ Authorization Headers (8) **Body** ☒ Pre-request Script Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ☒

```

1  {
2  ---
3  --- "DesignationsName": "Senior Software Developer",
4  --- "DesignationCode": "Senior Software Developer"
5  }
```

## Request JSON –

```
"GradeCode": "Grade A",  
"GradeName": "Grade A"
```

SmartOffice API / AddGrade



```
1 {
2   - - -
3   - - - "GradeCode": "Grade-A",
4   - - - "GradeName": "Grade-A"
5 }
```

## Requested JSON –

```
"TeamCode":"Development Team",  
"TeamName":"Development Team"
```

URL - 45.118.183.175:86//api/v2/WebAPI/AddTeam?APIKey=521714042205

## SmartOffice API / AddTeam

**POST** 45.118.183.175:86//api/v2/WebAPI/AddTeam?APIKey=521714042205

Params ☒ Authorization Headers (8) **Body** ☒ Pre-request Script Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ☒

```

1 {
2   ...
3   "TeamCode": "Developement-Team",
4   "TeamName": "Developement-Team"
5 }
```

## P) ClearAllLogsFromDevice – This api will clear all the Attendance Log Records from Device

**URL** - 45.118.183.175:86//api/v2/WebAPI/ ClearAllLogsFromDevice?APIKey=521714042205&SerialNumber= C261185157361E2C

SmartOffice API / p) ClearAllLogsFromDevice

Save

**GET** 45.118.183.175:86//api/v2/WebAPI/ClearAllLogsFromDevice?APIKey=521714042205&SerialNumber=C261185157361E2C **Send**

Params ☒ Authorization Headers (6) Body Pre-request Script Tests Settings **Cookies**

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	APIKey	521714042205			
<input checked="" type="checkbox"/>	SerialNumber	C261185157361E2C			
	Key	Value	Description		

## Q)ClearLogsFromDeviceByTime - This api will clear all the Attendance Log Records from Device by specific time. This api only supported in Speed Face Model

**URL** - 45.118.183.175:86//api/v2/WebAPI/ClearLogsFromDeviceByTime?APIKey=521714042205&SerialNumber=C261185157361E2C&StartTime=2022-05-09 09:00&EndTime=2022-05-09 07:00

GET 45.118.183.175:86//api/v2/WebAPI/ClearLogsFromDeviceByTime?APIKey=521714042205& SerialNumber=C261185157361E2...

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	APIKey	521714042205	
<input checked="" type="checkbox"/>	SerialNumber	C261185157361E2C	
<input checked="" type="checkbox"/>	StartTime	2022-05-09 09:00	
<input checked="" type="checkbox"/>	EndTime	2022-05-09 07:00	
	Key	Value	Description

## R) TriggerUserOnlineEnrollment- This api will Trigger the Online Enrollment command

### URL -

207.148.121.63:86/api/v2/WebAPI/TriggerUserOnlineEnrollment?APIKey=593910012317&SerialNumber=0426134400988&EmployeeCode=447789&EmployeeName=ritesh singh&backup\_number=1

GET m) TriggerUserOnlineEnrollment SmartOffice API + ... No Environment

SmartOffice API / m) TriggerUserOnlineEnrollment Save ...

GET 207.148.121.63:86/api/v2/WebAPI/TriggerUserOnlineEnrollment?APIKey=593910012317&SerialNumber=0426134400988&Emplo ... Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	APIKey	593910012317			
<input checked="" type="checkbox"/>	SerialNumber	0426134400988			
<input checked="" type="checkbox"/>	EmployeeCode	447789			
<input checked="" type="checkbox"/>	EmployeeName	ritesh singh			
<input checked="" type="checkbox"/>	backup_number	1			
	Key	Value	Description		