#	Method	Endpoint	Resource	JSON_Input	JSON-Output	Details	Type

1	POST	http://localhost:8081	/aqs/login	{
				  "Id":"",
				
				"email":"muhammadFarooq@gmail01.com",
				  "password":"123456"
				}
					{
					  "id": 1,
					  "email": "muhammadFarooq@gmail01.com",
					  "password": "123456"
					}
						To add a new user login in database. No two accounts can have same email address.	User Login

2	POST	http://localhost:8081	/aqs/admin	{
				  "id":"",
				
				"email":"muhammadFarooq@gmail01.com",
				  "password":"123456",
				  "status":true
				}
					{
					  "id":2,
					  "email":"muhammadFarooq@gmail01.com",
					  "password":"123456",
					  "status":true
					}
						To add a new admin login in database. No two accounts can have same email address.	Admin Login

3	POST	http://localhost:8081	/aqs/devices	{
				  "id":null,
				
				"sensor_combination_code":"10",
				  "code_version":"ABC",
				  "status":true,
				  "created_by":"Farooq",
				  "updated_by":"Farooq"
				}
					{
					  "id": 5,
					  "sensor_combination_code": 10,
					  "code_version": "ABC",
					  "status": true,
					  "created_by": "Farooq",
					  "created_at": "14:50:33",
					  "updated_by": "Farooq",
					  "updated_at": "14:50:33"
					}
						To register a new device.	Device Registration

4	POST	http://localhost:8081	/aqs/sensor	{
				  "id":"1",
				  "name":"PMS3003",
				  "functionality":"This sensor measures PM1.0,PM2.5 and PM 10",
				  "minoptimumvalue":"100",
				  "maxoptimumvalue":"200",
				  "status":true,
				  "ctratedby":"Farooq",
				  "updatedby":"Farooq",
				  "admin":
				  {
				  "id":"",
				
				"email":"muhammadFarooq@gmail11.com",
				  "password":"123456",
				  "status":true
				  }
				}
					{
					  "id": 1,
					  "name": "PMS3003",
					  "functionality": "This sensor measures PM1.0,PM2.5 and PM 10",
					  "minoptimumvalue": "100",
					  "maxoptimumvalue": "200",
					  "status": true,
					  "ctratedby": "Farooq",
					  "createdat": "19:56:46",
					  "updatedby": "Farooq",
					  "updatedat": "19:56:46",
					  "admin": {
					        "id": null,
					        "email": "muhammadFarooq@gmail11.com",
					        "password": "123456",
					        "status": true
					  }
					}
						To add a new sensor. No two sensors can have the same name.	Sensor Registration

5	POST	http://localhost:8081	/aqs/error	{
				  "id":null,
				  "errorcode":"02",
				  "description":"Test Error",
				  "status":true,
				  "createdby":"Farooq",
				  "updatedby":"Farooq",
				"admin":
				{
				  "id":"",
				
				"email":"muhammadFarooq@gmail03.com",
				  "password":"123456",
				  "status":true
				}
				
				  }
					{
					  "id": 94,
					  "errorcode": 2,
					  "description": "Test Error",
					  "status": true,
					  "createdby": "Farooq",
					  "createdat": "18:51:53",
					  "updatedby": "Farooq",
					  "updatedat": "18:51:53",
					  "admin": {
					        "id": 95,
					        "email": "muhammadFarooq@gmail03.com",
					        "password": "123456",
					        "status": true
					  }
					}
						To register a new error. No two errors can have the same error code.Admin email must be unique.	Error registration

| 6 | POST | http://localhost:8081 | /aqs/codeversion | ```json
{
    "id":null,
    "version":"5",
    "sensorcombinationcode":"100",
    "firmware":"firmware02",
    "status":true,
    "createdby":"Farooq",
    "updatedby":"Farooq",
    "admin":
    {
        "id":null,
        "email":"muhammadFarooq@gmail011.com",
        "password":"123456",
        "status":true
    }
}
``` | ```json
{
  "id": 163,
  "version": "5",
  "sensorcombinationcode": 100,
  "firmware": "firmware02",
  "status": true,
  "createdby": "Farooq",
  "createdat": "12:40:45",
  "updatedby": "Farooq",
  "updatedat": "12:40:45",
  "admin":    {
        "id": 164,
        "email": "muhammadFarooq@gmail011.com",
        "password": "123456",
        "status": true
    }
}
``` | To add a new code version. No two code versions can can be same. Admin must have a distinct email adress everytime. :( | Code version registration |
|---|---|---|---|---|---|---|---|
| 7 | POST | http://localhost:8081 | /aqs/datapacket | ```json
{
    "id":null,
    "deviceid":"5",
    "values":
        [
{"sensor_name":"PMS3003","parameter_name":"PM1.0","value":"125"},
{"sensor_name":"PMS3003","parameter_name":"PM2.5","value":"235"},
{"sensor_name":"PMS3003","parameter_name":"PM10","value":"50"}
    ],
    "status":true
}
``` | Records are savd in database.

Nothing to return | To save new data records by manipulating datapacket. | Data records generation. |
| 8 | POST | http://localhost:8081 | /aqs/sensorcombination | ```json
{
    "id":null,
    "sensorcombinationcode":"004",
    "description":"PM 2.5",
    "status":true,
    "createdby":"Farooq",
    "updatedby":"Farooq",
"admin":
{
 "id":null,
 "email":"muhammadFarooq@gmail01.com",
 "password":"123456",
 "status":true
}
}
``` | ```json
{
  "id": 114,
  "sensorcombinationcode": 4,
  "description": "PM 2.5",
  "status": true,
  "createdby": "Farooq",
  "createdat": "12:03:39",
  "updatedby": "Farooq",
  "updatedat": "12:03:39"
}
``` | To add a new sensor combination. No two sensor combinations can have same semcor combination code. | To add a new sensor combination |
| 9 | POST | http://localhost:8081 | /aqs/location | ```json
{
"id":null,
"longitude":"250",
"latitude":"260",
"status":true,
"createdby":"Farooq",
"updatedby":"Farooq",
"device":
{
        "id":null,
        "sensor_combination_code":"10",
        "code_version":"ABC",
        "status":true,
        "created_by":"Farooq",
        "updated_by":"Farooq"
}
}
``` | ```json
{
  "id": 110,
  "locationtime": "11:54:10",
  "longitude": "250",
  "status": true,
  "createdby": "Farooq",
  "createdat": "11:54:10",
  "updatedby": "Farooq",
  "updatedat": "11:54:10",
  "device":    {
        "id": 111,
        "sensor_combination_code": 10,
        "code_version": "ABC",
        "status": true,
        "created_by": "Farooq",
        "created_at": null,
        "updated_by": "Farooq",
        "updated_at": null
    },
  "latitude": "260"
``` | To add a new location of a device in database. | To add a new location |

					}			

9	GET	http://localhost:8081	/aqs/login	–	[
					    {
					    "id": 1,
					    "email": "muhammadFarooq@gmail01.com",
					    "password": "123456"
					  },
					    {
					    "id": 4,
					    "email": "muhammadFarooq@gmail02.com",
					    "password": "123456"
					  }
					]
						To get all login records from database .	get logins

10	POST	http://localhost:8081	/aqs/sensorpar ameter	{
				    "id":null,
				    "sensorname":"PMS3003",
				    "parameter":"PM10"
				}
					{
					  "id": 195,
					  "sensorname": "PMS3003",
					  "parameter": "PM10"
					}
						To store parameters in Sensor parameters table.	Store sensor parameters