#	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":"1",
				"code_version_detail":"This device have code version 1",
				"status":true,
				"created_by":"Farooq",
				"updated_by":"Farooq"
				}
					{
					"id": 243,
					"sensor_combination_code": 10,
					"code_version": 1,
					"code_version_detail": "This device have code version 1",
					"status": true,
					"created_by": "Farooq",
					"created_at": "21:14:50",
					"updated_by": "Farooq",
					"updated_at": "21:14:50"
					}
						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	{
				"id":null,
				"version":"2",
				"description":"This is version 2.",
				"sensorcombinationcode":"100",
				"firmware_url":"firmware03",
				"status":true,
				"createdby":"Farooq",
				"updatedby":"Farooq",
				"admin":
				{
				"id":null,
				"email":"muhammadFarooq@gmail016.com",
				"password":"123456",
				"status":true
				}
				}
					{
					"id": 239,
					"description": "This is version 2.",
					"firmware_url": "firmware03",
					"status": true,
					"createdby": "Farooq",
					"createdat": "20:56:07",
					"updatedby": "Farooq",
					"updatedat": "20:56:07",
					"sensorcombinationcode": 100,
					"admin": {
					"id": 240,
					"email": "muhammadFarooq@gmail016.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	{
				"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 save in database.
					Nothing to return
						To save new data records by manipulating datapacket.	Data records generation.

8	POST	http://localhost:8081	/aqs/sensorcombination	{
				"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
				}
				}
					{
					"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	{
				"id":null,
				"deviceid":"10",
				"longitude":"300",
				"latitude":"360"
				}
					{
					"id": 219,
					"deviceid": 10,
					"locationtime": "19:25:46",
					"longitude": "300",
					"latitude": "360"
					}
						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/sensorparameter	{
				"id":null,
				"sensorname":"PMS3003",
				"parameter":"PM10"
				}
					{
					"id": 195,
					"sensorname": "PMS3003",
					"parameter": "PM10"
					}
						To store parameters in Sensor parameters table.	Store sensor parameters

11	POST	http://localhost:8081	/aqs/errorlog	{
				"id":null,
				"deviceid":""
				"errorcode":"5"
				}
					{
					"id": 220,
					"deviceid": 5,
					"occurtime": "22:56:57",
					"errorcode": 5
					}
						To strore the occurance of an error in database.	Store errorlog

12	GET	http://localhost:8081	/aqs/errorlog/5	_	[
					{
					"id": 220,
					"deviceid": 5,
					"occurtime": "22:56:57",
					"errorcode": 5
					},
					{
					"id": 221,
					"deviceid": 5,
					"occurtime": "01:19:49",
					"errorcode": 4
					},
					{
					"id": 222,
					"deviceid": 5,
					"occurtime": "01:19:57",
					"errorcode": 3
					},
					{
					"id": 223,
					"deviceid": 5,
					"occurtime": "01:20:04",
					"errorcode": 2
					},
					{
					"id": 224,
					"deviceid": 5,
					"occurtime": "01:20:12",
					"errorcode": 1
					}
					]
						To retrieve errorlogs of a particular device.	To retrieve errorlogs.

13	GET	http://localhost:8081	/aqs/location	_	[
					{
					"id": 208,
					"deviceid": 5,
					"locationtime": "18:44:29",
					"longitude": "250",
					"latitude": "260"
					},
					{
					"id": 209,
					"deviceid": 6,
					"locationtime": "19:00:02",
					"longitude": "300",
					"latitude": "360"
					},
					{
					"id": 210,
					"deviceid": 6,
					"locationtime": "19:04:05",
					"longitude": "300",
					"latitude": "360"
					},
					{
					"id": 211,
					"deviceid": 8,
					"locationtime": "19:20:30",
					"longitude": "300",
					"latitude": "360"
					},
					{
					"id": 213,
					"deviceid": 8,
					"locationtime": "19:20:34",
					"longitude": "300",
					"latitude": "360"
					},
					{
					"id": 214,
					"deviceid": 9,
					"locationtime": "19:23:25",
					"longitude": "300",
					"latitude": "360"
					},
					{
					"id": 216,
					"deviceid": 9,
					"locationtime": "19:23:58",
					"longitude": "300",
					"latitude": "360"
					},
					{
					"id": 219,
					"deviceid": 10,
					"locationtime": "19:25:46",
					"longitude": "300",
					"latitude": "360"
					}
					]
						To get locations of all devices.	To get locations of all devices.

14	GET	http://localhost:8081	/aqs/devices/243/10/1	_	<data contentType="text/plain;charset=UTF-8" contentLength="10"><![CDATA[firmware03]]></data>	To check if the firmware require an upgrade.If upgrade is required then return URL of firmware.	To check if the firmware require an upgrade.If upgrade is required then return URL of firmware.

15	PUT	http://localhost:8081	/aqs/devices/243/10/2	_	{
					"id": 243,
					"sensor_combination_code": 10,
					"code_version": 2,
					"code_version_detail": "This device have code version 1",
					"status": true,
					"created_by": "Farooq",
					"created_at": "21:14:50",
					"updated_by": "Farooq",
					"updated_at": "21:14:50"
					}
						To update the record of device when its code version is upgraded.	To update the record of device when its code version is upgraded.

16	DELETE	http://localhost:8081	/aqs/admin/244	_	true	To delete a device from database given its ID.	To delete a device from database given its ID.
17	GET	http://localhost:8081	aqs/admin	_	[{ "id": 243, "sensor_combination_code": 10, "code_version": 2, "code_version_detail": "This device have code version 1", "status": true, "created_by": "Farooq", "created_at": "21:14:50", "updated_by": "Farooq", "updated_at": "21:14:50" }]		