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| --- | --- | --- | --- | --- | --- | --- | --- |
| # | Method | Endpoint | Resource | JSON\_Input | JSON-Output | Details | Type |
| 1 | POST | http://localhost:8081 | /aqs/login | {  "email":"farooq@gmail.com",  "password":"123456",  "status":1  } | {  "recordid": 53,  "email": "farooq@gmail.com",  "password": "123456",  "timestamp": "2018-12-23T14:55:54.880+0000",  "status": true  } | 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/1  { “1” is the id of that admin who is creating this admin } | {  "adminId":"2",  "created\_by\_admin\_id":"1",  "email":"muhammadFarooq@gmail02.com",  "password":"12345678",  "status":true  } | {"response": "ENTER OTHER EMAIL"}  OR  {"response": "YOU ARE NOT ADMIN"}  OR  {"response": "ADMIN REGISTERED"} | To add a new admin login in database.  Email must be unique.  id must be unique. | Admin Login |
| 3 | POST | http://localhost:8081 | /aqs/admin/devices/1    { “1” is admin id } | {  "deviceid":"5",  "sensor\_combination\_code":"1",  "code\_version":"1",  "status":true  } | {"response": "DEVICE ID ALREADY EXIST"}  OR  {"response": "UNKNOWN SENSOR COMBINATION"}  OR  {"response": "YOU ARE NOT ADMIN"}  OR  {"response": "DEVICE REGISTERED"} | To register a new device. | Device Registration |
| 4 | POST | http://localhost:8081 | /aqs/admin/sensor/1  { “1” is admin id } | {  "id":"1",  "name":"PMS3003",  "functionality":"Functionality",  "minoptimumvalue":"100",  "maxoptimumvalue":"200"  } | {"response": "SENSOR REGISTERED"}  OR  {"response": "SENSOR NAME EXISTS ALREADY  "}  OR  {"response":"YOU ARE NOT ADMIN"  } | To add a new sensor. No two sensors can have the same name. | Sensor Registration |
| 5 | POST | http://localhost:8081 | /aqs/admin/error/1  { “1” is admin id } | {  "errorcode":"1",  "description":"Test Error",  "status":true  } | {"response": "ERROR REGISTERED"}  OR  {"response":"YOU ARE NOT ADMIN"  } | 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/admin/codeversion/1  { “1” is admin id } | {  "versionid":"1",  "description":"This is version 1.",  "sensorcombinationcode":"10",  "firmware\_url":"firmware03",  "status":true,  "created\_by\_admin\_id":"1"  } | {"response": "CODE VERSION REGISTERED"}  OR  {"response":"YOU ARE NOT ADMIN"  } | 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/devices/packetrecord/1  { “1” is device id } | {  "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  } | {  "response": "DATA SAVED"  }  OR  {  "DEVICE NOT EXIST"  }  OR  {  "PACKET WAS EMPTY"  } | To save new data records by manipulating datapacket. | Data records generation. |
| 8 | POST | http://localhost:8081 | /aqs/admin/sensorcombination/1  { “1” is admin id } | {    "sensorcombinationcode":"004",  "description":"PM 2.5",  "status":true  } | {"response": "SENSOR COMBINATION REGISTERED"}  OR  { "response": "YOU ARE NOT ADMIN" } | 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 | /devices/location/1  { “1” is device id } | {  "longitude":"300",  "latitude":"360"  } | {  "response": "LOCATION UPDATED"  }  OR  { "response": "DEVICE NOT EXIST" } | 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/admin/sensor/sensorparameter/1/PMS3003  { “PMS3003” is the sensor name }  { “1” is admin id } | {  "id":"1",  "parameter":"PM10"  } | { "response": "SENSOR PARAMETER REGISTERED"}  OR  { "response": "YOU ARE NOT ADMIN" }  OR  { "response": "SENSOR NAME DO NOT EXIST"} | To store parameters in Sensor parameters table. | Store sensor parameters |
| 11 | POST | http://localhost:8081 | /aqs/devices/errorlog/{deviceid}/{errorcode} | {  }  This is an empty request. | {  "response": "ERRORLOG RECORDED"  }  OR  {  "DEVICE NOT EXIST"  }  OR  {  "UNKNOWN ERROR OCCURRED"  } | To strore the occurance of an error in database. | Store errorlog |
| 12 | GET | http://localhost:8081 | /aqs/admin/errorlog/10 | \_ | [{  "recordid": 13,  "deviceid": 10,  "erroroccurtime": "2018-12-13T11:31:18.000+0000",  "errorcode": 5  }] | To retrieve errorlogs of a particular device. | To retrieve errorlogs. |
| 13 | GET | http://localhost:8081 | /aqs/location | \_ | [{  "deviceid": 10,  "locationtime": "2018-12-13T11:25:23.000+0000",  "longitude": 300,  "latitude": 360  }] | To get locations of all devices. | To get locations of all devices. |
| 14 | GET | http://localhost:8081 | /aqs/devices/10/10/1 | \_ | {  "response": "firmware04\_URL"  }  OR  {  "response": " UP TO DATE"  } | 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/10/10/2 | \_ | {  "response": "FIRMWARE UPGRADED!"  } | 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/10 | \_ | {"response": "DEVICE DELETED!"}  OR  {"response": "UNKNOWN DEVICE ID"} | 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 | \_ | [  {    "deviceid": 10,  "sensor\_combination\_code": 10,  "code\_version": 2,  "status": true,  "created\_by\_admin\_id": null,  "created\_at": "2018-12-13T11:07:59.000+0000"  },  {    "deviceid": 1,  "sensor\_combination\_code": 10,  "code\_version": 1,  "status": true,  "created\_by\_admin\_id": 1,  "created\_at": "2018-12-13T11:24:01.000+0000"  }  ] | Request is to get the list of all devices. Admin can make this request. | This request is to get the list of all devices. Admin can make this request. |
| 18 | GET | http://localhost:8081 | aqs/publicside | \_ | [  {  "deviceid": 1,  "longitude": 74.329376,  "latitude": 31.582045,  "aqi": 50  },  {    "deviceid": 2,  "longitude": 74.329376,  "latitude": 31.582045,  "aqi": 270  },  {    "deviceid": 3,  "longitude": 74.3095,  "latitude": 31.5925,  "aqi": 270  }  ] | Request to get all devices location and their AQI. |  |
| 19 | GET | http://localhost:8081 | /aqs/devices/partnerpreviousaqi/1 | \_ | [  {  "id": 483,  "deviceid": 1,  "timestamp": "2019-01-06T06:11:26.000+0000",  "aqi": 235  },  {  "id": 477,  "deviceid": 1,  "timestamp": "2019-01-06T06:11:26.000+0000",  "aqi": 235  },    {  "id": 489,  "deviceid": 1,  "timestamp": "2019-01-06T06:11:26.000+0000",  "aqi": 235  }  ] | To get all previous aqi values of a device based on its deviceid. |  |
| 20 | GET | http://localhost:8081 | /aqs/devices/partnerpreviouspm25/1 | \_ | [  {  "id": 484,  "deviceid": 1,  "timestamp": "2019-01-06T06:11:26.000+0000",  "pm25": 235  },    {  "id": 490,  "deviceid": 1,  "timestamp": "2019-01-06T06:11:26.000+0000",  "pm25": 235  }  ] | To get all previous PM2.5 values of a device based on its deviceid. |  |