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| --- | --- | --- | --- | --- | --- | --- | --- |
| # | Method | Endpoint | Resource | JSON\_Input | JSON-Output | Details | Type |
| 1 | POST | http://localhost:8081 | /aqs/partner | {  "email":"mf4@gmail.com",  "password":"123456"  } | {"response": "Partner Registered"}  OR  {"response": "ENTER OTHER EMAIL"} | Partner Registration  \*Unique Email  \*Device id must be registered already but no partner must exist against that device id | Partner registration |
| 2 | POST | http://localhost:8081 | /aqs/partnersignin | {  "email":"mf4@gmail.com",  "password":"123456"  } | **Incase of invalid Email or Password**  [{  "id": -1,  "createdAt": null,  "email": "INVALID",  "codeVersionId": -1  }]  **Incase of successful login credentials**  [  {  "id": 1,  "createdAt": "2019-06-12T05:26:30.000+0000",  "email": "mf@gmail.com",  "codeVersionId": 1  },  {  "id": 2,  "createdAt": "2019-06-12T05:42:27.000+0000",  "email": "mf@gmail.com",  "codeVersionId": 1  },  {  "id": 3,  "createdAt": "2019-06-12T05:42:44.000+0000",  "email": "mf@gmail.com",  "codeVersionId": 1  },  {  "id": 13,  "createdAt": "2019-06-12T05:44:23.000+0000",  "email": "mf@gmail.com",  "codeVersionId": 1  }  ] | {"response": "LOGGED IN"}  OR  {"response": "INVALID EMAIL OR PASSWORD"}  \*if password or email are invalid.. | Partner Signin |
| 3 | POST | http://localhost:8081 | /aqs/admin | {  "email":"mf@gmail.com",  "password":"123456"  } | {"response": "ADMIN REGISTERED"}  OR  {"response": "YOU CAN NOT BE AN ADMIN"} | Admin Registration  \*Unique Email | Admin Registration |
| 4 | POST | http://localhost:8081 | /aqs/device | {  "id":"4",  "email":"mf@gmail.com",  "codeVersionId":"1"  } | {"response": "DEVICE REGISTERED"}  OR  {"response": "DEVICE ID ALREADY EXIST"}  OR  {"response": "INVALID CODEVERSION"}  OR  {"response": "INVALID EMAIL"} | To register a new device. | Device Registration |
| 5 | POST | http://localhost:8081 | /aqs/error | {  "id":"3",  "description":"This is a test error."  } | {"response": "ERROR REGISTERED"} | 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":"2",  "firmwareUrl":"URL2"  } | {"response": "CODE VERSION REGISTERED"}  OR  {"response": "VERSION ID ALREADY EXIST"} | To add a new code version. No two code versions can can be same. | Code version registration |
| 7 | POST | http://localhost:8081 | /aqs/device/datarecord | {  "deviceId":"1",  "temperature":"31",  "humidity":"31",  "pm1":"100",  "pm10":"100",  "pm25":"100",  "aqi":"148"  } | {  "response": "DATA SAVED"  }  OR  {  "DEVICE NOT EXIST"  } | To save new data records by manipulating datapacket. | Data records generation. |
| 8 | POST | http://localhost:8081 | /device/location | {  "deviceId":"2",  "longitude":"300",  "latitude":"360",  "locationName":"ArfaTower"  } | {"response": "DEVICE LOCATION STORED"}  OR  { "response": "DEVICE ID NOT EXIST" } | To add a new location of a device in database. | To add a new location |
| 9 | POST | http://localhost:8081 | /aqs/device/errorlog | {  "deviceId":"1",  "errorId":"1"  } | {  "response": "ERRORLOG RECORDED"  }  OR  {"response": "DEVICE ID NOT EXIST"}  OR  {"response": "ERROR ID NOT EXIST"} | To strore the occurance of an error in database. | Store errorlog |
| 10 | 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. |
| 11 | PUT | http://localhost:8081 | /aqs/device/codeversion | {  "id":"1",  "codeVersionId":"1"  } | {  "response": "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. |
| 12 | PUT | http://localhost:8081 | /aqs/device | {  "id":"1",  "codeVersionId":"1"  } | {  "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. |
| 13 | GET | http://localhost:8081 | aqs/device | \_ | [  {  "id": 1,  "createdAt": "2019-01-27T20:50:08.000+0000",  "codeVersionId": 1  },  {  "id": 2,  "createdAt": "2019-02-01T11:33:49.000+0000",  "codeVersionId": 1  },  {  "id": 3,  "createdAt": "2019-02-01T11:33:58.000+0000",  "codeVersionId": 1  },  {  "id": 4,  "createdAt": "2019-06-08T04:18:22.000+0000",  "codeVersionId": 1  }  ] | 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. |
| 14 | 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. |  |
| 15 | GET | http://localhost:8081 | /aqs/partner/device/1  {1 is device id} | \_ | [ {  "id": 135,  "deviceId": 1,  "temperature": 31,  "humidity": 31,  "pm1": 100,  "pm25": 100,  "pm10": 100,  "aqi": 149  },  {  "id": 146,  "deviceId": 1,  "temperature": 31,  "humidity": 31,  "pm1": 100,  "pm25": 100,  "pm10": 100,  "aqi": 148  }  ] | To get all previous data of a device based on its deviceid. |  |
| 16 | GET | http://localhost:8081 | /aqs/device/partnerpreviousaqi/1  { 1 is device id } | \_ | [ {  "id": 301,  "deviceid": 1,  "aqi": 148,  "timestamp": "2019-06-06T02:28:08.000+0000"  },  {  "id": 311,  "deviceid": 1,  "aqi": 148,  "timestamp": "2019-06-07T03:47:36.000+0000"  }  ] | To get all previous aqi values of a device based on its deviceid. |  |
| 17 | GET | http://localhost:8081 | /aqs/device/partnerpreviouspm25/1  { 1 is device id } | \_ | [ {  "id": 302,  "deviceid": 1,  "timestamp": "2019-06-06T02:28:08.000+0000",  "pm25": 100  },  {  "id": 312,  "deviceid": 1,  "timestamp": "2019-06-07T03:47:36.000+0000",  "pm25": 100  }  ] | To get all previous PM2.5 values of a device based on its deviceid. |  |
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