1. Database Design:

1.1 Location Table:

|  |  |
| --- | --- |
| **Column Name** | **Data Type** |
| id | Int |
| name | nvarchar(MAX) |
| Parent\_id | Int |
| Location\_step\_id | int |

Location Step Table:

|  |  |
| --- | --- |
| **Column Name** | **Data Type** |
| id | Int |
| type | nvarchar(MAX) |
| step | Int |

1.2

Visitor Information Table:

|  |  |
| --- | --- |
| **Column Name** | **Data Type** |
| id | Int |
| name | nvarchar(MAX) |
| email | nvarchar(MAX) |
| company\_name | nvarchar(MAX) |
| designation | nvarchar(MAX) |
| mobile | nvarchar(MAX) |
| license\_plate | nvarchar(MAX) |
| nric\_fin | nvarchar(MAX) |
| issh\_notice | bit |
| isclose\_contact | bit |
| isfever | bit |
| location\_id | int |

2. Store Main Information:

API: <https://localhost:44394/api/Information/>

Payloads example:

1 {

"deviceId": "ibm-878A66",

"deviceType": "computer1.0.0",

"deviceName": "VN1-1-3",

"groupId": "847b3b2f1b05dc4",

"dataType": "DATA",

"data": {

"fullPowerMode": false,

"activePowerControl": false,

"firmwareVersion": 1,

"temperature": 21,

"humidity": 53

},

"timestamp": 1629369697

}

2 {

"deviceId": "ibm-00976A",

"deviceType": "computer1.0.0",

"deviceName": "VN1-1-4",

"groupId": "49548881c4d2bea9",

"dataType": "DATA",

"data": {

"version": 3,

"messageType": "periodic",

"occupancy": false,

"stateChanged": 0

},

"timestamp": 1629629040

}

Data Table:

|  |  |
| --- | --- |
| **Column Name** | **Data Type** |
| id | int |
| temperature | Int |
| humidity | Int |
| occupancy | bit |