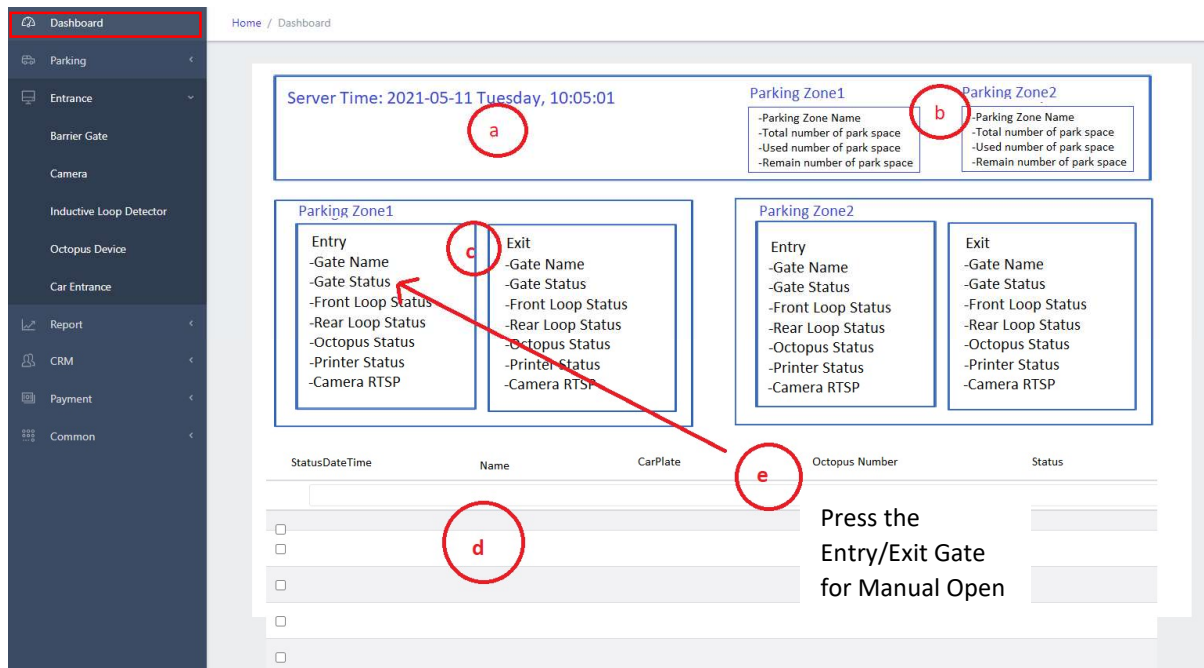


## Part 4: Frontend Pages

### 1. Dashboard



#### a. Server Time Sample Json

API path: not ready

```
{
```

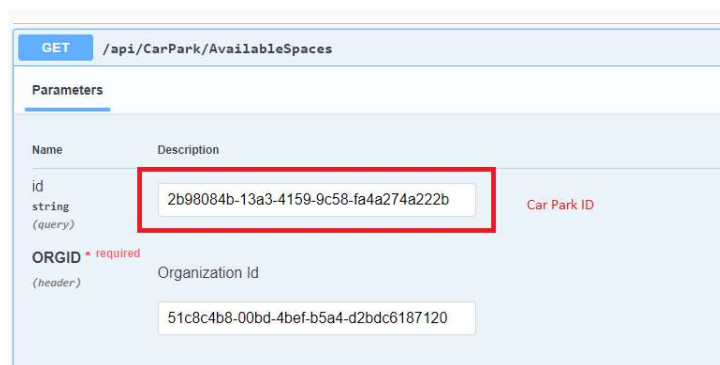
```
    ServerDate: 2021-05-03,  
    ServerTime: 11:00:23
```

```
}
```

#### b. Park Zone Car Space info

Request API Path: /api/CarPark/AvailableSpaces

Input:



Output:

```
{  
  "carParkId": "0000-0000-0000-0001",  
  "carParkName": "New Car Park",  
  "data": [  
    {  
      "ParkZoneId": "1111-2222-3333-4444",  
      "ParkZoneName": "Demo-ParkZone1",  
      "TotalParkingSpace": 40,  
      "UsedParkingSpace": 10,
```

```

    "RemainParkingSpace": 20,
    "ReservedParkingSpace": 10
  },
  {
    "ParkZoneId": "1111-2222-3333-4445",
    "ParkZoneName": "Demo-ParkZone2",
    "TotalParkingSpace": 40,
    "UsedParkingSpace": 10,
    "RemainParkingSpace": 20,
    "ReservedParkingSpace": 10
  }
]
}

```

TotalParkingSpace: sum of all parking space

UsedParkingSpace: used for hourly parking

RemainParkingSpace: remain for hourly parking

ReservedParkingSpace: the parking space reserved for monthly parking

Data Update through SignalR Path: /dashboard-hub

Method Name: AvailableSpacesInfo

Sample Json:

```

{
  "ParkingZoneId": "2b900579-2570-42d5-b606-4acce208ac7d",
  "ParkingZoneName": "Parking Zone A",
  "TotalParkingSpaces": 48,
  "UsedParkingSpace": 26,
  "RemainParkingSpace": 21,
  "ReservedParkingSpace": 1
}

```

### c. Sample Json for Parking Zone device info

Request API Path: /api/ParkingZone/GetParkingZoneDeviceInfo

Input:

The screenshot shows the 'ParkingZone' API interface. It has a 'GET' method and the path '/api/ParkingZone/GetParkingZoneDeviceInfo'. Under the 'Parameters' section, there are two input fields: 'id' (string, query) with the value '2b900579-2570-42d5-b606-4acce208ac7d' and 'ORGID' (string, header) with the value '51c8c4b8-00bd-4bef-b5a4-d2bdc6187120'. The 'id' field is highlighted with a red box. There is also a red label 'ParkingZoneId' next to the 'id' field. At the bottom, there is an 'Execute' button.

Output:

```

{
  "parkingZoneId": "2b900579-2570-42d5-b606-4acce208ac7d",
  "parkingZoneName": "Parking Zone A",
  "entrance": [
    {
      "entranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
      "entranceName": "Entry-Test",
      "entryType": "Entry",
      "connectorDevices": [
        {

```

```
"deviceId": "d017c10f-a287-4b0f-9742-fb0feb4f9076",
"deviceType": "BarrierGate",
"deviceStatus": 0
},
{
  "deviceId": "74b6f78d-d288-4367-b64e-e5601a90c1d9",
  "deviceType": "InductiveLoopDetector",
  "deviceStatus": 0
},
{
  "deviceId": "b064d7ab-4efb-440c-b9a1-50829b209f0a",
  "deviceType": "OctopusDevice",
  "deviceStatus": 0
},
{
  "deviceId": "258ec6e5-ffe2-4fa9-a47f-0886f018d2dc",
  "deviceType": "InductiveLoopDetector",
  "deviceStatus": 0
},
{
  "deviceId": "5bd24dc2-6253-4180-998e-26083d70f936",
  "deviceType": "Camera",
  "deviceStatus": 0
}
],
{
  "entranceId": "598b38ba-6624-43d4-a0bc-799e956deef8",
  "entranceName": "Exit-Test",
  "entryType": "Exit",
  "connectorDevices": [
    {
      "deviceId": "234a9f1c-8d28-4456-a7c2-3b688626f719",
      "deviceType": "Camera",
      "deviceStatus": 0
    },
    {
      "deviceId": "db4bf8e0-4dd3-4ca0-9671-4f5226884951",
      "deviceType": "InductiveLoopDetector",
      "deviceStatus": 0
    },
    {
      "deviceId": "3171061b-bcb4-4b29-8d20-667f76717df3",
      "deviceType": "BarrierGate",
      "deviceStatus": 0
    },
    {
      "deviceId": "92601a8d-0038-4fbc-893f-30ee0bbb4283",
      "deviceType": "OctopusDevice",
      "deviceStatus": 0
    },
    {
      "deviceId": "a8de6ea4-eec8-4137-9fe3-42b53eb50355",
      "deviceType": "InductiveLoopDetector",
      "deviceStatus": 0
    }
  ]
}
]
```

## Response headers

### For Digital Input Status(Gate input, FrontLoop, Rear Loop)

-1: connector disconnected

0: OFF

1: ON

### For Octopus, Printer, Camera Status

-1: connector disconnected

0: connector connected

## Data Update through SignalR Path: /dashboard-hub

Method Name: GetParkingZoneDeviceInfo

Sample Json:

```
{
  "ParkingZoneId":"2b900579-2570-42d5-b606-4acce208ac7d",
  "ParkingZoneName":"Parking Zone A",
  "Entrance":[
    {
      "EntranceId":"c61fd54c-5b8f-405b-9777-a56d073a5cf6",
      "EntranceName":"Entry-Test",
      "EntryType":"Entry",
      "ConnectorDevices":[
        {
          "DeviceId":"d017c10f-a287-4b0f-9742-fb0feb4f9076",
          "DeviceName":"Barrier Gate 1",
          "DeviceType":"BarrierGate",
          "DeviceStatus":0
        },
        {
          "DeviceId":"74b6f78d-d288-4367-b64e-e5601a90c1d9",
          "DeviceName":"RearLoop 1",
          "DeviceType":"InductiveLoopDetector",
          "DeviceStatus":0
        },
        {
          "DeviceId":"b064d7ab-4efb-440c-b9a1-50829b209f0a",
          "DeviceName":"Octopus 1",
          "DeviceType":"OctopusDevice",
          "DeviceStatus":0
        },
        {
          "DeviceId":"20c824dd-a0c9-422d-9802-78b0d163c8a8",
          "DeviceName":"GateStatus 1",
          "DeviceType":"InductiveLoopDetector",
          "DeviceStatus":0
        },
        {
          "DeviceId":"258ec6e5-ffe2-4fa9-a47f-0886f018d2dc",
          "DeviceName":"FrontLoop 1",
          "DeviceType":"InductiveLoopDetector",
          "DeviceStatus":0
        }
      ]
    }
  ]
}
```

```

{
  "DeviceId":"5bd24dc2-6253-4180-998e-26083d70f936",
  "DeviceName":"Cam 1",
  "DeviceType":"Camera",
  "DeviceStatus":0
}
],
{
  "EntranceId":"598b38ba-6624-43d4-a0bc-799e956deef8",
  "EntranceName":"Exit-Test",
  "EntryType":"Exit",
  "ConnectorDevices":[
    {
      "DeviceId":"234a9f1c-8d28-4456-a7c2-3b688626f719",
      "DeviceName":"Cam 2",
      "DeviceType":"Camera",
      "DeviceStatus":0
    },
    {
      "DeviceId":"db4bf8e0-4dd3-4ca0-9671-4f5226884951",
      "DeviceName":"RearLoop 2",
      "DeviceType":"InductiveLoopDetector",
      "DeviceStatus":0
    },
    {
      "DeviceId":"3171061b-bcb4-4b29-8d20-667f76717df3",
      "DeviceName":"Barrier Gate 1",
      "DeviceType":"BarrierGate",
      "DeviceStatus":0
    },
    {
      "DeviceId":"92601a8d-0038-4fbc-893f-30ee0bbb4283",
      "DeviceName":"Octopus 2",
      "DeviceType":"OctopusDevice",
      "DeviceStatus":0
    },
    {
      "DeviceId":"a8de6ea4-eec8-4137-9fe3-42b53eb50355",
      "DeviceName":"FrontLoop 2",
      "DeviceType":"InductiveLoopDetector",
      "DeviceStatus":0
    },
    {
      "DeviceId":"817ba7d3-c133-41d2-a073-c6633493b4a1",
      "DeviceName":"GateStatus 2",
      "DeviceType":"InductiveLoopDetector",
      "DeviceStatus":0
    }
  ]
}
]
}

```

#### d. Sample Json for entry /exit record

Request API path: /api/CarEntranceHistory

Input:

GET /api/CarEntranceHistory

Parameters

| Name                                    | Description   |
|---|---|
| page<br>integer(\$int32)<br>(query)     | 1   |
| filterBy<br>string<br>(query)           | filterBy  |
| orderBy<br>string<br>(query)            | statusTime desc<br>Order by statusTime desc             |
| pageSize<br>integer(\$int32)<br>(query) | 15  |
| ORGID * required<br>(header)            | Organization Id<br>51c8c4b8-00bd-4bef-b5a4-d2bdc6187120 |

Output:

```
{
  "data": [
    {
      "status": 0,
      "statusTime": "2021-05-27T09:46:53.765153Z",
      "carPlate": null,
      "octopusNumber": null,
      "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
      "id": "cff03d63-3bd0-46b1-8de4-febaf5a4d57e",
      "name": null
    },
    {
      "status": 3,
      "statusTime": "2021-05-27T09:46:45.7435Z",
      "carPlate": null,
      "octopusNumber": "888889",
      "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
      "id": "9b21cfc2-bc2a-4f03-90cd-569ede4c806a",
      "name": null
    },
    {
      "status": 0,
      "statusTime": "2021-05-27T09:46:45.499544Z",
      "carPlate": null,
      "octopusNumber": "888889",
      "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
      "id": "9faf3507-7853-4db9-b68f-7c76e36bdf3c",
      "name": null
    },
    {
      "status": 1,
      "statusTime": "2021-05-27T09:46:30.333912Z",
      "carPlate": null,
      "octopusNumber": null,
      "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
      "id": "cc1c0540-7d26-4513-ac82-420aed393fa7",
      "name": null
    },
    {
      "status": 0,
      "statusTime": "2021-05-27T09:45:59.45524Z",
      "carPlate": null,

```

```
"octopusNumber": null,
"carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
"id": "b4fa016a-a695-46de-b2fc-6cf88726cb57",
"name": null
},
{
  "status": 3,
  "statusTime": "2021-05-27T08:05:18.036282Z",
  "carPlate": null,
  "octopusNumber": "888889",
  "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
  "id": "344060e5-9d7d-4e20-9ed3-253e46d216e8",
  "name": null
},
{
  "status": 1,
  "statusTime": "2021-05-27T08:05:16.463448Z",
  "carPlate": null,
  "octopusNumber": null,
  "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
  "id": "ee2a2cdd-7f41-4d81-8971-d8ab86f0b5ce",
  "name": null
},
{
  "status": 0,
  "statusTime": "2021-05-27T07:59:13.578365Z",
  "carPlate": null,
  "octopusNumber": null,
  "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
  "id": "34f785c1-9434-4151-927e-196827fd2da6",
  "name": null
},
{
  "status": 3,
  "statusTime": "2021-05-27T07:59:06.885635Z",
  "carPlate": null,
  "octopusNumber": "888889",
  "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
  "id": "e9b245d5-41b7-48da-b508-92951084f119",
  "name": null
},
{
  "status": 0,
  "statusTime": "2021-05-27T07:59:06.632224Z",
  "carPlate": null,
  "octopusNumber": "888889",
  "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
  "id": "d29f99dc-8b30-4eda-b0ef-a503fc0025c5",
  "name": null
},
{
  "status": 1,
  "statusTime": "2021-05-27T07:58:38.168769Z",
  "carPlate": null,
  "octopusNumber": null,
  "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
  "id": "2fb9759a-bcfd-4640-8d3e-951cec4da1a9",
  "name": null
},
{
```

```

    "status": 0,
    "statusTime": "2021-05-27T07:58:22.575465Z",
    "carPlate": null,
    "octopusNumber": null,
    "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
    "id": "36d4b7bc-9fcb-4f8f-acb0-441284a9b214",
    "name": null
  },
  {
    "status": 3,
    "statusTime": "2021-05-27T07:55:08.39195Z",
    "carPlate": null,
    "octopusNumber": "888889",
    "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
    "id": "44f055e2-955a-4ae7-9c9d-7fbd41d660fe",
    "name": null
  },
  {
    "status": 1,
    "statusTime": "2021-05-27T07:54:38.620162Z",
    "carPlate": null,
    "octopusNumber": null,
    "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
    "id": "7ef48cf7-cb6b-4b9c-afeb-933fffc03591",
    "name": null
  },
  {
    "status": 0,
    "statusTime": "2021-05-27T07:41:12.063496Z",
    "carPlate": null,
    "octopusNumber": null,
    "carEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
    "id": "aa325cc6-2a1a-4f8f-bc8d-19e76efd51d5",
    "name": null
  }
],
"pageIndex": 1,
"totalPages": 24,
"count": 356,
"pageSize": 15,
"hasPreviousPage": false,
"hasNextPage": true
}

```

#### Response headers

| Status Code | Desc                | System Message   |
|-------------|---------------------|--|
| 0           | ready to entry/exit | Gate Close, Ready for Enter/Exit   |
| 1           | Polling             | Please place octopus card  |
| 2           | Octopus Success     | Card Valid   |
| 3           | Octopus Fail        | Reason:<br>-Fund insufficient<br>-Card Number Different<br>-Card Invalid |
| 4           | Gate Open           | Gate Opened  |
| 5           | Car Entered/Exited  | Car has entered/exited   |



|   |             |             |
|---|-------------|-------------|
| 6 | Manual Open | Manual Open |
|---|-------------|-------------|

Data Update through SignalR Path: /dashboard-hub

Method Name: CarEntranceHistoryMessage

Sample Json

```
[{
  "Status": 3,
  "StatusTime": "2021-07-29T07:28:37.484082",
  "CarPlate": null,
  "OctopusNumber": null,
  "CarEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
  "EntranceName": "Entry-Test",
  "Id": "526a087f-0038-45ae-8ce9-5807f416ad53",
  "Name": null
}, {
  "Status": 1,
  "StatusTime": "2021-07-29T07:27:36.304246",
  "CarPlate": null,
  "OctopusNumber": null,
  "CarEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
  "EntranceName": "Entry-Test",
  "Id": "3438b9fb-b9b6-4691-a325-dcae85d03d3d",
  "Name": null
}, {
  "Status": 0,
  "StatusTime": "2021-07-29T05:43:19.120836",
  "CarPlate": null,
  "OctopusNumber": null,
  "CarEntranceId": "c61fd54c-5b8f-405b-9777-a56d073a5cf6",
  "EntranceName": "Entry-Test",
  "Id": "d6b15ef9-cf63-4fab-91ca-8cc244318023",
  "Name": null
}]
```

e. Sample Input Json for Gate Manual Open

Request API path: not ready

```
{
  "connectorId": "1111-2222-3333-4444",
  "Output": "ManualOpen",
  "Message": "Emergnecy"
}
```