*“DEVICE” Data Structure:*

|  |  |
| --- | --- |
| Field | Description |
| Device ID | Unique device name denoted by the user, e.g SE21 Cameras. |
| Access Rights | Will denote who is allowed view this device |
| Booking Rights | Will denote who is allowed to book this device with / without approval |
| Booking Schedule | Will show all the users who is trying to book the room |
| Department | School department, e.g English |
| Description | Description of device |
| Plan Ahead | Block out booking 30 minutes before timeslot |
| Room Admins | Emails with special privilege |
| Serial Numbers | Array of Device Serial Numbers |
| Quantity | Quantity of Devices |
| Model/Brand | Brand or Model of Device |

Quick Book, Book Recurring, Quick Lock, Lock Recurring, Delete, Contact, Approve, Return

Pick From Available Devices

Pick Borrowing Time Period:

Device Timetables

Your Current Booked Slots

Pick Date

Device XXX

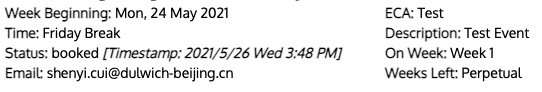
Pick From Available Devices

Device Timetables

Your Current Booked Slots

Pick Date

Device XXX



**Database JSON design:**

{

DeviceID:

AllDeviceArray:[

{

serial: "xxxx",

nickname: "xxxx"

model: ""

brand: ""

},

{

serial: "xxxx",

nickname: "xxxx"

model: ""

brand: ""

}

]

BookingSchedule:{

“DeviceXXX:”{

[

{

status: ["reserved"/"returned"/"pending"/"unbooked"/"locked"],

email: "xxx@email.com",

week: "Week1"/"Week2",

weekBeginningEnding:[

"Mon, 13 Jul 2020",

"Mon, 13 Jul 2020"

],

timeStamp: "2020/4/23 Thur 10:16 PM",

coordinates: {

start:[0,1]

end:[0,5]

},

description: ["TITLE","DESCRIPTION"],

}

],

},

},

Description: "hello"

AccessRights: "TeacherStudent"

BookingRights "StudentValidation"

RoomAdmins:["emails"]

PlanAhead: "30"

Department: “Se21”

}