/api/:role/inStock

Path variables

- role: Role in the Inventory Management

Description

This API allows the retrieval of the in stock levels for all resources in the inventory, based on the role. For example, if the role of INVENTORY_MANAGER is assumed, then the current inventory for the incoming components is returned.

Example

/api/INVENTORY_MANAGER/inStock

Request body

Empty

Response

```
[
{
    "id": "5e19ad6e0274390007e95477",
    "name": "REV",
    "inStock": 5
},
{
    "id": "5e240b010274390007c41802",
    "name": "switch00",
    "inStock": 2
},
{
    "id": "5e2939f60274390007c41842",
    "name": "REV1",
    "inStock": 0
}
```

GET

api/:role/:resource/inStock

Path variables

- role: Role in the Inventory Management
- resource : Resource maintained in the Inventory

Description

This API allows the retrieval of the in stock levels for a particular resource in the inventory, based on the role. For example, if the role of INVENTORY_MANAGER is assumed, then the current inventory for a specific incoming component is returned.

Example

/api/INVENTORY_MANAGER/REV/inStock

Request body

Empty

Response

```
{
    "id": "5e19ad6e0274390007e95477",
    "name": "REV",
    "inStock": 5
}
```

GET

api/:role/:resource/daysOfStock

Path variables

- role : Role in the Inventory Management
- resource : Resource maintained in the Inventory

Description

This API allows the calculation of the days of stock available for a particular resource in the inventory, based on the role and current inventory. For example, if the role of INVENTORY_MANAGER is assumed, then the days of stock available for a specific incoming component is returned.

Example

/api/INVENTORY_MANAGER/REV/inStock

```
Request body
{
     "demand":3
}
demand - daily demand of the resource
```

Response

```
{
    "id": "5e19ad6e0274390007e95477",
    "name": "REV",
    "inStock": 5,
    "daysOfStock": 1
}
```

GET

api/:role/:resource/safetyStock

Path variables

- role : Role in the Inventory Management
- resource : Resource maintained in the Inventory

Description

This API allows the calculation of the safety stock of a particular resource to be maintained, based on the role, lead time, and average demand. For example, if the role of INVENTORY_MANAGER is assumed, then the safety stock to be maintained for a specific incoming component is returned.

Example

/api/INVENTORY_MANAGER/REV/safetyStock

```
Request body
{
    "leadTime":2,
    "demandAvg":5
```

leadTime - Lead time for the resource demandAvg - average demand of the resource in terms of days

Response

```
{
    "id": "5e19ad6e0274390007e95477",
    "name": "REV",
    "safetyStock": 10
}
```

GET

api/:role/:model/components

Path variables

- role : Role in the Inventory Management

- model: Model name of bike

Description

This API allows the retrieval of all the components required to assemble a bike model, and each of the possible choices for the same.

Example

/api/ASSEMBLY_MANAGER/Battre_RS/components

Request body

Empty

Response

```
"Components": {
```

```
"SP1"
"TY1",
"TY2"
"MO2"
"LI2"
"OT1"
```

api/:role/:model/makes

Path variables

- role: Role in the Inventory Management
- model : Model name of bike

Description

This API allows the retrieval of the different makes of a bike model based on the different choices of components that can be used.

Example

/api/ASSEMBLY_MANAGER/Battre_RS/makes

Request body

Empty

Response

api/:role/:model/counts

Path variables

- role: Role in the Inventory Management
- model: Model name of bike

Description

This API allows the retrieval of the number of different makes of a bike model that can be assembled based on the current inventory.

Example

/api/ASSEMBLY_MANAGER/Battre_RS/counts

```
Request body
```

```
[
"available": [9,8,8,9,8,7,8,7,9,8,9,7,9,8]
```

available - list of in stock values for the list of components returned by the api/:role/:model/components api

Response

```
"Configuration": {
    "Co1": 1,
    "Co2": 0,
    "BA1": 1,
    "BA2": 0,
    "SP1": 1,
    "TY1": 1,
    "TY2": 0,
    "Mo1": 1,
    "Mo2": 0,
    "CH1": 1,
    "DC1": 1,
    "LI1": 1,
    "LI2": 0,
    "SW1": 1,
```

```
"OT1": 1
"OT1": 1
```

```
"VehicleCount": 7,

"PostInventory": [

2,

8,

1,

9,

1,

0,

8,

0,

9,

1,

2,

7,

2,

1

]

}, ...
```

api/lm/getData

Path variables

- none

Description

This API extracts details of all the rental subscriptions.

Request body

Empty

Response

```
[
    "id": "5e4e29d524aa9a0007d3b274",
    "vin": "office_test_miracle",
    "startTime": "2020-02-21T00:00:00.0002",
    "endTime": "2020-03-21T00:00:00.0002",
    "status": "BOOKED"
}
```

POST

api/lm/newVehicle/:vin/:offset

Path variables

- vin: Vin of vehicle
- offset : Delay in between subscriptions (in days)

Description

This API adds a new vehicle to the object store (linked list) and initializes it with the provided vin and offset value.

Example

/api/lm/newVehicle/office_test_miracle/1

Request body

Response (if vehicle not already present)

```
{
   "office_test_miracle": {
        "rentalStatus": "BOOKED",
        "offset": 1,
        "next": null
   }
}
```

(if vehicle present)

Vehicle already present

POST

api/lm/addNode/:vin/:id/:after

Path variables

- vin: Vin of vehicle
- id: Id of the rental subscription
- after: Node after which insertion should be done

Description

This API updates the object store with respect to a particular vin, and adds a new node which corresponds to a new rental subscription.

Example

/api/lm/addNode/office_test_miracle/5e4e29d524aa9a0007d3b274/-1

Request body

Request body

```
"office_test_miracle": {
    "rentalStatus": "BOOKED",
    "offset": 1,
    "next": {
        "id": "5e4e29d524aa9a0007d3b274",
        "startTime": "2020-02-21T00:00:00.0002",
        "endTime": "2020-03-21T00:00:00.0002",
        "next": null
    }
}
```

GET

api/lm/availSlots/:vin/:currTS

Path variables

- vin : Vin of vehicle
- currTS: current timestamp to compare with

Description

This API returns the available slots with respect to the rental subscriptions of a vehicle with the specified vin from the object store. The current timestamp is also used if the vehicle is available, to check for a free slot until the next booking

Example

api/lm/availSlots/office_test_miracle/2020-02-19T00:00:00.000Z

Request body

Empty

Response

```
"after": "Current",
    "from": "2020-02-19T00:00:00.000Z",
    "till": "2020-02-21T00:00:00.000Z"
},

{
    "after": "5e4e29d524aa9a0007d3b274",
    "from": "2020-03-22T00:00:00.000Z",
    "till": "NextNewBooking"
}
```

GET

api/lm/getObjectStore

Path variables

- none

Description

This API returns the entire object store with details of the rental subscriptions corresponding to all the vin's.

Request body

Response

```
"office_test_miracle": {
    "rentalStatus": "BOOKED",
    "offset": 1,
    "next": {
        "id": "5e4e29d524aa9a0007d3b274",
        "startTime": "2020-02-21T00:00:00.0002",
        "endTime": "2020-03-21T00:00:00.0002",
        "next": null
    }
}
```

GET

api/lm/getAvail/:vin/:fromTS/:forD ays

Path variables

- vin : Vin of vehicle
- fromTS: timestamp from which vehicle is required
- forDays : number of days for which vehicle is required

Description

This API checks and returns suitable slots for a new rental subscription based on availability, given the period of requirement.

Example

localhost:3000/api/lm/getAvail/office_test_miracle/2020-02-20T00:00:0 0.000Z/2

Response

}

]

POST

api/lm/deleteNode/:vin/:id

Path variables

- vin : Vin of vehicle
- id : Id of the rental subscription

Description

This API updates the object store and deletes a node corresponding to the vehicle vin and the id of the subscription

Example

/api/lm/deleteNode/office_test_miracle/5e4e29d524aa9a0007d3b274

Request body

	Response Node deleted
api/lm/updateObjStore/:vin/:currTS	Path variables