

<p>GET /api/:role/inStock</p>	<p>Path variables</p> <ul style="list-style-type: none">- role : Role in the Inventory Management <p>Description</p> <p>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.</p> <p>Example</p> <p>/api/INVENTORY_MANAGER/inStock</p> <p>Request body</p> <p>Empty</p> <p>Response</p> <pre>[{ "id": "5e19ad6e0274390007e95477", "name": "REV", "inStock": 5 }, { "id": "5e240b010274390007c41802", "name": "switch00", "inStock": 2 }, { "id": "5e2939f60274390007c41842", "name": "REV1", "inStock": 0 }]</pre>
<p>GET api/:role/:resource/inStock</p>	<p>Path variables</p> <ul style="list-style-type: none">- role : Role in the Inventory Management- resource : Resource maintained in the Inventory

	<p>Description</p> <p>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.</p> <p>Example</p> <p>/api/INVENTORY_MANAGER/REV/inStock</p> <p>Request body</p> <p>Empty</p> <p>Response</p> <pre>{ "id": "5e19ad6e0274390007e95477", "name": "REV", "inStock": 5 }</pre>
<p>GET</p> <p>api/:role/:resource/daysOfStock</p>	<p>Path variables</p> <ul style="list-style-type: none">- role : Role in the Inventory Management- resource : Resource maintained in the Inventory <p>Description</p> <p>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.</p> <p>Example</p> <p>/api/INVENTORY_MANAGER/REV/inStock</p> <p>Request body</p> <pre>{ "demand":3 }</pre> <p>demand - daily demand of the resource</p>

	<p>Response</p> <pre>{ "id": "5e19ad6e0274390007e95477", "name": "REV", "inStock": 5, "daysOfStock": 1 }</pre>
<p>GET api/:role/:resource/safetyStock</p>	<p>Path variables</p> <ul style="list-style-type: none"> - role : Role in the Inventory Management - resource : Resource maintained in the Inventory <p>Description</p> <p>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.</p> <p>Example</p> <p>/api/INVENTORY_MANAGER/REV/safetyStock</p> <p>Request body</p> <pre>{ "leadTime":2, "demandAvg":5 }</pre> <p>leadTime - Lead time for the resource demandAvg - average demand of the resource in terms of days</p> <p>Response</p> <pre>{ "id": "5e19ad6e0274390007e95477", "name": "REV", "safetyStock": 10 }</pre>
<p>GET api/:role/:model/components</p>	<p>Path variables</p> <ul style="list-style-type: none"> - 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

```
{
  "List": [
    "CO1",
    "CO2",
    "BA1",
    "BA2",
    "SP1",
    "TY1",
    "TY2",
    "MO1",
    "MO2",
    "CH1",
    "DC1",
    "LI1",
    "LI2",
    "SW1",
    "OT1"
  ],
  "Components": {
    "CONTROLLER": [
      "CO1",
      "CO2"
    ],
    "BATTERY": [
      "BA1",
      "BA2"
    ]
  }
}
```

	<pre>], "SPEEDOMETER": ["SP1"], "TYRE": ["TY1", "TY2"], "MOTOR": ["MO1", "MO2"], "CHASSIS": ["CH1"], "DC-DC CONVERTER": ["DC1"], "LIGHTS": ["LI1", "LI2"], "SWITCHES": ["SW1"], "OTHERS": ["OT1"]] }</pre>
GET api/:role/:model/makes	<p>Path variables</p> <ul style="list-style-type: none">- role : Role in the Inventory Management- model : Model name of bike <p>Description</p> <p>This API allows the retrieval of the different makes of a bike model based on the different choices of components that can be used.</p>

Example

/api/ASSEMBLY_MANAGER/Battre_RS/makes

Request body

Empty

Response

```
{
  "Combinations": [
    [
      "CO1",
      "BA1",
      "SP1",
      "TY1",
      "MO1",
      "CH1",
      "DC1",
      "LI1",
      "SW1",
      "OT1"
    ],
    [
      "CO1",
      "BA1",
      "SP1",
      "TY1",
      "MO1",
      "CH1",
      "DC1",
      "LI2",
      "SW1",
      "OT1"
    ],
    [
      "CO1",
      "BA1",
      "SP1",
      .
    ]
  ]
}
```

	<div></div>
<div>GET api/:role/:model/counts</div>	<div><div>Path variables</div><div><div>- role : Role in the Inventory Management</div><div>- model : Model name of bike</div></div><div><div>Description</div><div>This API allows the retrieval of the number of different makes of a bike model that can be assembled based on the current inventory.</div></div><div><div>Example</div><div>/api/ASSEMBLY_MANAGER/Battre_RS/counts</div></div><div><div>Request body</div><div><div>{ "available": [9,8,8,9,8,7,8,7,9,8,9,7,9,8] }</div><div>available - list of in stock values for the list of components returned by the api/:role/:model/components api</div></div></div><div><div>Response</div><div><div>[{ "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, </div></div></div></div>

```
        "OT1": 1
    },
    "VehicleCount": 7,
    "PostInventory": [
        2,
        8,
        1,
        9,
        1,
        0,
        8,
        0,
        9,
        1,
        2,
        0,
        9,
        1
    ]
},
{
    "Configuration": {
        "CO1": 1,
        "CO2": 0,
        "BA1": 1,
        "BA2": 0,
        "SP1": 1,
        "TY1": 1,
        "TY2": 0,
        "MO1": 1,
        "MO2": 0,
        "CH1": 1,
        "DC1": 1,
        "LI1": 0,
        "LI2": 1,
        "SW1": 1,
        "OT1": 1
    }
},
```



```
"VehicleCount": 7,  
  "PostInventory": [  
    2,  
    8,  
    1,  
    9,  
    1,  
    0,  
    8,  
    0,  
    9,  
    1,  
    2,  
    7,  
    2,  
    1  
  ]  
}, ...
```