

InFactory RESTful API Usage [h1]

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POST

Document

- URI : <http://{baseurl}/documents/{id}>
- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

Indoorfeatures

- URI : <https://{baseurl}/documents/{docId}/indoorfeatures/{id}>
- Body
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```
{
  "type": "IndorFeatures",
  "id": "if1",                // id of the indoorfeatures
  "docId": "doc1"            // id of the document which this elements are
                             contained.
}
```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

PrimalSpaceFeatures

- URI : <http://{baseurl}/documents/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```

{
  "type": "PrimalSpaceFeatures",
  "parentId": "if1",           // * id of indoorfeatures
  "id": "psf1",               // id of primalspacefeature
  "docId": "doc1",           // id of document
  "properties": {
    "cellSpaceMember": [],    // array of the id of the CellSpace
    features
    "cellSpaceBoundaryMember": [] // array of the id of the
    CellSpaceBoundary features
  }
}

```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

CellSpace

- URI : <https://{baseurl}/documents/{docId}/cellspace/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```

{
  "type": "CellSpace",
  "geometry": {
    "type": "Solid",          // type of the geometry, Surface or
Solid
    "coordinates": "SOLID (((((19.72358109006243 280.16515285856246,
14.89372379039174 184.27053156328256, 74.16924519544114 187.03672256218485,
79.87725836777923 274.63277086075783, 19.72358109006243 280.16515285856246))),
((19.72358109006243 280.16515285856246, 14.89372379039174 184.27053156328256,
14.89372379039174 184.27053156328256, 19.72358109006243 280.16515285856246,
19.72358109006243 280.16515285856246)), ((14.89372379039174 184.27053156328256,
74.16924519544114 187.03672256218485, 74.16924519544114 187.03672256218485,
14.89372379039174 184.27053156328256, 14.89372379039174 184.27053156328256))),
((74.16924519544114 187.03672256218485, 79.87725836777923 274.63277086075783,
79.87725836777923 274.63277086075783, 74.16924519544114 187.03672256218485,
74.16924519544114 187.03672256218485)), ((79.87725836777923 274.63277086075783,
19.72358109006243 280.16515285856246, 19.72358109006243 280.16515285856246,
79.87725836777923 274.63277086075783, 79.87725836777923 274.63277086075783))),
((19.72358109006243 280.16515285856246, 79.87725836777923 274.63277086075783,
74.16924519544114 187.03672256218485, 14.89372379039174 184.27053156328256,
19.72358109006243 280.16515285856246))))", // *
    "properties": {
      "id": "CG-C1",          // id of the geometry feature, if user
did'nt send this data,
      "type": "wkt"          // this will be random uuid
    }
  },
  "parentId": "psf1",        // id of primalspacefeatures
  "id": "c1",                // id of cellspace
  "docId": "doc1",           // id of document
  "properties": {
    "name": "Room1",         // name of cellspace
    "description": "storey=\"F1\"", // descript of cellspace
    "duality": "S1",
    "partialboundedBy": [ "B1" ] // array of partialboundedBy
  }
}

```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

CellSpaceBoundary

- URI : <https://{baseurl}/documents/{docId}/cellspaceboundary/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"

- The content of the body

```
{
  "type": "CellSpaceBoundary",
  "geometry": {
    "type": "Surface",
    "coordinates": "POLYGON ((75.83762997693377 212.64001209355249,
77.1799235154066 233.23905524165497, 78.61318266124694 255.23407059512775,
78.61318266124694 255.23407059512775, 77.1799235154066 233.23905524165497,
75.83762997693377 212.64001209355249, 75.83762997693377 212.64001209355249)))",
    // *
  },
  "properties": {
    "id": "CBG-B1",
    "type": "wkt"
  }
},
"parentId": "psf1", // *
"id": "B1",
"docId": "doc1",
"properties": {
  "duality": "T1",
  "name": "B1",
  "description": ""
}
}
```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

MultiLayeredGraph

- URI : <https://{baseurl}/documents/{docId}/multilayeredgraph/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```
{
  "type": "MultiLayeredGraph",
  "parentId": "if1",          // *
  "id": "mlg1",
  "docId": "doc1",
  "properties": {
    "spaceLayers": [],
    "interEdges": []
  }
}
```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

SpaceLayers

- URI : <https://{baseUrl}/documents/{docId}/spacelayers/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```
{
  "type": "SpaceLayers",
  "parentId": "mlg1",        // *
  "id": "sls1",
  "docId": "doc1",
  "properties": {
    "spaceLayerMember": []
  }
}
```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

SpaceLayer

- URI : <https://{baseUrl}/documents/{docId}/spacelayer/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```
{
  "type": "SpaceLayer",
  "parentId": "sls1",    // *
  "id": "sl1",
  "docId": "doc1",
  "properties": {
    "nodes": ["n1"],
    "edges": ["e1"]
  }
}
```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

Nodes

- URI : <https://{baseUrl}/documents/{docId}/nodes/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```
{
  "type": "Nodes",
  "parentId": "sl1",
  "id": "n1",
  "docId": "doc1",
  "properties": {
    "stateMember": ["S1", "S2"]
  }
}
```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

State

- URI : <https://{baseUrl}/documents/{docId}/state/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```
{
  "type": "State",
  "geometry": {
    "type": "Point",
    "coordinate": "POINT (46.727489855824075 231.70990194820484)", // *
    "properties": {
      "id": "SG-S1",
      "type": "wkt"
    }
  },
  "parentId": "n1",          // *
  "id": "S1",
  "docId": "doc1",
  "properties": {
    "duality": "C1",
    "name": "S1",
    "description": "",
    "connects": [
      "T1",
      "T2"
    ]
  }
}
```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

Edges

- URI : <https://{baseurl}/documents/{docId}/edges/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```
{
  "type": "Edges",
  "parentId": "s1", // *
  "id": "e1",
  "docId": "doc1",
  "properties": {
    "transitionMember": ["T1","T2"]
  }
}
```

- Response

- Status : 201 CREATED / 404 NOT FOUND
- Content-Type : None

Transition

- URI : <https://{baseurl}/documents/{docId}/transition/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```
{
  "type": "Transition",
  "geometry": {
    "type": "Curve",
    "coordinate": "LINESTRING (46.727489855824075 231.70990194820484,
77.1799235154066 233.23905524165497, 110.03558612534796 234.12894780974594)", //
*
    "properties": {
      "id": "TG-T1",
      "type": "wkt"
    }
  },
  "parentId": "e1",          // *
  "id": "T1",
  "docId": "doc1",
  "properties": {
    "duality": "B1",
    "name": "T1",
    "description": "",
    "connects": [ "S1", "S2" ]
  }
}
```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

InterEdges

- URI : <https://{baseurl}/documents/{docId}/interedges/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body


```
{
  "docId":"doc1",
  "parentId":"mlg1",    // *
  "id":"ie1"
}
```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None

InterlayerConnection

- URI : <https://{baseUrl}/documents/{docId}/interlayerconnection/{id}>
 - Content-Type : "application/json"
 - Accept : "application/json"
 - The content of the body

```
{
  "parentId":"ie1",      // *
  "properties":{
    "comment":"",
    "interConnects":["S1","S3"],
    "connectedLayers":["s11","s12"],
    "typeOfTopoExpression":"CONTAINS"
  }
}
```

- Response
 - Status : 201 CREATED / 404 NOT FOUND
 - Content-Type : None