Robot API

http://127.0.0.1:8000/api

Table of contents

/robot

GET /robot

Retrieves the list of all existing robots

```
GET /robot
```

Response 200

Returns the list of robots

Body

POST /robot

Creates a new robot.

```
POST /robot
```

Body

Response 201

Creates a new robot with the given properties

Body

Response 400

Invalid request

GET /robot/{robotId}

Retrieves the properties of a robot

```
GET /robot/{robotId}
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

Response 200

Returns the description of the robot

Body

PUT /robot/{robotId}

Sets the properperties of a robot

```
PUT /robot/{robotId}
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

Body

Response 202

Returns the new description of the robot

Body

Response 400

Invalid request

DELETE /robot/{robotId}

Deletes a robot

```
DELETE /robot/{robotId}
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

Response 204

GET /robot/{robotId}/joint

Lists all joints of a robot

```
GET /robot/{robotId}/joint
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

Response 200

Returns the list of joints of the robot

Body

GET /robot/{robotId}/joint/{jointId}

Retrieves the properties of a joint

```
GET /robot/{robotId}/joint/{jointId}
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

- **jointId**: *required (string)*

Response 200

Returns the description of the joint

Body

PUT /robot/{robotId}/joint/{jointId}

Sets the properperties of a joint

```
PUT /robot/{robotId}/joint/{jointId}
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

- **jointId**: *required (string)*

Body

Response 202

Returns the new description of the joint

Body

Response 400

Invalid request

GET /robot/{robotId}/link

Lists all links of a robot

```
GET /robot/{robotId}/link
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

Response 200

Returns the list of links of the robot

Body

POST /robot/{robotId}/link

Creates a new link in the robot

```
POST /robot/{robotId}/link
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

Body

Response 201

Returns the description of the created link

Body

Response 400

Invalid request

GET /robot/{robotId}/link/{linkId}

Retrieves the properties of a link

```
GET /robot/{robotId}/link/{linkId}
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

- **linkId**: *required (string)*

Response 200

Returns the description of the link

Body

PUT /robot/{robotId}/link/{linkId}

Sets the properperties of a link

```
PUT /robot/{robotId}/link/{linkId}
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

- **linkId**: *required (string)*

Body

Response 202

Returns the new description of the robot

Body

Response 400

Invalid request

DELETE /robot/{robotId}/link/{linkId}

Deletes a link

```
DELETE /robot/{robotId}/link/{linkId}
```

URI Parameters

- **robotId**: *required (string)*

The robot unique Id

- **linkId**: *required (string)*

Response 204

GET /robot/{robotId}/link/{linkId}/geometry

Lists all geometries of a link

```
GET /robot/{robotId}/link/{linkId}/geometry
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

- **linkId**: *required (string)*

Response 200

Returns the list of geometries of the link

Body

POST /robot/{robotId}/link/{linkId}/geometry

Creates a new geometry in the link

```
POST /robot/{robotId}/link/{linkId}/geometry
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

- **linkId**: *required (string)*

Body

Response 201

Returns the new description of the created geometry

Body

Response 400

Invalid request

GET /robot/{robotId}/link/{linkId}/geometry/{geometryId}

Retrieves the properties of a geometry

```
GET /robot/{robotId}/link/{linkId}/geometry/{geometryId}
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

- **linkId**: *required (string)*

- **geometryId**: *required (string)*

Response 200

Returns the description of the geometry

Body

PUT /robot/{robotId}/link/{linkId}/geometry/{geometryId}

Sets the properperties of a geometry

```
PUT /robot/{robotId}/link/{linkId}/geometry/{geometryId}
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

- **linkId**: *required (string)*

- **geometryId**: *required (string)*

Body

Response 202

Returns the new description of the geometry

Body

Response 400

Invalid request

DELETE /robot/{robotId}/link/{linkId}/geometry/{geometryId}

Deletes a geometry

```
DELETE /robot/{robotId}/link/{linkId}/geometry/{geometryId}
```

URI Parameters

- **robotId**: *required (string)*
  The robot unique Id

- **linkId**: *required (string)*

- **geometryId**: *required (string)*

Response 204