Robot API

http://127.0.0.1:8000/api

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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 given its name

```
POST /robot
```

Body

Response 201

The robot was successfully created. Returns the description of the created robot

Body

Response 400

Invalid request. The JSON arguments was invalid. The robot wasn't created.

GET /robot/{robotId}

Retrieves the desciption of a robot

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

URI Parameters

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

Response 200

Returns the description of the robot

Body

Response 404

If robotId is invalid

PUT /robot/{robotId}

Sets the properperties of a robot. All empty fields are left as-if. At least one field must be filled.

```
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. The JSON arguments was invalid. The robot wasn't modified.

Response 404

If robotId is invalid

DELETE /robot/{robotId}

Deletes a robot

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

URI Parameters

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

Response 204

The robot was successfuly deleted

Response 404

If robotId is invalid

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

Response 404

If robotId is invalid

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

Retrieves the description of a joint

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

URI Parameters

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

- **jointId**: *required (string)*
  The joint unique Id

Response 200

Returns the description of the joint

Body

Response 404

If robotId or jointId is invalid

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

Sets the properperties of a joint. All empty fields are left as-if. At least one field must be filled.

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

URI Parameters

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

- **jointId**: *required (string)*
  The joint unique Id

Body

Response 202

Returns the new description of the joint

Body

Response 400

Invalid request. The JSON arguments was invalid. The joint wasn't modified.

Response 404

If robotId or jointId is invalid

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

Response 404

If robotId is invalid

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

The link was successfully created. Returns the description of the created link

Body

Response 400

Invalid request. The JSON arguments was invalid. The link wasn't created.

Response 404

If robotId is invalid

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

Retrieves the description of a link

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

URI Parameters

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

- **linkId**: *required (string)*
  The link unique Id

Response 200

Returns the description of the link

Body

Response 404

If robotId or linkId is invalid

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

Sets the properperties of a link. All empty fields are left as-if. At least one field must be filled.

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

URI Parameters

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

- **linkId**: *required (string)*
  The link unique Id

Body

Response 202

Returns the new description of the robot

Body

Response 400

Invalid request. The JSON arguments was invalid. The link wasn't modified.

Response 404

If robotId or linkId is invalid

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)*
  The link unique Id

Response 204

The link was successfuly deleted

Response 404

If robotId or linkId is invalid

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)*
  The link unique Id

Response 200

Returns the list of geometries of the link

Body

Response 404

If robotId or linkId is invalid

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)*
  The link unique Id

Body

Response 201

Returns the new description of the created geometry

Body

Response 400

Invalid request. The JSON arguments was invalid. The geometry wasn't created.

Response 404

If robotId or linkId is invalid

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)*
  The link unique Id

- **geometryId**: *required (string)*
  The link unique Id

Response 200

Returns the description of the geometry

Body

Response 404

If robotId, linkId or geometryId is invalid

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)*
  The link unique Id

- **geometryId**: *required (string)*
  The link unique Id

****

Response 202

Returns the new description of the geometry

****

Response 400

Invalid request. The JSON arguments was invalid. The geometry wasn't modified.

Response 404

If robotId, linkId or geometryId is invalid

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)*
  The link unique Id

- **geometryId**: *required (string)*
  The link unique Id

Response 204

The geometry was successfuly deleted

Response 404

If robotId, linkId or geometryId is invalid