API Reference

Mozaik Visualization

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API

1. ADS

Everything about analysis data structures

1.1 GET /analysis_ds

Get specific ADS

Returns different schema of ADS depending on the provided identifier. May require to issue other requests to get all of the data.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	
*identifier	enum ALLOWED: SingleValue, SingleValueList, PerNeuronValue, PerNeuronPairValue, AnalogSignal, AnalogSignalList, PerNeuronPairAnalogSignalList, ConductanceSignalList, Connections	
stimulus	object	
sheet	string	
*algorithm	string	
valueName	string	
neuron	string	
tags	array of string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - application/json

```
{
  tags        [string]
  unit        string
  sheet       string
  neuron      integer
  period      number
  stimulus {
  }
  algorithm   string
  valueName   string
  identifier  enum      ALLOWED:SingleValue, SingleValueList, PerNeuronValue,
                        PerNeuronPairValue, AnalogSignal, AnalogSignalList,
                        PerNeuronPairAnalogSignalList, ConductanceSignalList,
                        Connections
}
```

STATUS CODE - 400: Invalid parameters or unimplemented ADS type

1.2 GET /analysis_ds/all

Get list of all ADS

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - application/json

```
[{
Array of object:
  tags        [string]
  unit        string
  sheet       string
  neuron      integer
  period      number
  stimulus {
  }
  algorithm   string
  valueName   string
  identifier  enum      ALLOWED:SingleValue, SingleValueList, PerNeuronValue,
                        PerNeuronPairValue, AnalogSignal, AnalogSignalList,
                        PerNeuronPairAnalogSignalList, ConductanceSignalList,
                        Connections
}]
```

STATUS CODE - 400: Invalid parameters supplied

1.3 GET /analysis_ds/asl

Get ASL values

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	
stimulus	object	
sheet	string	
*algorithm	string	
valueName	string	
neuron	string	

NAME	TYPE	DESCRIPTION
tags	array of string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - text/csv

string

STATUS CODE - 400: Invalid parameters supplied

1.4 GET /analysis_ds/pnpv

Get PNPV values

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	
stimulus	object	
sheet	string	
*algorithm	string	
valueName	string	
neuron	string	
tags	array of string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - text/csv

string

STATUS CODE - 400: Invalid parameters supplied

2. FILESYSTEM

Access to the filesystem

2.1 GET /fs/directory

Get listing of a directory

Lists all datastores and directories in the provided directory

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
path	string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - application/json

```
{
  name      string
  content   [string]
  datastore boolean
}
```

STATUS CODE - 400: Invalid path supplied

2.2 GET /fs/recursive

Get recursive listing of a directory

Lists all directories in the provided directory and its descendants. Collapses directory paths and filters out paths with no datastores.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
path	string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - application/json

```
{
  name      string
```

```
  content [{
  Array of object:
  }]
  datastore boolean
}
```

STATUS CODE - 400: Invalid path supplied

3. MODEL

Access to sheets and connections

3.1 GET /model

Get model metadata

Get sheet names and count of neurons for each of them, as well as count of connections between each of them

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - application/json

```
{
  sheets [{
  Array of object:
    size  integer
    label string
  }]
  connections [{
  Array of object:
    src    string
    size   integer
    target string
  }]
}
```

STATUS CODE - 400: Invalid parameters supplied

3.2 GET /model/positions

Get neuron positions for a given sheet

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	
*sheet	string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - text/csv

`string`
id,x,y

STATUS CODE - 400: Invalid parameters supplied

3.3 GET /model/connections

Get connections between two sheets

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	
*src	string	
*tgt	string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - text/csv

`string`
srcIndex,tgtIndex,weight,delay

STATUS CODE - 400: Invalid parameters supplied