
Movement Validation Documentation

Release 0.1

Joe Bowen

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This was originally created by @joebowen on behalf of the OpenWorm project.

Overview:

Movement Validation Cloud

1.1 Openworm_Project/Openworm

1.1.1 Openworm/admin.py

1.1.2 Openworm/forms.py

1.1.3 Openworm/models.py

```

class Openworm.models.Aspect (id, timestamp, name, description)
class Openworm.models.Bodypart (id, timestamp, name, description, startskeletonindex, endskeletonindex, startskeletonindexdeprecated, endskeletonindexdeprecated)
class Openworm.models.Category (id, timestamp, name, description)
class Openworm.models.Computervisionalgorithm (id, timestamp, name, description, framebyframe, author, academicpaper, code)
class Openworm.models.Direction (id, timestamp, name, description)
class Openworm.models.Experimenter (id, labkey, timestamp, name, description)
class Openworm.models.Featuresperplatewireframe (id, platefeaturekey, timestamp, value, platewireframevideokey)
class Openworm.models.Featuresperwormwireframe (id, wormfeaturekey, wormwireframekey, timestamp, value)
class Openworm.models.Histogramsperplatewireframe (id, platewireframevideokey, timestamp, bins, counts)
class Openworm.models.Histogramsperwormwireframe (id, eventdirectionkey, wormfeaturekey, wormwireframekey, signkey, timestamp, bins, counts)
class Openworm.models.Lab (id, timestamp, name, description, address)
class Openworm.models.Measurementsperwormwireframe (id, wormmeasurementkey, wormwireframekey, timestamp, value)
class Openworm.models.Plate (id, experimenterkey, wormlistkey, name, timestamp, sampletype, startdatetime, copyright, vulvaorientation, annotation, chemicals, food, illumination, temperature, tracker, agarside, gasconcentration)
class Openworm.models.Platefeature (id, timestamp, name, description, title, shorttitle)

```

```
class Openworm.models.Platerawvideo(id, platekey, timestamp, name, description, title, shorttitle,
                                     videofileurl, fps, numframes, width, height, micronsperpixel)
class Openworm.models.Platawireframevideo(id, platerawvideokey, cvalgorithmkey, timestamp,
                                           name, wireframevideo, droppedframeinfo)
class Openworm.models.Sign(id, timestamp, name, description)
class Openworm.models.Strain(id, timestamp, name, gene, genotype, allele, chromosome, simulated)
class Openworm.models.Type(id, timestamp, name, description)
class Openworm.models.Worm(id, strainkey, timestamp, name, sex, thaweddate, generationssincethawing,
                           habituation)
class Openworm.models.Wormfeature(id, typekey, categorykey, directionkey, aspectkey, bodypartkey,
                                  featureindex, timestamp, title, shorttitle, description, bin_width,
                                  is_signed, is_time_series, is_zero_bin, units, signed_field, re-
                                  move_partial_events, make_zero_if_empty, name)
class Openworm.models.Worminteraction(id, platawireframevideokey, wormlistkey, timestamp,
                                       framebyframewormparticipation, area, interactiontype,
                                       startframe, endframe)
class Openworm.models.Wormlist(id, wormkey, timestamp, name)
class Openworm.models.Wormmeasurement(id, timestamp, name, description)
class Openworm.models.Wormwireframevideo(id, platawireframevideokey, timestamp, name, wire-
                                          framevideo, droppedframeinfo)
```

1.1.4 Openworm/serializers.py

1.1.5 Openworm/tests.py

1.1.6 Openworm/urls.py

1.1.7 Openworm/views.py

`Openworm.views.get_urls()`

Recursively builds a list of all the urls in the current project and the name of their associated view

1.2 Openworm_Project/Openworm_Project

1.2.1 Openworm_Project/settings.py

Django settings for Openworm_Project project.

For more information on this file, see <https://docs.djangoproject.com/en/1.6/topics/settings/>

For the full list of settings and their values, see <https://docs.djangoproject.com/en/1.6/ref/settings/>

1.2.2 Openworm_Project/urls.py

1.2.3 Openworm_Project/wsgi.py

WSGI config for Openworm_Project project.

It exposes the WSGI callable as a module-level variable named `application`.

For more information on this file, see <https://docs.djangoproject.com/en/1.6/howto/deployment/wsgi/>

`Openworm_Project.wsgi.application = <django.core.handlers.wsgi.WSGIHandler object>`

```
def application(environ, start_response):
```

```
    if environ['mod_wsgi.process_group'] != '': import signal os.kill(os.getpid(), signal.SIGINT)
    return ["killed"]
```

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