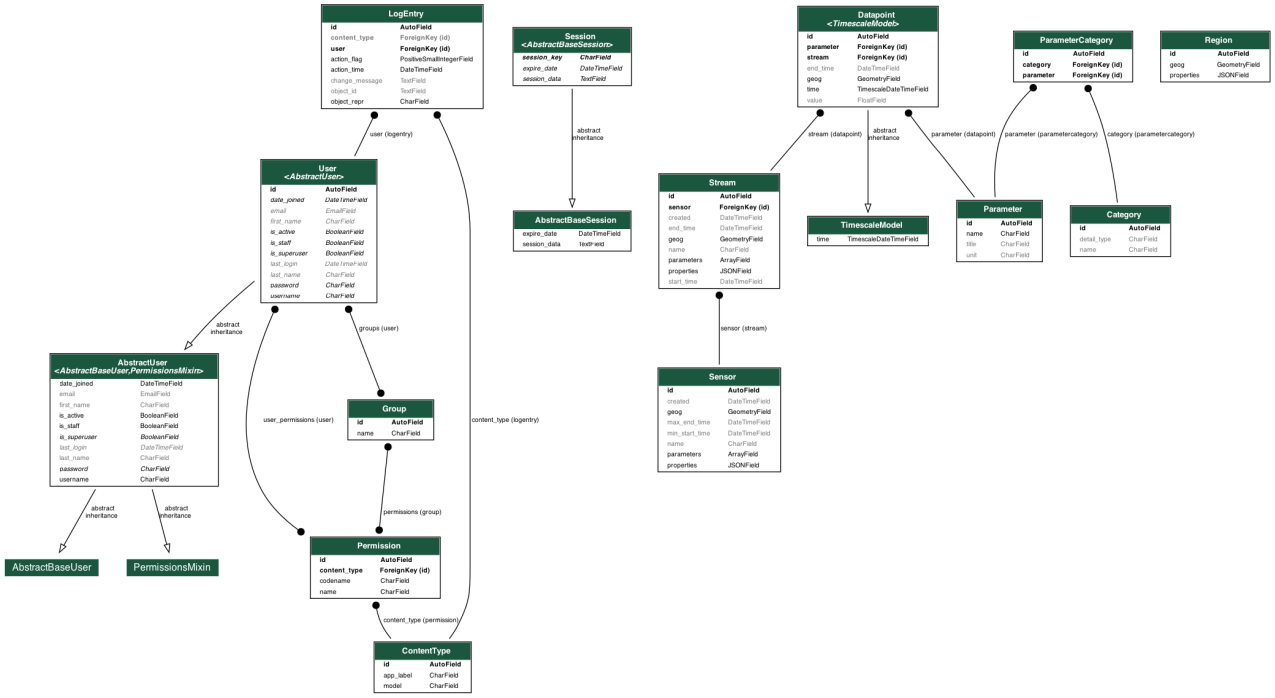
Geostreams 3 - Updates

15 Nov 2023

UML Diagram



PlantUML Code

```
@startuml
class "admin.LogEntry <Administration>" as admin.LogEntry #f4d6f1 {
    log entry
    --
    - id (AutoField)
    + action_time (DateTimeField)
    ~ user (ForeignKey)
    ~ content_type (ForeignKey)
    + object_id (TextField)
    + object_repr (CharField)
    + action_flag (PositiveSmallIntegerField)
    + change_message (TextField)
    --
}
admin.LogEntry -- auth.User
admin.LogEntry -- contenttypes.ContentType


class "auth.Permission <Authentication and Authorization>" as auth.Permission #e8f4d6 {
    permission
    --
    - id (AutoField)
    + name (CharField)
    ~ content_type (ForeignKey)
    + codename (CharField)
    --
}
auth.Permission -- contenttypes.ContentType


class "auth.Group <Authentication and Authorization>" as auth.Group #e8f4d6 {
```

```
    group
    --
    - id (AutoField)
    + name (CharField)
    # permissions (ManyToManyField)
    --
}
auth.Group *--* auth.Permission


class "auth.User <Authentication and Authorization>" as auth.User #e8f4d6 {
    user
    --
    - id (AutoField)
    + password (CharField)
    + last_login (DateTimeField)
    + is_superuser (BooleanField)
    + username (CharField)
    + first_name (CharField)
    + last_name (CharField)
    + email (EmailField)
    + is_staff (BooleanField)
    + is_active (BooleanField)
    + date_joined (DateTimeField)
    # groups (ManyToManyField)
    # user_permissions (ManyToManyField)
    --
}
auth.User *--* auth.Group
auth.User *--* auth.Permission


class "contenttypes.ContentType <Content Types>" as contenttypes.ContentType #d6f4de {
    content type
    --
    - id (AutoField)
    + app_label (CharField)
    + model (CharField)
    --
}


class "sessions.Session <Sessions>" as sessions.Session #f4e1d6 {
    session
    --
    + session_key (CharField)
    + session_data (TextField)
    + expire_date (DateTimeField)
    --
}


class "sensordata.Category <Sensordata>" as sensordata.Category #ebf4d6 {
    category
    --
    - id (AutoField)
    + name (CharField)
    + detail_type (CharField)
    --
}


class "sensordata.Parameter <Sensordata>" as sensordata.Parameter #ebf4d6 {
    parameter
    --
    - id (AutoField)
    + name (CharField)
    + title (CharField)
    + unit (CharField)
    --
}


class "sensordata.ParameterCategory <Sensordata>" as sensordata.ParameterCategory #ebf4d6 {
    parameter category
    --
    - id (AutoField)
    ~ parameter (ForeignKey)
    ~ category (ForeignKey)
    --
}
sensordata.ParameterCategory -- sensordata.Parameter
sensordata.ParameterCategory -- sensordata.Category
```

```
class "sensordata.Region <Sensordata>" as sensordata.Region #ebf4d6 {
    region
    --
    - id (AutoField)
    + geog (GeometryField)
    + properties (JSONField)
    --
}


class "sensordata.Sensor <Sensordata>" as sensordata.Sensor #ebf4d6 {
    sensor
    --
    - id (AutoField)
    + name (CharField)
    + geog (GeometryField)
    + created (DateTimeField)
    + parameters (ArrayField)
    + properties (JSONField)
    + min_start_time (DateTimeField)
    + max_end_time (DateTimeField)
    --
}


class "sensordata.Stream <Sensordata>" as sensordata.Stream #ebf4d6 {
    stream
    --
    - id (AutoField)
    ~ sensor (ForeignKey)
    + name (CharField)
    + geog (GeometryField)
    + created (DateTimeField)
    + parameters (ArrayField)
    + properties (JSONField)
    + start_time (DateTimeField)
    + end_time (DateTimeField)
    --
}
sensordata.Stream -- sensordata.Sensor


class "sensordata.Datapoint <Sensordata>" as sensordata.Datapoint #ebf4d6 {
    datapoint
    --
    - id (AutoField)
    ~ stream (ForeignKey)
    + geog (GeometryField)
    + time (TimescaleDateTimeField)
    + end_time (DateTimeField)
    ~ parameter (ForeignKey)
    + value (FloatField)
    --
}
sensordata.Datapoint -- sensordata.Stream
sensordata.Datapoint -- sensordata.Parameter


@enduml
```

List of Routes

URL Pattern	View Function	Name
/admin/	django.contrib.admin.sites.index	admin:index
/admin/<app_label>/	django.contrib.admin.sites.app_index	admin:app_list
/admin/	django.contrib.admin.sites.catch_all_view	
/admin/auth/group/	django.contrib.admin.options. changelist_view	admin:auth_group_changelist
/admin/auth/group/path:object_id/	django.views.generic.base.RedirectView	
/admin/auth/group/path:object_id/change/	django.contrib.admin.options.change_view	admin:auth_group_change
/admin/auth/group/path:object_id/delete/	django.contrib.admin.options.delete_view	admin:auth_group_delete

/admin/auth/group/path:object_id/history/	django.contrib.admin.options.history_view	admin:auth_group_history
/admin/auth/group/add/	django.contrib.admin.options.add_view	admin:auth_group_add
/admin/auth/user/	django.contrib.admin.options. changelist_view	admin:auth_user_changelist
/admin/auth/user//password/	django.contrib.auth.admin. user_change_password	admin:auth_user_password_change
/admin/auth/user/path:object_id/	django.views.generic.base.RedirectView	
/admin/auth/user/path:object_id/change/	django.contrib.admin.options.change_view	admin:auth_user_change
/admin/auth/user/path:object_id/delete/	django.contrib.admin.options.delete_view	admin:auth_user_delete
/admin/auth/user/path:object_id/history/	django.contrib.admin.options.history_view	admin:auth_user_history
/admin/auth/user/add/	django.contrib.auth.admin.add_view	admin:auth_user_add
/admin/autocomplete/	django.contrib.admin.sites. autocomplete_view	admin:autocomplete
/admin/jsi18n/	django.contrib.admin.sites.i18n_javascript	admin:jsi18n
/admin/login/	django.contrib.admin.sites.login	admin:login
/admin/logout/	django.contrib.admin.sites.logout	admin:logout
/admin/password_change/	django.contrib.admin.sites. password_change	admin:password_change
/admin/password_change/done/	django.contrib.admin.sites. password_change_done	admin:password_change_done
/admin/r/int:content_type_id/path:object_id/	django.contrib.contenttypes.views.shortcut	admin:view_on_site
/api/	rest_framework.routers.APIRootView	api-root
/api/./	rest_framework.routers.APIRootView	api-root
/api/cache/day/	sensordata.views.DatapointsViewSet	get_daily_average_datapoints_by_parameter
/api/cache/hour/	sensordata.views.DatapointsViewSet	get_hourly_average_datapoints_by_parameter
/api/cache/month/	sensordata.views.DatapointsViewSet	get_monthly_average_datapoints_by_parameter
/api/cache/year/	sensordata.views.DatapointsViewSet	get_yearly_average_datapoints_by_parameter
/api/categories/	sensordata.views.CategoriesViewSet	categories-list
/api/categories//	sensordata.views.CategoriesViewSet	categories-detail
/api/categories/./	sensordata.views.CategoriesViewSet	categories-detail
/api/categories./	sensordata.views.CategoriesViewSet	categories-list
/api/datapoints/	sensordata.views.DatapointsViewSet	sensordata-list
/api/datapoints//	sensordata.views.DatapointsViewSet	sensordata-detail
/api/datapoints/./	sensordata.views.DatapointsViewSet	sensordata-detail
/api/datapoints /get_daily_average_datapoints_by_parameter/	sensordata.views.DatapointsViewSet	sensordata-get-daily-average-datapoints-by-parameter
/api/datapoints /get_daily_average_datapoints_by_parameter./	sensordata.views.DatapointsViewSet	sensordata-get-daily-average-datapoints-by-parameter
/api/datapoints /get_hourly_average_datapoints_by_parameter/	sensordata.views.DatapointsViewSet	sensordata-get-hourly-average-datapoints-by-parameter
/api/datapoints /get_hourly_average_datapoints_by_parameter./	sensordata.views.DatapointsViewSet	sensordata-get-hourly-average-datapoints-by-parameter
/api/datapoints /get_monthly_average_datapoints_by_parameter/	sensordata.views.DatapointsViewSet	sensordata-get-monthly-average-datapoints-by-parameter
/api/datapoints /get_monthly_average_datapoints_by_parameter./	sensordata.views.DatapointsViewSet	sensordata-get-monthly-average-datapoints-by-parameter

/api/datapoints /get_yearly_average_datapoints_by_parameter/	sensordata.views.DatapointsViewSet	sensordata-get-yearly-average-datapoints-by-parameter
/api/datapoints /get_yearly_average_datapoints_by_parameter./	sensordata.views.DatapointsViewSet	sensordata-get-yearly-average-datapoints-by-parameter
/api/datapoints./	sensordata.views.DatapointsViewSet	sensordata-list
/api/parameters/	sensordata.views.ParametersViewSet	parameters-list
/api/parameters//	sensordata.views.ParametersViewSet	parameters-detail
/api/parameters/./	sensordata.views.ParametersViewSet	parameters-detail
/api/parameters/delete/	sensordata.views.ParametersViewSet	parameters-delete
/api/parameters/delete./	sensordata.views.ParametersViewSet	parameters-delete
/api/parameters/delete_by_name/	sensordata.views.ParametersViewSet	delete_by_name
/api/parameters./	sensordata.views.ParametersViewSet	parameters-list
/api/sensors/	sensordata.views.SensorsViewSet	sensors-list
/api/sensors//	sensordata.views.SensorsViewSet	sensors-detail
/api/sensors/./	sensordata.views.SensorsViewSet	sensors-detail
/api/sensors./	sensordata.views.SensorsViewSet	sensors-list
/api/streams/	sensordata.views.StreamsViewSet	streams-list
/api/streams//	sensordata.views.StreamsViewSet	streams-detail
/api/streams/./	sensordata.views.StreamsViewSet	streams-detail
/api/streams./	sensordata.views.StreamsViewSet	streams-list
/swagger/	drf_yasg.views.SchemaView	schema-swagger-ui
/swagger/	drf_yasg.views.SchemaView	schema-json