
django-simple-history Documentation

Release 2.3.0

Corey Bertram

Dec 10, 2018

Contents

1	Documentation	3
1.1	Quick Start	3
1.2	Common Issues	9
1.3	Advanced Usage	10
2	Code	17
3	Changes	19
3.1	2.3.0 (2018-07-19)	19
3.2	2.2.0 (2018-07-02)	19
3.3	2.1.1 (2018-06-15)	19
3.4	2.1.0 (2018-06-04)	19
3.5	2.0 (2018-04-05)	20
3.6	1.9.1 (2018-03-30)	20
3.7	1.9.0 (2017-06-11)	20
3.8	1.8.2 (2017-01-19)	20
3.9	1.8.1 (2016-03-19)	20
3.10	1.8.0 (2016-02-02)	21
3.11	1.7.0 (2015-12-02)	21
3.12	1.6.3 (2015-07-30)	21
3.13	1.6.2 (2015-07-04)	21
3.14	1.6.1 (2015-04-21)	21
3.15	1.6.0 (2015-04-16)	21
3.16	1.5.4 (2015-01-03)	21
3.17	1.5.3 (2014-11-18)	22
3.18	1.5.2 (2014-10-15)	22
3.19	1.5.1 (2014-10-13)	22
3.20	1.5.0 (2014-08-17)	22
3.21	1.4.0 (2014-06-29)	22
3.22	1.3.0 (2013-05-17)	23
3.23	1.2.3 (2013-04-22)	23
3.24	1.2.1 (2013-04-22)	23
3.25	Oct 22, 2010	23
3.26	Feb 21, 2010	23

django-simple-history stores Django model state on every create/update/delete.

1.1 Quick Start

1.1.1 Install

Install from [PyPI](#) with `pip`:

```
$ pip install django-simple-history
```

1.1.2 Configure

Settings

Add `simple_history` to your `INSTALLED_APPS`

```
INSTALLED_APPS = [  
    # ...  
    'simple_history',  
]
```

The historical models can track who made each change. To populate the history user automatically you can add middleware to your Django settings:

```
MIDDLEWARE = [  
    # ...  
    'simple_history.middleware.HistoryRequestMiddleware',  
]
```

If you do not want to use the middleware, you can explicitly indicate the user making the change as documented in *Advanced Usage*.

Models

To track history for a model, create an instance of `simple_history.models.HistoricalRecords` on the model.

An example for tracking changes on the `Poll` and `Choice` models in the Django tutorial:

```
from django.db import models
from simple_history.models import HistoricalRecords

class Poll(models.Model):
    question = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')
    history = HistoricalRecords()

class Choice(models.Model):
    poll = models.ForeignKey(Poll)
    choice_text = models.CharField(max_length=200)
    votes = models.IntegerField(default=0)
    history = HistoricalRecords()
```

Now all changes to `Poll` and `Choice` model instances will be tracked in the database.

Run Migrations

With your model changes in place, create and apply the database migrations:

```
$ python manage.py makemigrations
$ python manage.py migrate
```

Existing Projects

For existing projects, you can call the `populate` command to generate an initial change for preexisting model instances:

```
$ python manage.py populate_history --auto
```

By default, history rows are inserted in batches of 200. This can be changed if needed for large tables by using the `--batchsize` option, for example `--batchsize 500`.

1.1.3 Integration with Django Admin

To allow viewing previous model versions on the Django admin site, inherit from the `simple_history.admin.SimpleHistoryAdmin` class when registering your model with the admin site.

This will replace the history object page on the admin site and allow viewing and reverting to previous model versions. Changes made in admin change forms will also accurately note the user who made the change.

Django administration Welcome, **admin**. Change password / Log out

Home > Polls > Polls > Do you like cake? > History

Change history: Do you like cake?

Choose a date from the list below to revert to a previous version of this object.

Object	Datetime	Comment	Changed by
Do you like cake?	April 13, 2014, 11:54 p.m.	Changed	admin
Question 1	April 13, 2014, 11:51 p.m.	Created	admin

Clicking on an object presents the option to revert to that version of the object.

Django administration Welcome, **admin**. Change password / Log out

Home > Polls > Historical polls > Question 1 > History > Revert poll

Revert Question 1

Press the save button below to revert to this version of the object.

Question:

Date published: Date: Today | Time: Now |

(The object is reverted to the selected state)

Django administration Welcome, **admin**. Change password / Log out

Home > Polls > Polls

✓ The poll "Question 1" was changed successfully.

Select poll to change

Action: 0 of 1 selected

<input type="checkbox"/>	Poll
<input type="checkbox"/>	Question 1

1 poll

Reversions like this are added to the history.

Django administration Welcome, **admin**. Change password / Log out

Home > Polls > Polls > Question 1 > History

Change history: Question 1

Choose a date from the list below to revert to a previous version of this object.

Object	Datetime	Comment	Changed by
Question 1	April 13, 2014, 11:55 p.m.	Changed	admin
Do you like cake?	April 13, 2014, 11:54 p.m.	Changed	admin
Question 1	April 13, 2014, 11:51 p.m.	Created	admin

An example of admin integration for the Poll and Choice models:

```
from django.contrib import admin
from simple_history.admin import SimpleHistoryAdmin
```

(continues on next page)

(continued from previous page)

```
from .models import Poll, Choice

admin.site.register(Poll, SimpleHistoryAdmin)
admin.site.register(Choice, SimpleHistoryAdmin)
```

Changing a history-tracked model from the admin interface will automatically record the user who made the change (see [Advanced Usage](#)).

Displaying custom columns in the admin history list view

By default, the history log displays one line per change containing

- a link to the detail of the object at that point in time
- the date and time the object was changed
- a comment corresponding to the change
- the author of the change

You can add other columns (for example the object's status to see how it evolved) by adding a `history_list_display` array of fields to the admin class

```
from django.contrib import admin
from simple_history.admin import SimpleHistoryAdmin
from .models import Poll, Choice

class PollHistoryAdmin(SimpleHistoryAdmin):
    list_display = ["id", "name", "status"]
    history_list_display = ["status"]
    search_fields = ['name', 'user__username']

admin.site.register(Poll, PollHistoryAdmin)
admin.site.register(Choice, SimpleHistoryAdmin)
```

Change history: Poll 1

Choose a date from the list below to revert to a previous version of this object.

OBJECT	STATUS	DATE/TIME	COMMENT	CHANGED BY
Poll 1	CLOSED	June 10, 2017, 10:14 a.m.	Changed	gregory.bataille@gmail.com
Poll 1	CREATED	April 14, 2017, 7:35 a.m.	Changed	gregory.bataille@gmail.com

1.1.4 Customizations

UUID as `history_id`

The `HistoricalRecords` object can be customized to use an `UUIDField` instead of the default `IntegerField` as the object `history_id` either through Django settings or via the constructor on the model.

```
SIMPLE_HISTORY_HISTORY_ID_USE_UUID = True
```

or

```
class UUIDExample(models.Model):
    id = models.UUIDField(primary_key=True, default=uuid.uuid4, editable=False)
    history = HistoricalRecords(
        history_id_field=models.UUIDField(default=uuid.uuid4)
    )
```

TextField as *history_change_reason*

The `HistoricalRecords` object can be customized to accept a `TextField` model field for saving the *history_change_reason* either through settings or via the constructor on the model. The common use case for this is for supporting larger model change histories to support changelog-like features.

```
SIMPLE_HISTORY_HISTORY_CHANGE_REASON_USE_TEXT_FIELD=True
```

or

```
class TextFieldExample(models.Model):
    greeting = models.CharField(max_length=100)
    history = HistoricalRecords(
        history_change_reason_field=models.TextField(null=True)
    )
```

1.1.5 Querying history

Querying history on a model instance

The `HistoricalRecords` object on a model instance can be used in the same way as a model manager:

```
>>> from polls.models import Poll, Choice
>>> from datetime import datetime
>>> poll = Poll.objects.create(question="what's up?", pub_date=datetime.now())
>>>
>>> poll.history.all()
[<HistoricalPoll: Poll object as of 2010-10-25 18:03:29.855689>]
```

Whenever a model instance is saved a new historical record is created:

```
>>> poll.pub_date = datetime(2007, 4, 1, 0, 0)
>>> poll.save()
>>> poll.history.all()
[<HistoricalPoll: Poll object as of 2010-10-25 18:04:13.814128>, <HistoricalPoll:
↳ Poll object as of 2010-10-25 18:03:29.855689>]
```

Querying history on a model class

Historical records for all instances of a model can be queried by using the `HistoricalRecords` manager on the model class. For example historical records for all `Choice` instances can be queried by using the manager on the `Choice` model class:

```
>>> choice1 = poll.choice_set.create(choice_text='Not Much', votes=0)
>>> choice2 = poll.choice_set.create(choice_text='The sky', votes=0)
>>>
```

(continues on next page)

(continued from previous page)

```
>>> Choice.history
<simple_history.manager.HistoryManager object at 0x1cc4290>
>>> Choice.history.all()
[<HistoricalChoice: Choice object as of 2010-10-25 18:05:12.183340>,
↪<HistoricalChoice: Choice object as of 2010-10-25 18:04:59.047351>]
```

Because the history is model, you can also filter it like regularly QuerySets, a.k. `Choice.history.filter(choice_text='Not Much')` will work!

Getting previous and next historical record

If you have a historical record for an instance and would like to retrieve the previous historical record (older) or next historical record (newer), `prev_record` and `next_record` read-only attributes can be used, respectively.

```
>>> from polls.models import Poll, Choice
>>> from datetime import datetime
>>> poll = Poll.objects.create(question="what's up?", pub_date=datetime.now())
>>>
>>> record = poll.history.first()
>>> record.prev_record
None
>>> record.next_record
None
>>> poll.question = "what is up?"
>>> poll.save()
>>> record.next_record
<HistoricalPoll: Poll object as of 2010-10-25 18:04:13.814128>
```

If a historical record is the first record, `prev_record` will be `None`. Similarly, if it is the latest record, `next_record` will be `None`.

Reverting the Model

`SimpleHistoryAdmin` allows users to revert back to an old version of the model through the admin interface. You can also do this programmatically. To do so, you can take any historical object, and save the associated instance. For example, if we want to access the earliest `HistoricalPoll`, for an instance of `Poll`, we can do:

```
>>> poll.history.earliest()
<HistoricalPoll: Poll object as of 2010-10-25 18:04:13.814128>
```

And to revert to that `HistoricalPoll` instance, we can do:

```
>>> earliest_poll = poll.history.earliest()
>>> earliest_poll.instance.save()
```

This will change the `poll` instance to have the data from the `HistoricalPoll` object and it will create a new row in the `HistoricalPoll` table indicating that a new change has been made.

1.2 Common Issues

1.2.1 Bulk Creating and Queryset Updating

Django Simple History functions by saving history using a `post_save` signal every time that an object with history is saved. However, for certain bulk operations, such as [bulk_create](#) and [queryset updates](#), signals are not sent, and the history is not saved automatically. However, Django Simple History provides utility functions to work around this.

Bulk Creating a Model with History

As of Django Simple History 2.2.0, we can use the utility function

`bulk_create_with_history` in order to bulk create objects while saving their history:

```
>>> from simple_history.utils import bulk_create_with_history
>>> from simple_history.tests.models import Poll
>>> from django.utils.timezone import now
>>>
>>> data = [Poll(id=x, question='Question ' + str(x), pub_date=now()) for x in
↳ range(1000)]
>>> objs = bulk_create_with_history(data, Poll, batch_size=500)
>>> Poll.objects.count()
1000
>>> Poll.history.count()
1000
```

QuerySet Updates with History

Unlike with `bulk_create`, [queryset updates](#) perform an SQL update query on the queryset, and never return the actual updated objects (which would be necessary for the inserts into the historical table). Thus, we tell you that queryset updates will not save history (since no `post_save` signal is sent). As the Django documentation says:

If you want to update a bunch of records for a model that has a custom `save()` method, loop over them and call `save()`, like this:

```
for e in Entry.objects.filter(pub_date__year=2010):
    e.comments_on = False
    e.save()
```

1.2.2 Tracking Custom Users

- `fields.E300`:

```
ERRORS:
custom_user.HistoricalCustomUser.history_user: (fields.E300) Field defines a
↳ relation with model 'custom_user.CustomUser', which is either not installed, or
↳ is abstract.
```

Use `register()` to track changes to the custom user model instead of setting `HistoricalRecords` on the model directly. See [History for a Third-Party Model](#).

The reason for this, is that unfortunately `HistoricalRecords` cannot be set directly on a swapped user model because of the user foreign key to track the user making changes.

1.2.3 Using django-webtest with Middleware

When using `django-webtest` to test your Django project with the `django-simple-history` middleware, you may run into an error similar to the following:

```
django.db.utils.IntegrityError: (1452, 'Cannot add or update a child row: a foreign_
↳key constraint fails (`test_env`.`core_historicaladdress`, CONSTRAINT `core_
↳historicaladdress_history_user_id_0f2bed02_fk_user_user_id` FOREIGN KEY (`history_
↳user_id`) REFERENCES `user_user` (`id`))')
```

This error occurs because `django-webtest` sets `DEBUG_PROPOGATE_EXCEPTIONS` to `true` preventing the middleware from cleaning up the request. To solve this issue, add the following code to any `clean_environment` or `tearDown` method that you use:

```
from simple_history.middleware import HistoricalRecords
if hasattr(HistoricalRecords.thread, 'request'):
    del HistoricalRecords.thread.request
```

1.2.4 Using F() expressions

`F()` expressions, as described [here](#), do not work on models that have history. Simple history inserts a new record in the historical table for any model being updated. However, `F()` expressions are only functional on updates. Thus, when an `F()` expression is used on a model with a history table, the historical model tries to insert using the `F()` expression, and raises a `ValueError`.

1.3 Advanced Usage

1.3.1 Database Migrations

By default, Historical models live in the same app as the model they track. Historical models are tracked by migrations in the same way as any other model. Whenever the original model changes, the historical model will change also.

Therefore tracking historical models with migrations should work automatically.

1.3.2 Locating past model instance

Two extra methods are provided for locating previous models instances on historical record model managers.

`as_of`

This method will return an instance of the model as it would have existed at the provided date and time.

```
>>> from datetime import datetime
>>> poll.history.as_of(datetime(2010, 10, 25, 18, 4, 0))
<Poll: Poll object as of 2010-10-25 18:03:29.855689>
>>> poll.history.as_of(datetime(2010, 10, 25, 18, 5, 0))
<Poll: Poll object as of 2010-10-25 18:04:13.814128>
```

most_recent

This method will return the most recent copy of the model available in the model history.

```
>>> from datetime import datetime
>>> poll.history.most_recent()
<Poll: Poll object as of 2010-10-25 18:04:13.814128>
```

1.3.3 History for a Third-Party Model

To track history for a model you didn't create, use the `simple_history.register` utility. You can use this to track models from third-party apps you don't have control over. Here's an example of using `simple_history.register` to history-track the `User` model from the `django.contrib.auth` app:

```
from simple_history import register
from django.contrib.auth.models import User

register(User)
```

1.3.4 Allow tracking to be inherited

By default history tracking is only added for the model that is passed to `register()` or has the `HistoricalRecords` descriptor. By passing `inherit=True` to either way of registering you can change that behavior so that any child model inheriting from it will have historical tracking as well. Be careful though, in cases where a model can be tracked more than once, `MultipleRegistrationsError` will be raised.

```
from django.contrib.auth.models import User
from django.db import models
from simple_history import register
from simple_history.models import HistoricalRecords

# register() example
register(User, inherit=True)

# HistoricalRecords example
class Poll(models.Model):
    history = HistoricalRecords(inherit=True)
```

Both `User` and `Poll` in the example above will cause any model inheriting from them to have historical tracking as well.

1.3.5 Recording Which User Changed a Model

There are three documented ways to attach users to a tracked change:

1. Use the middleware as described in [Quick Start](#). The middleware sets the `User` instance that made the request as the `history_user` on the history table.
2. Use `simple_history.admin.SimpleHistoryAdmin`. Under the hood, `SimpleHistoryAdmin` actually sets the `_history_user` on the object to attach the user to the tracked change by overriding the `save_model` method.
3. Assign a user to the `_history_user` attribute of the object as described below:

Using `_history_user` to Record Which User Changed a Model

To denote which user changed a model, assign a `_history_user` attribute on your model.

For example if you have a `changed_by` field on your model that records which user last changed the model, you could create a `_history_user` property referencing the `changed_by` field:

```
from django.db import models
from simple_history.models import HistoricalRecords

class Poll(models.Model):
    question = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')
    changed_by = models.ForeignKey('auth.User')
    history = HistoricalRecords()

    @property
    def _history_user(self):
        return self.changed_by

    @_history_user.setter
    def _history_user(self, value):
        self.changed_by = value
```

Admin integration requires that you use a `_history_user.setter` attribute with your custom `_history_user` property (see [Integration with Django Admin](#)).

Another option for identifying the change user is by providing a function via `get_user`. If provided it will be called everytime that the `history_user` needs to be identified with the following key word arguments:

- `instance`: The current instance being modified
- `request`: If using the middleware the current request object will be provided if they are authenticated.

This is very helpful when using `register`:

```
from django.db import models
from simple_history.models import HistoricalRecords

class Poll(models.Model):
    question = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')
    changed_by = models.ForeignKey('auth.User')

def get_poll_user(instance, **kwargs):
    return instance.changed_by

register(Poll, get_user=get_poll_user)
```

1.3.6 Change User Model

If you need to use a different user model then `settings.AUTH_USER_MODEL`, pass in the required model to `user_model`. Doing this requires `_history_user` or `get_user` is provided as detailed above.

```
from django.db import models
from simple_history.models import HistoricalRecords
```

(continues on next page)

(continued from previous page)

```

class PollUser(models.Model):
    user_id = models.ForeignKey('auth.User')

# Only PollUsers should be modifying a Poll
class Poll(models.Model):
    question = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')
    changed_by = models.ForeignKey(PollUser)
    history = HistoricalRecords(user_model=PollUser)

    @property
    def _history_user(self):
        return self.changed_by

    @_history_user.setter
    def _history_user(self, value):
        self.changed_by = value

```

1.3.7 Custom history_id

By default, the historical table of a model will use an `AutoField` for the table's `history_id` (the history table's primary key). However, you can specify a different type of field for `history_id` by passing a different field to `history_id_field` parameter.

A common use case for this would be to use a `UUIDField`. If you want to use a `UUIDField` as the default for all classes set `SIMPLE_HISTORY_HISTORY_ID_USE_UUID=True` in the settings. This setting can still be overridden using the `history_id_field` parameter on a per model basis.

You can use the `history_id_field` parameter with both `HistoricalRecords()` or `register()` to change this behavior.

Note: regardless of what field type you specify as your `history_id` field, that field will automatically set `primary_key=True` and `editable=False`.

```

import uuid
from django.db import models
from simple_history.models import HistoricalRecords

class Poll(models.Model):
    question = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')
    history = HistoricalRecords(
        history_id_field=models.UUIDField(default=uuid.uuid4)
    )

```

1.3.8 Custom history_date

You're able to set a custom `history_date` attribute for the historical record, by defining the property `_history_date` in your model. That's helpful if you want to add versions to your model, which happened before the current model version, e.g. when batch importing historical data. The content of the property `_history_date` has to be a datetime-object, but setting the value of the property to a `DateTimeField`, which is already defined in the model, will work too.

```
from django.db import models
from simple_history.models import HistoricalRecords

class Poll(models.Model):
    question = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')
    changed_by = models.ForeignKey('auth.User')
    history = HistoricalRecords()
    __history_date = None

    @property
    def _history_date(self):
        return self.__history_date

    @_history_date.setter
    def _history_date(self, value):
        self.__history_date = value
```

```
from datetime import datetime
from models import Poll

my_poll = Poll(question="what's up?")
my_poll._history_date = datetime.now()
my_poll.save()
```

1.3.9 Change Base Class of HistoricalRecord Models

To change the auto-generated HistoricalRecord models base class from `models.Model`, pass in the abstract class in a list to `bases`.

```
class RoutableModel(models.Model):
    class Meta:
        abstract = True

class Poll(models.Model):
    question = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')
    changed_by = models.ForeignKey('auth.User')
    history = HistoricalRecords(bases=[RoutableModel])
```

1.3.10 Custom history table name

By default, the table name for historical models follow the Django convention and just add `historical` before model name. For instance, if your application name is `polls` and your model name `Question`, then the table name will be `polls_historicalquestion`.

You can use the `table_name` parameter with both `HistoricalRecords()` or `register()` to change this behavior.

```
class Question(models.Model):
    question_text = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')
    history = HistoricalRecords(table_name='polls_question_history')
```

```
class Question(models.Model):
    question_text = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')

register(Question, table_name='polls_question_history')
```

1.3.11 Choosing fields to not be stored

It is possible to use the parameter `excluded_fields` to choose which fields will be stored on every create/update/delete.

For example, if you have the model:

```
class PollWithExcludeFields(models.Model):
    question = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')
```

And you don't want to store the changes for the field `pub_date`, it is necessary to update the model to:

```
class PollWithExcludeFields(models.Model):
    question = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')

    history = HistoricalRecords(excluded_fields=['pub_date'])
```

By default, django-simple-history stores the changes for all fields in the model.

1.3.12 Change Reason

Change reason is a message to explain why the change was made in the instance. It is stored in the field `history_change_reason` and its default value is `None`.

By default, the django-simple-history gets the change reason in the field `changeReason` of the instance. Also, is possible to pass the `changeReason` explicitly. For this, after a save or delete in an instance, is necessary call the function `utils.update_change_reason`. The first argument of this function is the instance and the second is the message that represents the change reason.

For instance, for the model:

```
from django.db import models
from simple_history.models import HistoricalRecords

class Poll(models.Model):
    question = models.CharField(max_length=200)
    history = HistoricalRecords()
```

You can create a instance with a implicitly change reason.

```
poll = Poll(question='Question 1')
poll.changeReason = 'Add a question'
poll.save()
```

Or you can pass the change reason explicitly:

```
from simple_history.utils import update_change_reason

poll = Poll(question='Question 1')
poll.save()
update_change_reason(poll, 'Add a question')
```

1.3.13 Save without a historical record

If you want to save a model without a historical record, you can use the following:

```
class Poll(models.Model):
    question = models.CharField(max_length=200)
    history = HistoricalRecords()

    def save_without_historical_record(self, *args, **kwargs):
        self.skip_history_when_saving = True
        try:
            ret = self.save(*args, **kwargs)
        finally:
            del self.skip_history_when_saving
        return ret

poll = Poll(question='something')
poll.save_without_historical_record()
```

1.3.14 History Diffing

When you have two instances of the same `HistoricalRecord` (such as the `HistoricalPoll` example above), you can perform diffs to see what changed. This will result in a `ModelDelta` containing the following properties:

1. A list with each field changed between the two historical records
2. A list with the names of all fields that incurred changes from one record to the other
3. the old and new records.

This may be useful when you want to construct timelines and need to get only the model modifications.

```
p = Poll.objects.create(question="what's up?")
p.question = "what's up, man?"
p.save()

new_record, old_record = p.history.all()
delta = new_record.diff_against(old_record)
for change in delta.changes:
    print("{} changed from {} to {}".format(change.field, change.old, change.new))
```

CHAPTER 2

Code

Code and issue tracker: <https://github.com/treyhunner/django-simple-history>

Pull requests are welcome.

3.1 2.3.0 (2018-07-19)

- Add ability to diff HistoricalRecords (gh-244)

3.2 2.2.0 (2018-07-02)

- Add ability to specify alternative `user_model` for tracking (gh-371)
- Add util function `bulk_create_with_history` to allow `bulk_create` with history saved (gh-412)

3.3 2.1.1 (2018-06-15)

- Fixed out-of-memory exception when running `populate_history` management command (gh-408)
- Fix `TypeError` on `populate_history` if `excluded_fields` are specified (gh-410)

3.4 2.1.0 (2018-06-04)

- Add ability to specify custom `history_reason` field (gh-379)
- Add ability to specify custom `history_id` field (gh-368)
- Add `HistoricalRecord` instance properties `prev_record` and `next_record` (gh-365)
- Can set admin methods as attributes on object history change list template (gh-390)
- Fixed compatibility of `>= 2.0` versions with old-style middleware (gh-369)

3.5 2.0 (2018-04-05)

- Added Django 2.0 support (gh-330)
- Dropped support for Django<=1.10 (gh-356)
- Fix bug where history_view ignored user permissions (gh-361)
- Fixed HistoryRequestMiddleware which hadn't been working for Django>1.9 (gh-364)

3.6 1.9.1 (2018-03-30)

- Use get_queryset rather than model.objects in history_view. (gh-303)
- Change ugettext calls in models.py to ugettext_lazy
- Resolve issue where model references itself (gh-278)
- Fix issue with tracking an inherited model (abstract class) (gh-269)
- Fix history detail view on django-admin for abstract models (gh-308)
- Dropped support for Django<=1.6 and Python 3.3 (gh-292)

3.7 1.9.0 (2017-06-11)

- Add --batchsize option to the populate_history management command. (gh-231)
- Add ability to show specific attributes in admin history list view. (gh-256)
- Add Brazilian Portuguese translation file. (gh-279)
- Fix locale file packaging issue. (gh-280)
- Add ability to specify reason for history change. (gh-275)
- Test against Django 1.11 and Python 3.6. (gh-276)
- Add *excluded_fields* option to exclude fields from history. (gh-274)

3.8 1.8.2 (2017-01-19)

- Add Polish locale.
- Add Django 1.10 support.

3.9 1.8.1 (2016-03-19)

- Clear the threadlocal request object when processing the response to prevent test interactions. (gh-213)

3.10 1.8.0 (2016-02-02)

- History tracking can be inherited by passing *inherit=True*. (gh-63)

3.11 1.7.0 (2015-12-02)

- Add ability to list history in admin when the object instance is deleted. (gh-72)
- Add ability to change history through the admin. (Enabled with the *SIMPLE_HISTORY_EDIT* setting.)
- Add Django 1.9 support.
- Support for custom tables names. (gh-196)

3.12 1.6.3 (2015-07-30)

- Respect *to_field* and *db_column* parameters (gh-182)

3.13 1.6.2 (2015-07-04)

- Use app loading system and fix deprecation warnings on Django 1.8 (gh-172)
- Update Landscape configuration

3.14 1.6.1 (2015-04-21)

- Fix OneToOneField transformation for historical models (gh-166)
- Disable cascading deletes from related models to historical models
- Fix restoring historical instances with missing one-to-one relations (gh-162)

3.15 1.6.0 (2015-04-16)

- Add support for Django 1.8+
- Deprecated use of *CustomForeignKeyField* (to be removed)
- Remove default reverse accessor to *auth.User* for historical models (gh-121)

3.16 1.5.4 (2015-01-03)

- Fix a bug when models have a *ForeignKey* with *primary_key=True*
- Do NOT delete the history elements when a user is deleted.
- Add support for *latest*
- Allow setting a reason for change. [using option *changeReason*]

3.17 1.5.3 (2014-11-18)

- Fix migrations while using `order_with_respect_to` (gh-140)
- Fix migrations using south
- Allow history accessor class to be overridden in `register()`

3.18 1.5.2 (2014-10-15)

- Additional fix for migrations (gh-128)

3.19 1.5.1 (2014-10-13)

- Removed some incompatibilities with non-default admin sites (gh-92)
- Fixed error caused by `HistoryRequestMiddleware` during anonymous requests (gh-115 fixes gh-114)
- Added workaround for clashing related historical accessors on User (gh-121)
- Added support for MongoDB `AutoField` (gh-125)
- Fixed `CustomForeignKeyField` errors with 1.7 migrations (gh-126 fixes gh-124)

3.20 1.5.0 (2014-08-17)

- Extended availability of the `as_of` method to models as well as instances.
- Allow `history_user` on historical objects to be set by middleware.
- Fixed error that occurs when a foreign key is designated using just the name of the model.
- Drop Django 1.3 support

3.21 1.4.0 (2014-06-29)

- Fixed error that occurs when models have a foreign key pointing to a one to one field.
- Fix bug when model `verbose_name` uses unicode (gh-76)
- Allow non-integer foreign keys
- Allow foreign keys referencing the name of the model as a string
- Added the ability to specify a custom `history_date`
- Note that `simple_history` should be added to `INSTALLED_APPS` (gh-94 fixes gh-69)
- Properly handle primary key escaping in admin URLs (gh-96 fixes gh-81)
- Add support for new app loading (Django 1.7+)
- Allow specifying custom base classes for historical models (gh-98)

3.22 1.3.0 (2013-05-17)

- Fixed bug when using `django-simple-history` on nested models package
- Allow history table to be formatted correctly with `django-admin-bootstrap`
- Disallow calling `simple_history.register` twice on the same model
- Added Python 3 support
- Added support for custom user model (Django 1.5+)

3.23 1.2.3 (2013-04-22)

- Fixed packaging bug: added admin template files to PyPI package

3.24 1.2.1 (2013-04-22)

- Added tests
- Added history view/revert feature in admin interface
- Various fixes and improvements

3.25 Oct 22, 2010

- Merged `setup.py` from Klaas van Schelven - Thanks!

3.26 Feb 21, 2010

- Initial project creation, with changes to support ForeignKey relations.