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Support multiple parametersfor Hyperlinked fields? #1024

[New issue](#)✓ Closed

millarm opened this issue on Aug 4, 2013 · 7 comments



millarm commented on Aug 4, 2013



I'd really like to be able to reverse hyperlinked URLs on more than just one field, and with fields that span across models.

So I'd love to have a "lookup_fields" parameter - that behaves like this:

Better HyperlinkedIdentityField

```
from rest_framework.relations import HyperlinkedIdentityField
from rest_framework.reverse import reverse
```

```
class ParameterisedHyperlinkedIdentityField(HyperlinkedIdentityField):
    """
    Represents the instance, or a property on the instance, using hyperlinking.
```

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Linked pull requests

```

lookup_fields is a tuple of tuples of the form:
    ('model_field', 'url_parameter')
"""
lookup_fields = (('pk', 'pk'),)

def __init__(self, *args, **kwargs):
    self.lookup_fields = kwargs.pop('lookup_fields', self.lookup_fields)
    super(ParameterisedHyperlinkedIdentityField, self).__init__(*args, **kwargs)

def get_url(self, obj, view_name, request, format):
    """
    Given an object, return the URL that hyperlinks to the object.

    May raise a `NoReverseMatch` if the `view_name` and `lookup_field`
    attributes are not configured to correctly match the URL conf.
    """
    kwargs = {}
    for model_field, url_param in self.lookup_fields:
        attr = obj
        for field in model_field.split('.'):
            attr = getattr(attr, field)
        kwargs[url_param] = attr

    try:
        return reverse(view_name, kwargs=kwargs, request=request, format=format)
    except NoReverseMatch:
        pass

    raise NoReverseMatch()

```

👍 3



millarm commented on Aug 4, 2013

Author ...

Successfully merging a pull request may close this issue.

None yet

3 participants



this lets me do things like:

```
vote_url = ParameterisedHyperlinkedIdentityField(
    view_name="vote", lookup_fields= (('poll.id', 'poll_id'), ('id', 'choice_id')))
```

where the urlscheme has <poll_id> and <choice_id> and the Choice object has a Foreign Key to a poll object



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tomchristie commented on Aug 15, 2013

Member ...

Related: [https://groups.google.com/forum/#!searchin/django-rest-framework/relevant\\$20key/django-rest-framework/rNGOVUAlv9Q/J2io9Nfvc74J](https://groups.google.com/forum/#!searchin/django-rest-framework/relevant$20key/django-rest-framework/rNGOVUAlv9Q/J2io9Nfvc74J)

Also related: <http://django-rest-framework.org/api-guide/generic-views.html#creating-custom-mixins>

I would love to see someone write a good third party package that properly deals with this, but I don't want to have to maintain it in core (there's already plenty of maintaince overhead on the project). I think this needs to be covered both by a custom hyperlinked relational field, that accepts `lookup_fields` instead of `lookup_field`, a view mixin that does the same, and ideally also a router or router mixin that'd deal with automatically routing viewsets using `lookup_fields` - there's plenty of work there for a good useful 3rd party package, and would absolutely want to link to that from the main docs if you or someone else wants to take it on.

Like I say though it's not something I'm willing to take on in core right now. I do think it'd be super useful to have, but there's no reason it can't be handled as a seperate package.



tomchristie closed this on Aug 15, 2013



millarm commented on Aug 15, 2013

Author



Tom,

Is there a wiki with details of third party packages?

We've already created and tested the first part if this, and may be motivated to do the latter parts & package and push back out for the community.

Matt

On Thursday, August 15, 2013, Tom Christie wrote:

Related:

[https://groups.google.com/forum/#!searchin/django-rest-framework/relevant\\$20key/django-rest-framework/rNGOVUAiv9Q/J2io9Nfvc74J](https://groups.google.com/forum/#!searchin/django-rest-framework/relevant$20key/django-rest-framework/rNGOVUAiv9Q/J2io9Nfvc74J)

Also related:

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—
Reply to this email directly or view it on GitHub <https://github.com//issues/1024#issuecomment-22725178>



tomchristie commented on Aug 15, 2013

Member ...

@millarm - We can either link to it from appropriate parts of the docs (eg see the '3rd party packages' sections at the end of various parts of the docs, such as authentication). There's also this [#1019](#) which I guess needs a bit more fleshing out but should hopefully get pulled in.



tomchristie commented on Aug 15, 2013

Member ...

(In particular I guess we'd link to it from the serializer relations docs and possibly also generic views docs, dep on what your package covers exactly)



bkovacev commented on Feb 15, 2017

...

@millarm @tomchristie I was actually looking for something like this and it works as provided by millarm. One question - do you plan to support this in the future?



tomchristie commented on Feb 16, 2017

Member



@bkovacev Not planned no - folks tie themselves up in knots with Hyperlinked fields as it is - supporting multiple lookups in the core REST framework would only make that worse. Much more keen to have it as a third party package that we could link too.



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