
django-handychelpers Documentation

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1.1 About

django-handyhelpers is a collection of handy utilities to support Django operations. Features include:

- management commands to generate admin pages
- management commands to generate, views, serializers, and urls for Django Rest Framework (DRF)
- generic base model with extensive model manager
- generic list views and FilterByQueryParamsMixin
- xls and csv export views
- InvalidLookupMixin for DRF viewsets
- a collection of generic bootstrap-based html templates

See details on django-handyhelpers features on the *Features* page

1.1.1 Requirements & Dependencies

django-handyhelpers is built on Python 3.6.x and Django 2.2.x. For a full list of packages and requirements, please see the requirements.txt file: <https://github.com/davidslusser/django-handyhelpers/blob/master/requirements.txt>

1.2 Installation

The django-handyhelpers package is available on Python Package Index (PyPI) and can be installed via pip with the following command:

```
pip install django-handyhelpers
```

1.2.1 Adding django-handychelpers to your django project

To include management commands add shared templates, add 'handychelpers' to the your INSTALLED_APPS of your project's settings file.

```
INSTALLED_APPS = [ ... 'handychelpers',  
                  ]
```

1.3 Features

This document details the features currently available in django-handychelpers.

1.3.1 Mangement Commands

Admin Generator

Included with django-handychelpers are manage.py commands to auto-generate an admin.py file for a given application in your project. This is done using a jinja template that defines the structure of the admin.py file. A default template is provided.

Command Examples:

** use the `--help` parameter for a full list of options

```
manage.py generate_admin <my_app>  
manage.py generate_admin <my_app> --template <my_custom_template>  
manage.py generate-admin --help
```

DRF Generator

Django-handychelpers includes manage.py commands to generate DRF files (api views, serializers, urls) for a given app in your project. This is done using jinja templates that define the structure of each file. Default templates are provided, and custom templates can be provided in the command. By default, all models and models fields are included.

Command Examples:

** use the `--help` parameter for a full list of options

```
manage.py generate_drf <my_app> --serializer  
manage.py generate_drf <my_app> --serializer --serializer_template <my_custom_  
↪template>  
manage.py generate_drf --help
```

1.3.2 Views

List Views

Base list views are also included which use the `FilterByQueryParamsMixin` and generic templates to further simplify your list views. Every parameter can be overwritten to fully customize to your needs. The `HandyHelperListView` uses a Bootstrap-based template to list your results; simply include a html template with a table formatted for your

model and include it in the table parameter. The HandyHelperListPlusCreateView has all the features as the HandyHelperListView but also allows for a form to create new records. The HandyHelperListPlusFilterView has all the features as the HandyHelperListView but also allows for a form to filter records. The HandyHelperListPlusCreate-AndFilterView allows for create and filter forms. To utilize the filter views, you must include handyhelpers urls in your project level urls:

```
path('handychelpers/', include('handychelpers.urls'), ),
```

Examples:

```
from handyhelpers.views.gui import HandyHelperBaseListView

class ListProjects(HandyHelperBaseListView):
    queryset = Project.objects.all()
    title = 'Projects'
    page_description = 'my cool projects'
    table = 'table/table_projects.htm'
```

```
from handyhelpers.views.gui import HandyHelperListPlusCreateView

class ListProjects(HandyHelperBaseCreateListView):
    queryset = Project.objects.all()
    title = 'Projects'
    page_description = 'my cool projects'
    table = 'table/table_projects.htm'
    create_form_obj = ProjectForm
    create_form_url = '/hostmgr/create_project/'
    create_form_title = '<b>Add Project: </b><small> </small>'
    create_form_modal = 'add_project'
    create_form_link_title = 'add project'
```

```
from handyhelpers.views.gui import HandyHelperListPlusFilterView

class ListProjects(HandyHelperListPlusFilterView):
    queryset = Project.objects.all()
    title = 'Projects'
    page_description = 'my cool projects'
    table = 'table/table_projects.htm'
    filter_form_obj = ProjectForm
    filter_form_url = '/hostmgr/filter_project/'
    filter_form_title = '<b>Filter Projects: </b><small> </small>'
    filter_form_modal = 'filter_project'
    filter_form_link_title = 'filter project'
    filter_form_tool_tip = 'filter project'
```

Export Views

Export views are available to easily render a queryset to csv or xls file. These views include the FilterByQuery-ParamsMixin, making filtered outputs available. These export views can be used as follows:

```
from handyhelpers.views import CsvExportView, ExcelExportView

class ExportMyModelCsv(CsvExportView):
    queryset = MyModel.objects.all()
```

(continues on next page)

```
class ExportMyModelXls(ExcelExportView):
    queryset = MyModel.objects.all()
```

1.3.3 Mixins

FilterByQueryParamsMixin

The FilterByQueryParamsMixin allows a list view to show a filtered queryset results by query_params provided in the URL.

Example:

```
from handyhelpers.mixins.view_mixins import FilterByQueryParamsMixin

class ListProjects(FilterByQueryParamsMixin, ListView):
    def get(self, request, *args, **kwargs):
        return render(request, "my_template.html", context={'queryset': self.filter_
↳by_query_params()})
```

InAllGroups

The InAllGroups permissions mixin restricts access based on request method and user group. User must be in ALL required groups.

optional: When settings variable MESSAGE_ON_PERMISSION_DENY is set to True, an alert will be sent via messages and redirect will be to the HTTP_REFERER instead of redirecting to the LOGIN_URL.

Usage: Add as mixin to class definition and put the following in your viewset:

```
from handyhelpers.permissions import InAllGroups

def MyView(InAllGroups, View):
    permission_dict = {'POST': ['site_operators', 'site_admins'], 'GET': ['site_
↳operators']}
    ...
```

InAnyGroup

The InAnyGroup permission mixin will restrict access based on request method and user group. User can be in ANY required group.

optional: When settings variable MESSAGE_ON_PERMISSION_DENY is set to True, an alert will be sent via messages and redirect will be to the HTTP_REFERER instead of redirecting to the LOGIN_URL.

Usage: Add as mixin to class definition and put the following in your viewset:

```
from handyhelpers.permissions import InAnyGroup

def MyView(InAnyGroup, View):
    permission_dict = {'POST': ['site_admins'], 'GET': ['site_admins', 'site_operators
↳']}
```


InvalidLookupMixin

By default, drf viewsets will ignore an invalid field, filter, or lookup expression, causing the API to return all records. As this might not be the desired behaviour, handyhelpers provides a mixin for Django Rest Framework viewsets that checks query parameters and returns an error if any query parameter is not included in defined in a `filter_class` (typically defined in your filterset), and element of `filter_fields` (typically set in your viewset), or a valid model field. Order of precedence is: `filterset_class`, `filter_class`, `filterset_fields`, `filter_fields`, model field.

Examples:

```
from handyhelpers.mixins.viewset_mixins import InvalidLookupMixin

class MyModelViewSet(InvalidLookupMixin, viewsets.ReadOnlyModelViewSet):
```

PaginationControlMixin

A mixin for Django Rest Framework viewsets that allows pagination to be disabled by including a specific query parameter. Default query parameter for disabling pagination is 'disable_pagination' and this can be modified by setting the `PAGINATION_CONTROL_PARAMETER` variable to the desired value in django settings.

Examples:

```
from handyhelpers.mixins.viewset_mixins import PaginationControlMixin

class MyModelViewSet(PaginationControlMixin, viewsets.ReadOnlyModelViewSet):
```

1.4 Internals

The documentation below details some of the internal workings of django-userextensions and its components. This documentation is automatically generated from the source code. See the source code in github for full details.

<https://github.com/davidslusser/django-handhelpers>

1.4.1 GUI Views

```
class handyhelpers.views.gui.HandyHelperGenericBaseView(**kwargs)
```

Generic view used to set the `base_template` variable. This extends `django.view.generic.View` and will use the base template defined in the `BASE_TEMPLATE` settings variable or use `handyhelpers/handyhelpers_base.htm` if not provided.

class parameters: `base_template` - base template used for rendering page; defaults to: `handyhelpers_base.htm`
`args` - additional args to pass into the template `kwargs` - additional kwargs to pass into the template

```
class handyhelpers.views.gui.HandyHelperGenericBaseItemizedView(**kwargs)
```

Generic view to include shared variables used in views itemized views, such as index and action views.

class parameters: `base_template` - base template used for rendering page; defaults to: `handyhelpers_base.htm`
`args` - additional args to pass into the template `kwargs` - additional kwargs to pass into the template
`title` - page title to use; will display in a H1 element
`subtitle` - subtitle to use; will display in a H5 element
`item_list` - list of items/actions to display (one per card)
`protected_item_list` - list of items/action only visible to members of `protected_group_name`
`protected_group_name` - name of group to show `protected_item_list` items to

class `handhelpers.views.gui.HandyHelperGenericBaseListView` (**kwargs)

Generic list view used to set the `base_template`, `template`, `title`, `table`, and `modal` variables. This extends `django.view.generic.ListView` and will use the base template defined in the `BASE_TEMPLATE` settings variable or use `handhelpers/handyhelpers_base.htm` if not provided. This view also includes the `handhelpers.mixins.view_mixins.FilterByQueryParamsMixin` mixin to allow filtering by query parameters.

class parameters: `base_template` - base template used for rendering page; defaults to: `handhelpers_base.htm`
`template_name` - template used when rendering page; defaults to: `handhelpers/generic/generic_list.html`
`title` - title to use in template `table - htm` file rendering the queryset to be included in the `generic_list` template
`template modals` - htm file rendering additional modals to be included in the `generic_list` template

class `handhelpers.views.gui.HandyHelperActionView` (**kwargs)

Action page with actions/options listed as 'zoom-cards' in flex-box container(s)

class parameters: `base_template` - base template used for rendering page; defaults to: `handhelpers_base.htm`
`args` - additional args to pass into the template `kwargs` - additional kwargs to pass into the template `template_name` - template used when rendering page; defaults to: `handhelpers/generic/generic_action.html`
`title` - page title to use; will display in a H1 element `subtitle` - subtitle to use; will display in a H5 element (None if not provided) `item_list` - list of items/actions to display (one per card) `protected_item_list` - list of items/action only visible to members of `protected_group_name` `protected_group_name` - name of group to show `protected_item_list` items to `form_list` - list of django forms used in page

class `handhelpers.views.gui.HandyHelperAboutView` (**kwargs)

Generic view to render an 'about' page.

class parameters: `base_template` - base template used for rendering page; defaults to: `handhelpers_base.htm`
`args` - additional args to pass into the template `kwargs` - additional kwargs to pass into the template `template_name` - template used when rendering page; defaults to: `handhelpers/generic/generic_about.html`
`title` - page title to use ('About' if not provided) `subtitle` - subtitle to use (None if not provided) `version` - version to display (None if not provided) `details` - any specific details to display (None if not provided) `source` - link to source code repository (None if not provided) `contact` - any desired contact information (None if not provided) `links` - list of dictionary containing links; ex. `[{'some reference': 'www.somewebsite.com'}, ...]`

class `handhelpers.views.gui.HandyHelperSingletonView` (**kwargs)

View for rendering a page based on a `SingletonModel`

class parameters: `base_template` - base template used for rendering page; defaults to: `handhelpers_base.htm`
`args` - additional args to pass into the template `kwargs` - additional kwargs to pass into the template `template_name` - template used when rendering page `model - singleton model`

class `handhelpers.views.gui.HandyHelperListView` (**kwargs)

A reusable generic base view to render a `ListView` where the child view will provide a html table.

class parameters: `base_template` - base template used for rendering page; defaults to: `handhelpers_base.htm`
`template_name` - template used when rendering page; defaults to: `handhelpers/generic/generic_list.html`
`args` - additional args to pass into the template `kwargs` - additional kwargs to pass into the template `queryset` - queryset to be rendered on the page `title` - title to use in template `page_description` - subtitle to use in template `table - htm` file rendering the queryset to be included in the `generic_list` template `modals - htm` file rendering additional modals to be included in the `generic_list` template

example:

```
class ListProjects(HandyHelperBaseListView):
    queryset = Project.objects.all()
    title = 'Projects'
    page_description = 'my cool projects'
    table = 'table/table_projects.htm'
    modals = 'project_modals.htm'
```

class `handhelpers.views.gui.HandyHelperListPlusCreateView` (**kwargs)

A reusable generic base view to render a `ListView` where the child view will provide a html table and create form.

class parameters: base_template - base template used for rendering page; defaults to: handyhelpers_base.htm
 template_name - template used when rendering page; defaults to: handyhelpers/generic/generic_list.html
 args - additional args to pass into the template kwargs - additional kwargs to pass into the template queryset
 - queryset to be rendered on the page title - title to use in template page_description - subtitle to use in
 template table - htm file rendering the queryset to be included in the generic_list template modals - htm
 file rendering additional modals to be included in the generic_list template allow_create_groups - comma
 separated list of groups that are allowed to create a new record

create_form_obj - form object create_form_url - url the form (action) should post to create_form_title -
 title to use on the create form modal (can be html) create_form_modal - name of modal for the create form
 create_form_modal_size - bootstrap modal size class (such as modal-lg) create_form_modal_backdrop -
 optional data-backdrop value (such as data-backdrop="static") create_form_link_title - text used for the
 link opening the create form create_form_tool_tip - text to use for the tooltip create_form_autocomplete -
 autocomplete parameter to use in form tag (on/off)

example:

```
class ListProjects(HandyHelperBaseCreateListView): queryset = Project.objects.all() title = 'Projects'
    page_description = 'my cool projects' table = 'table/table_projects.htm'

    create_form_obj = ProjectForm create_form_url = '/hostmgr/create_project/' create_form_title
    = '<b>Add Project: </b><small> </small>' create_form_modal = 'add_project' cre-
    ate_form_modal_size = 'modal-lg' create_form_modal_backdrop = 'static' create_form_link_title =
    'add project' create_form_tool_tip = 'add project'
```

class handyhelpers.views.gui.HandyHelperListPlusFilterView (**kwargs)

A reusable generic base view to render a ListView where the child view will provide a html table and filter form.

class parameters: base_template - base template used for rendering page; defaults to: handyhelpers_base.htm
 template_name - template used when rendering page; defaults to: handyhelpers/generic/generic_list.html
 args - additional args to pass into the template kwargs - additional kwargs to pass into the template queryset
 - queryset to be rendered on the page title - title to use in template page_description - subtitle to use in
 template table - htm file rendering the queryset to be included in the generic_list template modals - htm
 file rendering additional modals to be included in the generic_list template

filter_form_obj - form object filter_form_url - url the form (action) should post to filter_form_title - ti-
 tle to use on the filter form modal (can be html) filter_form_modal - name of modal for the filter form
 filter_form_modal_size - bootstrap modal size class (such as modal-lg) filter_form_modal_backdrop -
 optional data-backdrop value (such as data-backdrop="static") filter_form_link_title - text used for the
 link opening the filter form filter_form_tool_tip - text to use for the tooltip filter_form_undo - True fil-
 ter_form_autocomplete - autocomplete parameter to use in form tag (on/off)

example:

```
class ListProjects(HandyHelperListPlusFilterView): queryset = Project.objects.all() title = 'Projects'
    page_description = 'my cool projects' table = 'table/table_projects.htm'

    filter_form_obj = ProjectForm filter_form_url = '/hostmgr/filter_project/' filter_form_title
    = '<b>Filter Projects: </b><small> </small>' filter_form_modal = 'filter_project' fil-
    ter_form_modal_size = 'modal-lg' filter_form_modal_backdrop = 'static' filter_form_link_title
    = 'filter project' filter_form_tool_tip = 'filter project'
```

class handyhelpers.views.gui.HandyHelperListPlusCreateAndFilterView (**kwargs)

A reusable generic base view to render a ListView where the child view will provide a html table and and a
 create form and a filter form.

class parameters: base_template - base template used for rendering page; defaults to: handyhelpers_base.htm
 template_name - template used when rendering page; defaults to: handyhelpers/generic/generic_list.html
 args - additional args to pass into the template kwargs - additional kwargs to pass into the template queryset
 - queryset to be rendered on the page title - title to use in template page_description - subtitle to use in

template table - htm file rendering the queryset to be included in the generic_list template modals - htm file rendering additional modals to be included in the generic_list template allow_create_groups - comma separated list of groups that are allowed to create a new record

create_form_obj - create form object create_form_url - url the create form (action) should post to create_form_title - title to use on the create form modal (can be html) create_form_modal - name of modal for the create form create_form_modal_size - bootstrap modal size class (such as modal-lg) create_form_modal_backdrop - optional data-backdrop value (such as data-backdrop="static") create_form_link_title - text used for the link opening the create form create_form_tool_tip - text to use for the create form link tooltip create_form_autocomplete - autocomplete parameter to use in form tag (on/off)

filter_form_obj - filter form object filter_form_url - url the filter form (action) should post to filter_form_title - title to use on the filter form modal (can be html) filter_form_modal - name of modal for the filter form filter_form_modal_size - bootstrap modal size class (such as modal-lg) filter_form_modal_backdrop - optional data-backdrop value (such as data-backdrop="static") filter_form_link_title - text used for the link opening the filter form filter_form_tool_tip - text to use for the filter form link tooltip filter_form_undo - include an undo icon to clear applied filters filter_form_autocomplete - autocomplete parameter to use in form tag (on/off)

example:

```
class ListProjects(HandyHelperBaseCreateListView): queryset = Project.objects.all() title = 'Projects'
    page_description = 'my cool projects' table = 'table/table_projects.htm'

    create_form_obj = ProjectForm create_form_url = '/hostmgr/create_project/' create_form_title
    = '<b>Add Project: </b><small> </small>' create_form_modal = 'add_project' create
    _form_modal_backdrop = 'static' create_form_link_title = 'add project' create_form_tool_tip =
    'add project'

    filter_form_obj = ProjectForm filter_form_url = '/hostmgr/filter_project/' filter_form_title
    = '<b>Filter Projects: </b><small> </small>' filter_form_modal = 'filter_projects' fil
    ter_form_modal_backdrop = 'static' filter_form_link_title = 'filter projects' filter_form_tool_tip =
    'filter projects' filter_form_undo = True
```

1.4.2 Export Views

class handyhelpers.views.export.CsvExportView (**kwargs)

View to dump a queryset to a csv file

class parameters: queryset - queryset to be rendered on the page filename - filename for the output file created; model name used if not provided

class handyhelpers.views.export.ExcelExportView (**kwargs)

View to dump a queryset to a xls file

class parameters: queryset - queryset to be rendered on the page filename - filename for the output file created; model name used if not provided

1.4.3 View Mixins

class handyhelpers.mixins.view_mixins.FilterByQueryParamsMixin

Mixin used to evaluate query parameters provided in the URL and update a queryset accordingly. This is typically used on list views. Query parameters passed must be valid model fields. Invalid parameters are ignored.

class parameters: request - request object queryset - django queryset page_description - optional parameter used to describe page; typically used as a page subtitle distinct - optional parameter to make queryset include only distinct results

example usage: class HandyHelperGenericBaseListView(FilterByQueryParamsMixin, ListView)

filter_by_query_params ()

Description: Filters a queryset by query_params in the URL

Returns: filtered queryset

1.4.4 Viewset Mixins

class handyhelpers.mixins.viewset_mixins.**InvalidLookupMixin**

A mixin for Django Rest Framework viewsets to check query parameters and return an error if any query parameter is not a included in defined in a filter_class (typically defined in your filterset), and element of filter_fields (typically set in your viewset), or a valid model field. Order of precedence is: filter_class, filterset_fields, filter_fields, model field.

class parameters: request - request object (as provided by Viewset) model - django model (as provided by Viewset) queryset - django queryset (as provided by Viewset) filterset_class - optional filterset_class (as provided by Viewset) filter_class - optional filter_class (as provided by Viewset) filterset_fields - optional filterset_fields (as provided by Viewset) filter_fields - optional filter_fields (as provided by Viewset)

example usage: class MyModelViewSet(InvalidLookupMixin, viewsets.ReadOnlyModelViewSet):

get_lookup_expression (fs_filter, related_field=None, lookup_expression_list=None)
get lookup expressions as defined in a FilterSet filter

Args: fs_filter: list of filters as defined in the filterset related_field: related field as defined in filterset
lookup_expression_list: list of lookup expressions as defined for a field in a filterset

Returns: list of filtered lookup expressions

class handyhelpers.mixins.viewset_mixins.**PaginationControlMixin**

A mixin for Django Rest Framework viewsets that allows pagination to be disabled by including a specific query parameter. Default query parameter for disabling pagination is 'disable_pagination' and this can be modified by setting the PAGINATION_CONTROL_PARAMETER variable to the desired value in django settings.

1.4.5 Permission Mixins

Description: Collection of helpers to assist with permissions on views

How to use: Add in your view as a mixin and define groups per method in permission_dict. Example:

class MyView(InAnyGroup, View):

permission_dict = {'POST': ['superusers'], 'GET': ['operators'] }

class handyhelpers.permissions.**InAllGroups**

Description: Restrict access based on request method and user group; user must be in ALL required groups

Usage:

add as mixin to class definition and put the following in your viewset:

permission_dict = {'POST': ['site_operators', 'site_admins'],
'GET': ['site_operators'],

```
}

```

to restrict POST, but allow GET for all users use the following:

```
permission_dict = {'POST': ['site_admins'],
                  'GET': [],
                  }
```

class handyhelpers.permissions.InAnyGroup

Description: Restrict access based on request method and user group; user can be in ANY required group

Usage:

add as mixin to class definition and put the following in your viewset:

```
permission_dict = {'POST': ['site_admins'],
                  'GET': ['site_admins', 'site_operators'],
                  }
```

to restrict POST, but allow GET for all users use the following:

```
permission_dict = {'POST': ['site_admins'],
                  'GET': [],
                  }
```

1.4.6 DRF Permission Mixins

Permissions classes used with DRF APIs

class handyhelpers.drf_permissions.IsInAllGroups

Description: Restrict access based on request method and user group; user must be in ALL required groups

Usage:

put the following in your viewset:

```
permission_classes = (IsInAllGroups,)
required_groups = {'POST': ['site_admins'],
                  'PATCH': ['site_admins'], 'PUT': ['site_admins'], 'DELETE': ['site_admins', 'site_managers'],
                  }
```

has_permission (*request, view*)

Return *True* if permission is granted, *False* otherwise.

class handyhelpers.drf_permissions.IsInAnyGroup

Description: Restrict access based on request method and user group; user can be in ANY required group

Usage:

put the following in your viewset:

```
permission_classes = (IsInAnyGroup,)
required_groups = {'POST': ['site_admins'],
                  'PATCH': ['site_admins'], 'PUT': ['site_admins'], 'DELETE': ['site_admins', 'superusers'],
                  }
```

`has_permission` (*request, view*)
Return *True* if permission is granted, *False* otherwise.

1.5 Version History

Release	Details
0.1.5	adding modal size parameter for modals used in create and filter forms
0.1.0	updates to support django 3.2
0.0.27	added HandyHelperListPlusFilterView and HandyHelperListPlusCreateAndFilterView
0.0.26	updated docstrings for views; added arg/kwargs to views
0.0.25	removing.djangohelpers path; only using handyhelpers now
0.0.24	added zoom and card css
0.0.23	adding support for drf-dynamic-fields in INVALID_LOOKUP_SKIP_LIST
0.0.22	adding INVALID_LOOKUP_SKIP_LIST parameter via settings variable for InvalidLookup-Mixin
0.0.21	updating jinja templates and output path for drf generation
0.0.20	adding related_objects and distinct option to FilterByQueryParamsMixin

1.6 LICENSE

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