
Trionyx Documentation

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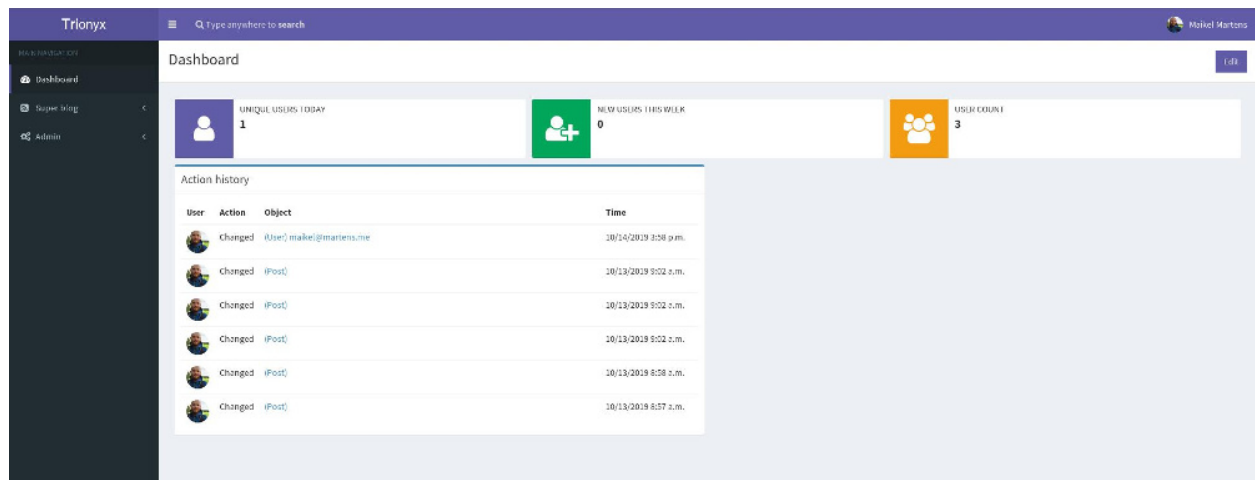
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CHAPTER 1

Introduction

Trionyx is a Django web stack/framework for creating business applications. It's focus is for small company's that want to use business application instead of Excel and Google doc sheets.

With Trionyx the developer/business can focus on there domain models, business rules and processes and Trionyx will take care of the interface.



CHAPTER 2

Installation

To install Trionyx, run:

```
pip install Trionyx
```

2.1 Create new project

For creating a new project, run:

```
trionyx create_project <project name>
```

Follow the steps given. And by the end you have a running base project ready to extend.

CHAPTER 3

Getting started

Django already gives a solid foundation for building apps. Trionyx add some improvements like auto loading signals/forms/cron's. It also add new things as default views/api/background tasks (celery).

In this *getting started* guide we will create a new app, to show you a little of the basics on how Trionyx work and what it can do.

This guide assumes you have followed the [installation instructions](#), and you are now in the root of your new project with the virtual environment active

This guide requires no previous knowledge of Django, but it wont go in depth on how Django works

3.1 Your first app

First we need to create a new app. Default Trionyx structure all apps go in the **apps** folder. To create a base app use the following manage command:

```
./manage.py create_app knowledgebase
```

In your apps folder should be your new app knowledgebase. For using the app we need to add it the INSTALLED_APPS:

```
# config/settings/base.py
# ...

INSTALLED_APPS += [
    'apps.knowledgebase',
]

# ...
```

3.2 File structure

A Trionyx file structure looks as follows. The ones marked as **bold**, are the ones you typically use in a Trionyx app. The others are used with a Django app and can be used if you need more customization.

- **<app name>**
 - **migrations**: DB migrations, these are auto generated by Django
 - static: folder with your static files (js/css/images/icons)
 - templates: HTML template files
 - **apps.py**: Contains the **app** and *model* configuration
 - **cron.py**: *Cron configuration*
 - **forms.py**: *Create* and *register* your forms.
 - **layouts.py**: *Create* your layouts
 - **models.py**: *Define* your models
 - **tasks.py**: *Create* your background tasks
 - **urls.y**: *Define* your custom urls
 - **views.py**: *Create* your custom views

3.3 Create model

We need a model to store our articles, this is just a simple Django model. Only difference is that we extend from BaseModel that add some extra Trionyx fields and functions.

```
# apps/knowledgebase/models.py
from trionyx import models
from django.contrib.contenttypes import fields

class Article(models.BaseModel):

    title = models.CharField(max_length=255)
    content = models.TextField()

    # Generic relation so that different model types can be linked
    # More info: https://docs.djangoproject.com/en/2.2/ref/contrib/contenttypes/
    ↪ #generic-relations
    linked_object_type = models.ForeignKey(
        'contenttypes.ContentType',
        models.SET_NULL,
        blank=True,
        null=True,
    )
    linked_object_id = models.BigIntegerField(blank=True, null=True)
    linked_object = fields.GenericForeignKey('linked_object_type', 'linked_object_id')
```

After you created the model you need to make a migration (tells the database what to do). And then run the migration to create the database table.

```
./manage.py makemigrations ./manage.py migrate
```

If you run your project with *make run* and you login on it. You will see the menu has a Knowledgebase -> Article entry. You can create/view/edit articles but default list view is only id, and form is not user friendly.

3.4 Custom Form

Lets update the create and edit form to only show the title and content. And improve the content form field by using a wysiwyg editor.

```
# apps/knowledgebase/forms.py
from trionyx import forms
from .models import Article

@forms.register(default_create=True, default_edit=True)
class ArticleForm(forms.ModelForm):
    content = forms.Wysiwyg()

    # We are going to use this later
    linked_object_type = forms.ModelChoiceField(ContentType.objects.all(),
    ↪required=False, widget=forms.HiddenInput())
    linked_object_id = forms.IntegerField(required=False, widget=forms.HiddenInput())

    class Meta:
        model = Article
        fields = ['title', 'content']
```

If you refresh your page you should see an improved create form. When you created an article it is rendered with a simple default layout, we are going to change that later. First do some configuration so that there is a better verbose name, one menu item and a better default list view.

3.5 Model configuration

You can configure your model in the *apps.py*, lets change some for Article:

```
# apps/knowledgebase/apps.py
from trionyx.trionyx.apps import BaseConfig, ModelConfig

class Config(BaseConfig):
    """Knowledgebase configuration"""

    name = 'apps.knowledgebase'
    verbose_name = 'Knowledgebase'

    class Article(ModelConfig):

        # Improve default list view for users
        list_default_fields = ['created_at', 'created_by', 'title']

        # Set a clear verbose name instead of 'Article(1)'
        verbose_name = '{title}'

        # Move menu item to root and set a nice icon
        menu_root = True
        menu_icon = 'fa fa-book'
```

If you take a look now at the list view it looks much more informative. And the extra submenu is also replaced by only one menu item with a nice icon.

3.6 Custom Layout

Lets update the layout to remove some unnecessary fields and add some new ones. Layouts are build with components, so you dont need to write HTML. If you need something custom and dont want to build everything in HTML. There is the `trionyx.layout.HtmlTemplate` component that renders a given django template and context.

```
# apps/knowledgebase/layouts.py
from trionyx.views import tabs
from trionyx.layout import Column12, Panel, TableDescription

#register a new tab default this will be `general`
@tabs.register('knowledgebase.article')
def article_layout(obj):
    return Column12(
        Panel(
            obj.title, # For panel the first argument is the title,
            # all other arguments are components
            TableDescription(
                'created_by',
                'created_at',
                'updated_at',
                'content',
            )
        )
    )
```

This looks nice for your model, lets use that generic field that we created on the model and form. As you can see with the tab register you can create a tab for every model you want. We are going to at a knowledgebase tab to the *admin* -> *users*:

```
# apps/knowledgebase/layouts.py
from trionyx.views import tabs
from trionyx.layout import Column12, Panel, TableDescription, Button, Component, Html
from django.contrib.contenttypes.models import ContentType
from trionyx.urls import model_url

from .models import Article

# ...

@tabs.register('trionyx.user', code='knowledgebase')
def user_layout(obj):
    content_type = ContentType.objects.get_for_model(obj)

    return Column12(
        # Render a create button
        Button(
            'create article',
            url=model_url(Article, 'dialog-create', params={
                'linked_object_type': content_type.id,
                'linked_object_id': obj.id,
            }),
        ),
    )
```

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```

        dialog=True,
        dialog_reload_tab='knowledgebase',
        css_class='btn btn-flat bg-theme btn-block'
    ),
    # Render every article in a new Panel
    *[
        Panel(
            art.title,
            TableDescription(
                'created_by',
                'created_at',
                'updated_at',
                # Components that accept fields can do so in different formats
                # Default is string of field name and it will get the label and
↪ value

                {
                    'label': 'Content',
                    'value': Component(
                        Html(art.content),
                        Button(
                            'Edit',
                            url=model_url(art, 'dialog-edit'),
                            dialog=True,
                            dialog_reload_tab='knowledgebase',
                            css_class='btn btn-flat bg-theme btn-block'
                        ),
                    ),
                },
                object=art,
            )
        ) for art in Article.objects.filter(
            linked_object_type=content_type,
            linked_object_id=obj.id,
        )
    ]
)

```

If you reload the page on a user you will see a new tab *knowledgebase*. Articles that you create here are shown in the tab.

3.7 Signals

Django uses signals to allow you to get notifications on certain events from other apps. In this example we are going to use signals on our own Model to send an email to all users when a new article is created.

```

# apps/knowledgebase/signals.py
from django.db.models.signals import post_save
from django.dispatch import receiver
from trionyx.trionyx.models import User
from .models import Article

@receiver(post_save, sender=Article)
def notify_users(sender, instance, created=False, **kwargs):

```

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```
if created:
    for user in User.objects.all():
        user.send_email(
            subject=f"New Article: {instance.title}",
            body=instance.content,
        )
```

You can find more information about signals [here](#), Only thing that Trionyx does is auto import *signals.py* from all apps.

3.8 Background Task

Trionyx uses celery for background tasks, it comes preconfigured with 3 queue's. For more information go [here](#). For our app we are going to use a scheduled background task to send a summary every week.

```
# apps/knowledgebase/tasks.py
from trionyx.tasks import shared_task
from django.utils import timezone
from trionyx.trionyx.models import User
from .models import Article

@shared_task()
def email_summary():
    count = Article.objects.filter(created_at__gt=timezone.now() - timezone.
    →timedelta(days=7)).count()
    for user in User.objects.all():
        user.send_email(
            subject=f"There are {count} new articles",
            body=f"There are {count} new articles",
        )
```

To make this task run every week we need to add it to the cron. You can do this from inside your app by creating a *cron.py*.

```
# apps/knowledgebase/cron.py
from celery.schedules import crontab

schedule = {
    'article-summary-every-sunday': {
        'task': 'apps.knowledgebase.tasks.email_summary',
        'schedule': crontab(minute=0, hour=0, day_of_week=0)
    },
}
```

Now *email_summary* will be run every sunday. For more information on scheduling go [here](#)

3.9 API

If you go to <http://localhost:8000/api/> you can see that Trionyx automatically created an API entry point. Trionyx make use of the [Django REST framework](#) you can easily create your own endpoint or change the serializer user by the generated end point.

```
# apps/knowledgebase/serializers.py or apps/knowledgebase/api/serializers.py
from trionyx.api import serializers
from trionyx.trionyx.models import User
from .models import Article

class UserSerializer(serializers.ModelSerializer):
    class Meta:
        model = User
        fields = ['id', 'email', 'first_name', 'last_name']

@serializers.register
class UserSerializer(serializers.ModelSerializer):
    created_by = UserSerializer()

    class Meta:
        model = Article
        fields = ['created_by', 'title', 'content']
```

I hope you have a better understanding on how to use Trionyx. And that it can help you build you business application with the focus on your data and processes.

All Trionyx base settings

`trionyx.settings.gettext_noop(s)`

Return same string, Dummy function to find translatable strings with makemessages

`trionyx.settings.get_env_var(setting: str, default: Optional[Any] = None, configs: Dict[str, Any] = {'DEBUG': True, 'SECRET_KEY': 'Not a secret'}) → Any`

Get environment variable from the environment json file

Default environment file is *environment.json* in the root of project, Other file path can be set with the *TRI-ONYX_CONFIG* environment variable

`trionyx.settings.get_watson_search_config(language)`

Get watson language config, default to pg_catalog.english for not supported language

List of supported languages can be found on <https://github.com/etianen/django-watson/wiki/Language-support#language-support>

`trionyx.settings.LOGIN_EXEMPT_URLS = ['^static', '^(api|openapi)', '^basic-auth']`

A list of urls that dont require a login

`trionyx.settings.TX_APP_NAME = 'Trionyx'`

Full application name

`trionyx.settings.TX_LOGO_NAME_START = 'Tri'`

The first characters of the name that are bold

`trionyx.settings.TX_LOGO_NAME_END = 'onyx'`

The rest of the characters

`trionyx.settings.TX_LOGO_NAME_SMALL_START = 'T'`

The first character or characters of the small logo that is bold

`trionyx.settings.TX_LOGO_NAME_SMALL_END = 'X'`

The last character or characters of the small logo that is normal

`trionyx.settings.TX_THEME_COLOR = 'purple'`
The theme skin color (header). Aviable colors: blue, yellow, green, purple, red, black. All colors have a light version blue-light

`trionyx.settings.TX_COMPANY_NAME = 'Trionyx'`
Company name

`trionyx.settings.TX_COMPANY_ADDRESS_LINES = []`
Company address lines

`trionyx.settings.TX_COMPANY_TELEPHONE = ''`
Company telephone number

`trionyx.settings.TX_COMPANY_WEBSITE = ''`
Company website address

`trionyx.settings.TX_COMPANY_EMAIL = ''`
Company email address

`trionyx.settings.TX_DISABLE_AUDITLOG = False`
Disable auditlog

`trionyx.settings.TX_DISABLE_API = False`
Diabile API

`trionyx.settings.TX_DEFAULT_DASHBOARD()`
Return default dashboard

`trionyx.settings.TX_MODEL_OVERWRITES = {}`
Config to overwrite models, its a dict where the key is the original *app_label.model_name* and value is the new one.

```
TX_MODEL_OVERWRITES = {
    'trionyx.User': 'local.User',
}
```

`trionyx.settings.TX_MODEL_CONFIGS = {}`
Dict with configs for non Trionyx model, example:

```
TX_MODEL_CONFIGS = {
    'auth.group': {
        'list_default_fields': ['name'],
        'disable_search_index': False,
    }
}
```

`trionyx.settings.TX_DB_LOG_LEVEL = 30`
The DB log level for logging

`trionyx.settings.TX_CHANGELOG_HASHTAG_URL = None`
Url to convert all hastags to example: <https://github.com/krukas/Trionyx/issues/{tag}>

`trionyx.settings.TX_SHOW_CHANGELOG_NEW_VERSION = True`
Show changelog dialog with new version

`trionyx.settings.TX_SHOW_FOOTER = True`
Show footer

5.1 Model configuration

class trionyx.config.**ModelConfig**(model: *Type[django.db.models.base.Model]*, *MetaConfig=None*)

ModelConfig holds all config related to a model that is used for trionyx functionality.

Model configs are auto loaded from the apps config file. In the apps config class create a class with same name as model and set appropriate config as class attribute.

```
# apps.blog.apps.py
class BlogConfig(BaseConfig):
    ...

    # Example config for Category model
    class Category(ModelConfig):
        verbose_name = '{name}'
        list_default_fields = ['id', 'created_at', 'name']
        list_search_fields = ['name', 'description']
```

menu_name = None

Menu name, default is model verbose_name_plural

menu_order = None

Menu order

menu_exclude = False

Exclude model from menu

menu_root = False

Add menu item to root instead of under the app menu

menu_icon = None

Menu css icon, is only used when root menu item

global_search = True

Enable global search for model

disable_search_index = False

Disable search index, use full for model with no list view but with allot of records

search_fields = []

Fields to use for searching, default is all CharField and TextField

search_exclude_fields = []

Fields you don't want to use for search

search_title = None

Search title of model works the same as *verbose_name*, defaults to `__str__`. Is given high priority in search and is used in global search

search_description = None

Search description of model works the same as *verbose_name*, default is empty, Is given medium priority and is used in global search page

list_fields = None

Customise the available fields for model list view, default all model fields are available.

`list_fields` is an array of dict with the field description, the following options are available:

- **field**: Model field name (is used for sort and getting value if no renderer is supplied)
- **label**: Column name in list view, if not set *verbose_name* of model field is used
- **renderer**: function(model, field) that returns a JSON serializable date, when not set model field is used.

```
list_fields = [  
    {  
        'field': 'first_name',  
        'label': 'Real first name',  
        'renderer': lambda model, field: model.first_name.upper()  
    }  
]
```

list_default_fields = None

Array of fields that default is used in form list

list_prefetch_related = None

Array of fields to prefetch for query, use this for relations that are used in search or renderer

list_default_sort = '-pk'

Default sort field for list view

list_update_queryset = None

Function to update queryset

api_fields = None

Fields used in API POST/PUT/PATCH methods, fallback on fields used in create and edit forms

api_description = None

Description text that is shown in the API documentation

api_disable = False

Disable API for model

verbose_name = '{model_name}({id})'

Verbose name used for displaying model, default value is "{model_name}({id})"

format can be used to get model attributes value, there are two extra values supplied:

- `app_label`: App name
- `model_name`: Class name of model

header_buttons = None

List with button configurations to be displayed in view header bar

```
view_header_buttons = [
    {
        'label': 'Send email', # string or function
        'url': lambda obj : reverse('blog.post', kwargs={'pk': obj.id}), # 
        ↪string or function
        'type': 'default',
        'show': lambda obj, context: context.get('page') == 'view', # Function, 
        ↪that gives True or False if button must be displayed
        'dialog': True,
        'dialog_options': """function(data, dialog){
            // Example that will close dialog on success
            if (data.success) {
                dialog.close();
            }
        }"""
    }
]
```

display_add_button = True

Display add button for this model

display_change_button = True

Display change button for this model

display_delete_button = True

Display delete button for this model

disable_view = False

Disable view for this model

disable_add = False

Disable add for this model

disable_change = False

Disable change for this model

disable_delete = False

Disable delete for this model

admin_view_only = False

Only admins can view this model

admin_add_only = False

Only admins can add this model

admin_change_only = False

Only admins can change this model

admin_delete_only = False

Only admins can delete this model

auditlog_disable = False

Disable auditlog for this model

auditlog_ignore_fields = None
Auditlog fields to be ignored

hide_permissions = False
Dont show model in permissions tree, prevent clutter from internal models

get_app_verbose_name (*title: bool = True*) → str
Get app verbose name

get_verbose_name (*title: bool = True*) → str
Get class verbose name

get_verbose_name_plural (*title: bool = True*) → str
Get class plural verbose name

is_trionyx_model
Check if config is for Trionyx model

has_config (*name: str*) → bool
Check if config is set

has_permission (*action, obj=None, user=None*)
Check if action can be performed on object

get_field (*field_name*)
Get model field by name

get_fields (*inlcude_base: bool = False, include_id: bool = False*)
Get model fields

get_url (*view_name: str, model: django.db.models.base.Model = None, code: str = None*) → str
Get url for model

get_absolute_url (*model: django.db.models.base.Model*) → str
Get model url

get_list_fields () → List[dict]
Get all list fields

get_field_type (*field: django.db.models.fields.Field*) → str
Get field type base on model field class

get_header_buttons (*obj=None, context=None*)
Get header buttons for given page and object

Layout and Components

Layouts are used to render a view for an object. Layouts are defined and registered in `layouts.py` in an app.

Example of a tab layout for the user profile:

```
@tabs.register('trionyx.profile')
def account_overview(obj):
    return Container(
        Row(
            Column2(
                Panel(
                    'Avatar',
                    Img(src="{}".format(settings.MEDIA_URL, obj.avatar)),
                    collapse=True,
                ),
            ),
            Column10(
                Panel(
                    'Account information',
                    DescriptionList(
                        'email',
                        'first_name',
                        'last_name',
                    ),
                ),
            ),
        ),
    )
```

```
class trionyx.layout.Colors
```

```
class trionyx.layout.Layout(*components, **options)
    Layout object that holds components
```

```
    get_paths()
        Get all paths in layout for easy lookup
```

find_component_by_path (*path*)

Find component by path, gives back component and parent

find_component_by_id (*id=None, current_comp=None*)

Find component by id, gives back component and parent

render (*request=None*)

Render layout for given request

collect_css_files (*component=None*)

Collect all css files

collect_js_files (*component=None*)

Collect all js files

set_object (*object*)

Set object for rendering layout and set object to all components

Parameters *object* –

Returns

add_component (*component, id=None, path=None, before=False, append=False*)

Add component to existing layout can insert component before or after component

Parameters

- **component** –
- **id** – component id
- **path** – component path, example: container.row.column6[1].panel
- **append** – append component to selected component from id or path

Returns

delete_component (*id=None, path=None*)

Delete component for given path or id

Parameters

- **id** – component id
- **path** – component path, example: container.row.column6[1].panel

Returns

class trionyx.layout.**Component** (**components, **options*)

Base component can be use as an holder for other components

template_name = ''

Component template to be rendered, default template only renders child components

js_files = []

List of required javascript files

css_files = []

List of required css files

set_object (*object, force=False, layout_id=None*)

Set object for rendering component and set object to all components

when object is set the layout should be complete with all components. So we also use it to set the layout_id so it's available in the updated method and also prevent whole other lookup of all components.

Parameters *object* –

Returns**updated()**

Object updated hook method that is called when component is updated with object

render (*context, request=None*)

Render component

class trionyx.layout.**ComponentFieldsMixin**

Mixin for adding fields support and rendering of object(s) with fields.

fields = []

List of fields to be rendered. Item can be a string or dict, default options:

- **field**: Name of object attribute or dict key to be rendered
- **label**: Label of field
- **value**: Value to be rendered (Can also be a component)
- **format**: String format for rendering field, default is '{0}'
- **renderer**: Render function for rendering value, result will be given to format. (lambda value, ****options**: value)

Based on the order the fields are in the list a `__index__` is set with the list index, this is used for rendering a object that is a list.

```
fields = [
    'first_name',
    'last_name'
]

fields = [
    'first_name',
    {
        'label': 'Real last name',
        'value': object.last_name
    }
]
```

fields_options = {}

Options available for the field, this is not required to set options on field.

- **default**: Default option value when not set.

```
fields_options = {
    'width': {
        'default': '150px',
    }
}
```

objects = []

List of object to be rendered, this can be a QuerySet, list or string. When its a string it will get the attribute of the object.

The items in the objects list can be a mix of Models, dicts or lists.

add_field (*field, index=None*)

Add field

get_fields ()

Get all fields

parse_field (*field_data*, *index=0*)
Parse field and add missing options

parse_string_field (*field_data*)
Parse a string field to dict with options

String value is used as field name. Options can be given after = symbol. Where key value is separated by : and different options by ;, when no : is used then the value becomes True.

Example 1: *field_name*

```
# Output
{
    'field': 'field_name'
}
```

Example 3 *field_name=option1:some value;option2: other value*

```
# Output
{
    'field': 'field_name',
    'option1': 'some value',
    'option2': 'other value',
}
```

Example 3 *field_name=option1;option2: other value*

```
# Output
{
    'field': 'field_name',
    'option1': True,
    'option2': 'other value',
}
```

Parameters *field_data* (*str*) –

Return dict

get_value (*field*, *data*)
Get value

render_field (*field*, *data*)
Render field for given data

get_rendered_object (*obj=None*)
Render object

get_rendered_objects ()
Render objects

get_objects ()
Get objects

class trionyx.layout.**HtmlTemplate** (*template_name*, *context=None*, *css_files=None*,
js_files=None, ***options*)

HtmlTemplate render django html template

render (*context*, *request=None*)
Render component

```

class trionyx.layout.HtmlTagWrapper(*args, **kwargs)
    HtmlTagWrapper wraps given component in given html tag

    tag = 'div'
        Html tag nam

    valid_attr = []
        Valid attributes that can be used

    color_class = ''
        When color is set the will be used as class example: btn btn-{color}

    attr = {}
        Dict with html attributes

    get_attr_text()
        Get html attr text to render in template

class trionyx.layout.OnclickTag(*components, url=None, model_url=None,
                                model_params=None, model_code=None, sidebar=False, di-
                                alog=False, dialog_options=None, dialog_reload_tab=None,
                                dialog_reload_sidebar=False, dialog_reload_layout=False,
                                **options)
    HTML tag with onclick for url or dialog

    updated()
        Set onClick url based on object

    format_dialog_options()
        Fromat options to JS dict

class trionyx.layout.Html(html=None, **kwargs)
    Renders html in a tag when set

class trionyx.layout.Field(field, renderer=None, format=None, **options)
    Render single field from object

    updated()
        Update html

class trionyx.layout.Img(html=None, **kwargs)
    Img tag

class trionyx.layout.Link(label=None, href=None, **kwargs)
    Link tag

    updated()
        Update link

class trionyx.layout.OnclickLink(label, **options)
    Link

class trionyx.layout.Container(*args, **kwargs)
    Bootstrap container

class trionyx.layout.Row(*args, **kwargs)
    Bootstrap row

class trionyx.layout.Column(*args, **kwargs)
    Bootstrap Column

class trionyx.layout.Column2(*args, **kwargs)
    Bootstrap Column 2

```

```

class trionyx.layout.Column3 (*args, **kwargs)
    Bootstrap Column 3

class trionyx.layout.Column4 (*args, **kwargs)
    Bootstrap Column 4

class trionyx.layout.Column5 (*args, **kwargs)
    Bootstrap Column 5

class trionyx.layout.Column6 (*args, **kwargs)
    Bootstrap Column 6

class trionyx.layout.Column7 (*args, **kwargs)
    Bootstrap Column 7

class trionyx.layout.Column8 (*args, **kwargs)
    Bootstrap Column 8

class trionyx.layout.Column9 (*args, **kwargs)
    Bootstrap Column 9

class trionyx.layout.Column10 (*args, **kwargs)
    Bootstrap Column 10

class trionyx.layout.Column11 (*args, **kwargs)
    Bootstrap Column 11

class trionyx.layout.Column12 (*args, **kwargs)
    Bootstrap Column 12

class trionyx.layout.Badge (value, **kwargs)
    Bootstrap badge

class trionyx.layout.Alert (html, alert='success', no_margin=False, **options)
    Bootstrap alert

class trionyx.layout.ButtonGroup (*args, **kwargs)
    Bootstrap button group

class trionyx.layout.Button (label, **options)
    Bootstrap button

class trionyx.layout.Thumbnail (src, **options)
    Bootstrap Thumbnail

class trionyx.layout.Input (form_field=None, has_error=False, **kwargs)
    Input tag

class trionyx.layout.Panel (title, *components, **options)
    Bootstrap panel available options
        • title
        • footer_components
        • collapse
        • contextual: primary, success, info, warning, danger

    set_object (*args, **kwargs)
        Set object on component

class trionyx.layout.DescriptionList (*fields, **options)
    Bootstrap description, fields are the params. available options

```

- horizontal

class trionyx.layout.**UnorderedList** (**fields, objects=None, **options*)
Unordered list

updated()
Set html with rendered fields

class trionyx.layout.**OrderedList** (**fields, objects=None, **options*)
Ordered list

class trionyx.layout.**ProgressBar** (*field=*"", *value=0, max_value=100, size='md', striped=False, active=False, **options*)
Bootstrap progressbar, fields are the params

updated()
Set value with rendered field

class trionyx.layout.**TableDescription** (**fields, **options*)
Bootstrap table description, fields are the params

class trionyx.layout.**Table** (*objects, *fields, css_class='table', header=True, condensed=True, hover=False, striped=False, bordered=False, **options*)
Bootstrap table

footer: array with first items array/queryset and other items are the fields, Same way how the constructor works

footer_objects = None
Can be string with field name relation, Queryset or list

get_footer_fields()
Get all footer fields

get_rendered_footer_object (*obj*)
Render footer object

get_rendered_footer_objects()
Render footer objects

class trionyx.layout.**Chart** (*objects, *fields, **options*)
Chart component

get_json_value (*value*)
Get json value

get_colors (*size, color_type*)
Get colors

get_color (*index, color_type*)
Get color

class trionyx.layout.**LineChart** (*objects, *fields, **options*)

updated()
Set chart data and scales

class trionyx.layout.**BarChart** (*objects, *fields, **options*)

class trionyx.layout.**PieChart** (*objects, *fields, **options*)
BarChart

updated()
Set chart data and scales

```
class trionyx.layout.DoughnutChart (objects, *fields, **options)  
    BarChart
```

Default Trionyx will generate a form for all fields without any layout. Forms can be created and registered in the *forms.py*.

```
trionyx.forms.register(code: Optional[str] = None, model_alias: Optional[str] = None, default_create: Optional[bool] = False, default_edit: Optional[bool] = False, minimal: Optional[bool] = False, create_permission: Optional[str] = None, edit_permission: Optional[str] = None)
```

Register form for given model_alias, if no model_alias is given the Meta.model is used to generate the model alias.

Parameters

- **code** (*str*) – Code to identify form
- **model_alias** (*str*) – Alias for a model (if not provided the Meta.model is used)
- **default_create** (*bool*) – Use this form for create
- **default_edit** (*bool*) – Use this form for editing
- **minimal** (*bool*) – Use this form for minimal create

```
# <app>/forms.py
from trionyx import forms

@forms.register(default_create=True, default_edit=True)
class UserForm(forms.ModelForm):

    class Meta:
        model = User
```

7.1 Layout

Forms are rendered in Trionyx with crispy forms using the bootstrap3 template.

```
from django import forms
from crispy_forms.helper import FormHelper
from crispy_forms.layout import Layout, Fieldset, Div

class UserUpdateForm(forms.ModelForm):
    # your form fields

    def __init__(self, *args, **kwargs):
        super().__init__(*args, **kwargs)
        self.helper = FormHelper()
        self.helper.layout = Layout(
            'email',
            Div(
                Fieldset(
                    'Personal info',
                    'first_name',
                    'last_name',
                    css_class="col-md-6",
                ),
                Div(
                    'avatar',
                    css_class="col-md-6",
                ),
                css_class="row"
            ),
            Fieldset(
                'Change password',
                'new_password1',
                'new_password2',
            ),
        )
```

7.2 Crispy Forms

7.2.1 Standard

class `crispy_forms.layout.Layout` (*fields)

Form Layout. It is conformed by Layout objects: *Fieldset*, *Row*, *Column*, *MultiField*, *HTML*, *ButtonHolder*, *Button*, *Hidden*, *Reset*, *Submit* and fields. Form fields have to be strings. Layout objects *Fieldset*, *Row*, *Column*, *MultiField* and *ButtonHolder* can hold other Layout objects within. Though *ButtonHolder* should only hold *HTML* and *BaseInput* inherited classes: *Button*, *Hidden*, *Reset* and *Submit*.

Example:

```
helper.layout = Layout(
    Fieldset('Company data',
        'is_company'
    ),
    Fieldset(_('Contact details'),
        'email',
        Row('password1', 'password2'),
        'first_name',
        'last_name',
        HTML(''),
```

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```

        'company'
    ),
    ButtonHolder(
        Submit('Save', 'Save', css_class='button white'),
    ),
)

```

class `crispy_forms.layout.ButtonHolder` (**fields, **kwargs*)

Layout object. It wraps fields in a `<div class="buttonHolder">`

This is where you should put Layout objects that render to form buttons like `Submit`. It should only hold *HTML* and *BaseInput* inherited objects.

Example:

```

ButtonHolder(
    HTML(<span style="display: hidden;">Information Saved</span>),
    Submit('Save', 'Save')
)

```

class `crispy_forms.layout.BaseInput` (*name, value, **kwargs*)

A base class to reduce the amount of code in the Input classes.

render (*form, form_style, context, template_pack=<SimpleLazyObject: 'bootstrap3'>, **kwargs*)

Renders an `<input />` if container is used as a Layout object. Input button value can be a variable in context.

class `crispy_forms.layout.Submit` (**args, **kwargs*)

Used to create a Submit button descriptor for the `{% crispy %}` template tag:

```
submit = Submit('Search the Site', 'search this site')
```

Note: The first argument is also slugified and turned into the id for the submit button.

class `crispy_forms.layout.Button` (**args, **kwargs*)

Used to create a Submit input descriptor for the `{% crispy %}` template tag:

```
button = Button('Button 1', 'Press Me!')
```

Note: The first argument is also slugified and turned into the id for the button.

class `crispy_forms.layout.Hidden` (*name, value, **kwargs*)

Used to create a Hidden input descriptor for the `{% crispy %}` template tag.

class `crispy_forms.layout.Reset` (**args, **kwargs*)

Used to create a Reset button input descriptor for the `{% crispy %}` template tag:

```
reset = Reset('Reset This Form', 'Revert Me!')
```

Note: The first argument is also slugified and turned into the id for the reset.

class `crispy_forms.layout.Fieldset` (*legend, *fields, **kwargs*)

Layout object. It wraps fields in a `<fieldset>`

Example:

```
Fieldset("Text for the legend",
        'form_field_1',
        'form_field_2'
)
```

The first parameter is the text for the fieldset legend. This text is context aware, so you can do things like:

```
Fieldset("Data for {{ user.username }}",
        'form_field_1',
        'form_field_2'
)
```

class `crispy_forms.layout.MultiField`(*label*, **fields*, ***kwargs*)
MultiField container. Renders to a MultiField <div>

class `crispy_forms.layout.Div`(**fields*, ***kwargs*)
Layout object. It wraps fields in a <div>

You can set *css_id* for a DOM id and *css_class* for a DOM class. Example:

```
Div('form_field_1', 'form_field_2', css_id='div-example', css_class='divs')
```

class `crispy_forms.layout.Row`(**fields*, ***kwargs*)
Layout object. It wraps fields in a div whose default class is “formRow”. Example:

```
Row('form_field_1', 'form_field_2', 'form_field_3')
```

class `crispy_forms.layout.Column`(**fields*, ***kwargs*)
Layout object. It wraps fields in a div so the wrapper can be used as a column. Example:

```
Column('form_field_1', 'form_field_2')
```

Depending on the template, *css* class associated to the div is `formColumn`, `row`, or `nothing`. For this last case, you must provide *css* classes. Example:

```
Column('form_field_1', 'form_field_2', css_class='col-xs-6',)
```

class `crispy_forms.layout.HTML`(*html*)
Layout object. It can contain pure HTML and it has access to the whole context of the page where the form is being rendered.

Examples:

```
HTML("{% if saved %}Data saved{% endif %}")
HTML('<input type="hidden" name="{{ step_field }}" value="{{ step0 }}" />')
```

class `crispy_forms.layout.Field`(**args*, ***kwargs*)
Layout object, It contains one field name, and you can add attributes to it easily. For setting class attributes, you need to use *css_class*, as *class* is a Python keyword.

Example:

```
Field('field_name', style="color: #333;", css_class="whatever", id="field_name")
```

class `crispy_forms.layout.MultiWidgetField`(**args*, ***kwargs*)
Layout object. For fields with `MultiWidget` as *widget*, you can pass additional attributes to each widget.

Example:

```
MultiWidgetField(
    'multiwidget_field_name',
    attrs=(
        {'style': 'width: 30px;'},
        {'class': 'second_widget_class'}
    ),
)
```

Note: To override widget's css class use `class` not `css_class`.

7.2.2 Bootstrap

class `crispy_forms.bootstrap.PrependedAppendedText` (*field*, *prepend_text=None*, *append_text=None*, **args*, ***kwargs*)

class `crispy_forms.bootstrap.AppendedText` (*field*, *text*, **args*, ***kwargs*)

class `crispy_forms.bootstrap.PrependedText` (*field*, *text*, **args*, ***kwargs*)

class `crispy_forms.bootstrap.FormActions` (**fields*, ***kwargs*)

Bootstrap layout object. It wraps fields in a `<div class="form-actions">`

Example:

```
FormActions(
    HTML(<span style="display: hidden;">Information Saved</span>),
    Submit('Save', 'Save', css_class='btn-primary')
)
```

class `crispy_forms.bootstrap.InlineCheckboxes` (**args*, ***kwargs*)

Layout object for rendering checkboxes inline:

```
InlineCheckboxes('field_name')
```

class `crispy_forms.bootstrap.InlineRadios` (**args*, ***kwargs*)

Layout object for rendering radiobuttons inline:

```
InlineRadios('field_name')
```

class `crispy_forms.bootstrap.FieldWithButtons` (**fields*, ***kwargs*)

class `crispy_forms.bootstrap.StrictButton` (*content*, ***kwargs*)

Layout object for rendering an HTML button:

```
Button("button content", css_class="extra")
```

class `crispy_forms.bootstrap.Container` (*name*, **fields*, ***kwargs*)

Base class used for *Tab* and *AccordionGroup*, represents a basic container concept

class `crispy_forms.bootstrap.ContainerHolder` (**fields*, ***kwargs*)

Base class used for *TabHolder* and *Accordion*, groups containers

first_container_with_errors (*errors*)

Returns the first container with errors, otherwise returns `None`.

open_target_group_for_form(*form*)

Makes sure that the first group that should be open is open. This is either the first group with errors or the first group in the container, unless that first group was originally set to active=False.

class `crispy_forms.bootstrap.Tab`(*name, *fields, **kwargs*)

Tab object. It wraps fields in a div whose default class is “tab-pane” and takes a name as first argument. Example:

```
Tab('tab_name', 'form_field_1', 'form_field_2', 'form_field_3')
```

render_link(*template_pack=<SimpleLazyObject: 'bootstrap3'>, **kwargs*)

Render the link for the tab-pane. It must be called after render so `css_class` is updated with active if needed.

class `crispy_forms.bootstrap.TabHolder`(**fields, **kwargs*)

TabHolder object. It wraps Tab objects in a container. Requires bootstrap-tab.js:

```
TabHolder(
    Tab('form_field_1', 'form_field_2'),
    Tab('form_field_3')
)
```

class `crispy_forms.bootstrap.AccordionGroup`(*name, *fields, **kwargs*)

Accordion Group (pane) object. It wraps given fields inside an accordion tab. It takes accordion tab name as first argument:

```
AccordionGroup("group name", "form_field_1", "form_field_2")
```

class `crispy_forms.bootstrap.Accordion`(**args, **kwargs*)

Accordion menu object. It wraps *AccordionGroup* objects in a container:

```
Accordion(
    AccordionGroup("group name", "form_field_1", "form_field_2"),
    AccordionGroup("another group name", "form_field")
)
```

class `crispy_forms.bootstrap.Alert`(*content, dismiss=True, block=False, **kwargs*)

Alert generates markup in the form of an alert dialog

Alert(content='Warning! Best check yo self, you're not looking too good.')

class `crispy_forms.bootstrap.UneditableField`(*field, *args, **kwargs*)

Layout object for rendering fields as uneditable in bootstrap

Example:

```
UneditableField('field_name', css_class="input-xlarge")
```

class `crispy_forms.bootstrap.InlineField`(**args, **kwargs*)

7.3 Trionyx

7.3.1 TimePicker

class `trionyx.forms.layout.TimePicker`(*field, **kwargs*)

Timepicker field renderer

Celery background tasks

Trionyx uses Celery for background tasks, for full documentation go to [Celery 4.1 documentation](#).

8.1 Configuration

Default there is no configuration required if standard RabbitMQ server is installed on same server. Default broker url is: `amqp://guest:guest@localhost:5672//`

8.1.1 Queue's

Default Trionyx configuration has three queue's:

- **cron**: Every tasks started by Celery beat is default put in the cron queue.
- **low_prio**: Is the default Queue every other tasks started by other processes are put in this queue.
- **high_prio**: Queue can be used for putting high priority tasks, default no tasks are put in high_prio queue.

8.1.2 Time limit

Default configuration sets the soft time limit of tasks to 1 hour and hard time limit to 1 hour and 5 minutes. You can catch a soft time limit with the *SoftTimeLimitExceeded*, and with the default configuration you have 5 minutes to clean up a task.

You can change the time limit with the settings `CELERY_TASK_SOFT_TIME_LIMIT` and `CELERY_TASK_TIME_LIMIT`

8.2 Creating background task

Tasks mused by defined in the file `tasks.py` in your Django app. Tasks in the `tasks.py` will by auto detected by Celery.

Example of a task with arguments:

```
from celery import shared_task

@shared_task
def send_email(email):
    # Send email

# You can call this task normally by:
send_email('test@example.com')

# Or you can run this task in the background by:
send_email.delay('test@example.com')
```

Note: If you are using Django signals like `post_save` to start tasks, make sure you use `transaction.on_commit`

8.3 Running task periodically (cron)

You can run a task periodically by defining a schedule in the `cron.py` in you Django app.

```
from celery.schedules import crontab

schedule = {
    'spammer': {
        'task': 'app.test.tasks.send_email',
        'schedule': crontab(minute='*'),
    }
}
```

8.4 Running celery (development)

If you have a working broker installed and configured you can run celery with:

```
celery worker -A celery_app -B -l info
```

8.5 Live setup (systemd)

For live deployment you want to run celery as a daemon, [more info in the Celery documentation](#)

8.5.1 celery.service

`/etc/systemd/system/celery.service`

```
[Unit]
Description=Celery Service
After=network.target
```

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```

[Service]
Type=forking
# Change this to Username and group that Trionyx project is running on.
User=celery
Group=celery

EnvironmentFile=/etc/conf.d/celery

# Change this to root of your Trionyx project
WorkingDirectory=/root/of/trionyx/project

ExecStart=/bin/sh -c '${CELERY_BIN} multi start ${CELERYD_NODES} \
  -A ${CELERY_APP} --pidfile=${CELERYD_PID_FILE} \
  --logfile=${CELERYD_LOG_FILE} --loglevel=${CELERYD_LOG_LEVEL} ${CELERYD_OPTS}'
ExecStop=/bin/sh -c '${CELERY_BIN} multi stopwait ${CELERYD_NODES} \
  --pidfile=${CELERYD_PID_FILE}'
ExecReload=/bin/sh -c '${CELERY_BIN} multi restart ${CELERYD_NODES} \
  -A ${CELERY_APP} --pidfile=${CELERYD_PID_FILE} \
  --logfile=${CELERYD_LOG_FILE} --loglevel=${CELERYD_LOG_LEVEL} ${CELERYD_OPTS}'

[Install]
WantedBy=multi-user.target

```

8.5.2 Configuration file

/etc/conf.d/celery

```

CELERYD_NODES="cron_worker low_prio_worker high_prio_worker"

# Absolute or relative path to the 'celery' command:
CELERY_BIN="/usr/local/bin/celery"

CELERY_APP="celery_app"

# Extra command-line arguments to the worker
CELERYD_OPTS="-Ofair \
-Q:cron_worker      cron      -c:cron_worker      4 \
-Q:low_prio_worker  low_prio  -c:low_prio_worker  8 \
-Q:high_prio_worker high_prio  -c:high_prio_worker 4"

# - %n will be replaced with the first part of the nodename.
# - %I will be replaced with the current child process index
#   and is important when using the prefork pool to avoid race conditions.
CELERYD_PID_FILE="/var/run/celery/%n.pid"
CELERYD_LOG_FILE="/var/log/celery/%n%I.log"
CELERYD_LOG_LEVEL="INFO"

```

Note: Make sure that the PID and LOG file directory is writable for the user that is running Celery.

Widgets are used on the dashboard and are rendered with Vue.js component.

class `trionyx.widgets.BaseWidget`

Base widget to extend for creating custom widgets. Custom widgets are created in *widgets.py* in root of app folder.

Example of random widget:

```
# <app dir>/widgets.py
RandomWidget(BaseWidget):
    code = 'random'
    name = 'Random widget'
    description = 'Shows random string'

    def get_data(self, request, config):
        return utils.random_string(16)
```

```
<!-- template path: widgets/random.html -->
<script type="text/x-template" id="widget-random-template">
    <div :class="widgetClass">
        <div class="box-header with-border">
            <!-- Get title from config, your form fields are also available in_
↳the config -->
            <h3 class="box-title">[[widget.config.title]]</h3>
        </div>
        <!-- /.box-header -->
        <div class="box-body">
            <!-- vue data property will be filled with the get_data results_
↳method --->
            [[data]]
        </div>
    </div>
</script>
```

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```
<script>
  <!-- The component must be called `widget-<code>` -->
  Vue.component('widget-random', {
    mixins: [TxWidgetMixin],
    template: '#widget-random-template',
  });
</script>
```

code = None

Code for widget

permission = None

Permission to use this widget

name = ''

Name for widget is also used as default title

description = ''

Short description on what the widget does

config_form_class = None

Form class used to change the widget. The form cleaned_data is used as the config

default_width = 4

Default width of widget, is based on grid system with max 12 columns

default_height = 20

Default height of widget, each step is 10px

fixed_width = None

Set a fixed width for widget

fixed_height = None

Set a fixed height for widget

is_resizable = None

Is widget resizable

templateTemplate path *widgets/{code}.html* overwrite to set custom path**image**Image path *img/widgets/{code}.jpg* overwrite to set custom path**get_data** (*request: django.http.request.HttpRequest, config: dict*)

Get data for widget, function needs to be overwritten on widget implementation

config_fields

Get the config field names

static is_enabled () → bool

Determine if widget is enabled

classmethod is_visible (*request*) → bool

Check if widget is visible for given request

CHAPTER 10

Deploying

You can deploy your Trionyx project any way that works for your environment. If you are just looking for a simple deployment to dedicated server (or VPS). Trionyx provides a complete Ansible role for setting up and deploying your project to a clean Ubuntu server.

Server setup created by Ansible:

- Nginx (https with Letsencrypt)
- Gunicorn (gevent)
- PostgreSQL with pgbouncer
- RabbitMQ
- Firewall (ufw, fail2ban)
- Auto update with unattended-upgrades

10.1 Creating Ansible playbook

Prerequisites:

- Newly installed Ubuntu 18.04 server
- Domain name that points to that server
- Git repository of your project

Before you begin you need to install Ansible:

```
pip install --user ansible
```

After you have installed Ansible you can create a Trionyx playbook by running:

```
trionyx create_ansible <domain> <repo>
```

Follow the instructions and the end you will have an Ubuntu server running with your Project.

10.1.1 Server maintenance

Security updates are automatically installed with unattended-upgrades. For the normal system update there is an upgrade.yml playbook.

Warning: The upgrade.yml playbook will restart the server if an updated package required a system reboot.

You can run the system upgrade playbook with following command:

```
ansible-playbook upgrade.yml -i production
```

How to write reusable apps

Trionyx support auto registering off reusable apps with the setup entry_points. This means you only have to *pip install <reusable app>* in your Trionyx project and it will be auto loaded into project, no further configuration needed.

11.1 Create reusable app

To create a complete working base structure for your reusable app run:

```
trionyx create_reusable_app <name>
```

You now can create your Trionyx app how you do normally. And when you are ready with your first version you can upload it to PyPi.

12.1 [3.0.0] - 08-05-2021

Compatibility breaking changes: Upgrade to Django 3.2 and reset DB migrations for JSONField

12.1.1 Added

- Add option to make model view/add/change/delete admin only
- Make CELERY_BROKER_URL set by env
- Add vuex.js
- Add option to hide footer
- Add settings to always filter list queryset

12.1.2 Changed

- Panel component title attribute now accepts component
- Add helper functions to get/set local data
- Add helper function get_current_user and make get_current_user available in tasks if a user started the task
- Celery hooks are auto loaded from settings
- Remove /media/ from xsendfile
- Search by field label name
- Inline show non field errors
- Allow model_url to have an empty viewname

12.1.3 Fixed

- AppSettings crashes on migrate because variable table does not yet exists
- Fix ProgrammingError: relation “django_cache” does not exist
- Fix verbose name not saved
- Graph widget only first 30 records instead of lasts 30 records
- Button dialog custom url error

12.2 [2.2.0] - 03-09-2020

Compatibility breaking changes: Remove -custom for code url path

12.2.1 Added

- Allow apps to add global css/js files
- Add Field component
- Add option to hide table header
- Add options to disable auditlog
- App settings can be overridden with system variables
- Add config to disable viewing of model
- Add option should_render to components
- New projects will print emails to console in development
- Add options to set custom create/edit permission on form
- Add permission to dashboard widgets and widget data
- Add celery command for development with auto reload on file change
- Add ImageField renderer
- Add foreign field renderer that renders object with *a* tag
- Add Json field renderer
- Add action column to list view with actions view,edit and delete (remove row click)
- Add graph dashboard widget + improve widget options

12.2.2 Changed

- Make raised Exceptions more explicit
- Update models to use settings.AUTH_USER_MODEL and in code to get_user_model()
- Remove -custom for code url path
- Allow for multiple dialog reload options
- Change select_related to prefetch_related to prevent join errors on not null fields

- Do model clean on objects for MassUpdate
- Several small Improvement
- Add no_link options to renderers with an *a* tag, for list view its won't render value in *a* tag
- Close list fields popover on outside click
- Change many to many field renderer to use *a* tags

12.2.3 Fixed

- Form Datetimepicker format is not set in __init__
- Summernote popovers remain on page if dialog was closed

12.3 [2.1.3] - 08-04-2020

12.3.1 Added

- Add support for __format__ for LazyFieldRenderer (used by model verbose_name)
- Add support for CTRL+Click and scroll wheel click on list view item to open new tab

12.3.2 Changed

- Remove Google fonts

12.3.3 Fixed

- #51 Filters datepicker won't work if previous selected field was a select
- Mass update crashes on collecting fields from forms when custom __init__ is used

12.4 [2.1.2] - 04-04-2020

12.4.1 Fixed

- Greater then filter not working

12.5 [2.1.1] - 02-04-2020

12.5.1 Added

- Add login redirect to previous visited page

12.5.2 Fixed

- Fix multiple enumerations are added to list view on slow load
- Fix drag column order on list view out order after drag event
- get_current_request not working in streaming response

12.6 [2.1.0] - 12-02-2020

12.6.1 Added

- Add create_reusable_app command
- Add ProgressBar component
- Add Unordered and Ordered list components
- Add LineChart, BarChart, PieChart and DoughnutChart component
- Add options to register data function for a widget
- Add support for file upload in dialog
- Add full/extra-large size options to dialog
- Add link target option to header buttons
- Add Date value renderer
- Add current url to dialog object
- Add Link component
- Add component option to lock object
- Add footer with Trionyx and app version
- Add changelog dialog with auto show on version change
- Add command to generate favicon
- Add Ansible upgrade playbook for quickstart
- Add user API token reset link
- Add JS helper runOnReady function
- Add basic-auth authentication view
- Add ajax form choices and multiple choices field

12.6.2 Changed

- Update translations
- Add traceback stack to DB logs with no Exception
- Set max_page of 1000 for API and default page size to 25
- Moved depend JS to static files
- Change logging to file rotation for quickstart project

- Improve Table component styling options

12.6.3 Fixed

- Widget config popup is blank
- Fix form layout Depend not working on create/update view
- Fix widget config_form_class is not set
- Fix list_value_renderer crashes on non string list items
- Fix list load loop on fast reloads (eq spam next button)
- Fix Makefile translate commands
- Fix CreateDialog permission check wasn't working
- Fix model alias tabs not working
- Fix Quickstart reusable app
- Fix log messages is not formatted in db logger
- Fix BaseTask can be executed to fast
- Fix prevent large header titles pushing buttons and content away

12.7 [2.0.2] - 24-12-2019

12.7.1 Fixed

- Fix inlineforms not working in popup
- Widget config dialog wasn't shown

12.8 [2.0.1] - 19-12-2019

12.8.1 Added

- Add helper function for setting the Watson search language

12.8.2 Changed

- Small improvements to prevent double SQL calls
- #39 Make python version configurable for Makefile

12.8.3 Fixed

- Ansible role name is not found
- JsonField does not work in combination with jsonfield module

12.9 [2.0.0] - 11-12-2019

Compatibility breaking changes: drop support for python 3.5

12.9.1 Added

- Add generic model sidebar
- Add Summernote wysiwyg editor
- Add more tests and MyPy
- Add getting started guide to docs and improve README
- Add more bootstrap components
- Add frontend layout update function
- Add system variables
- Add helper class for app settings
- Add support for inline forms queryset
- Add company information to settings
- Add price template filter
- Add ability for forms to set page title and submit label
- Add options to display create/change/delete buttons
- Add signals for permissions

12.9.2 Changed

- Drop support for python 3.5
- Improve api serializer registration
- Improve list view column sizes
- Move from virtualenv to venv
- Make inline formset dynamic
- Make delete button available on edit page
- Make header buttons generic and show them on list and edit page
- Header buttons can be shown based on tab view

12.9.3 Fixed

- Cant go to tab if code is same as code in jstree
- Several small fixes and changes

12.10 [1.0.5] - 31-10-2019

12.10.1 Fixed

- Fixed model overwrite configs/forms/menu

12.11 [1.0.4] - 31-10-2019

12.11.1 Changed

- Improved new project creation

12.11.2 Fixed

- Filter related choices are not shown

12.12 [1.0.3] - 30-10-2019

12.12.1 Fixed

- Fixed to early reverse lookup
- Fixed not all quickstart files where included

12.13 [1.0.2] - 30-10-2019

12.13.1 Changed

- Dialog form initial also uses GET params
- model_url accept GET params as dict
- Improve Button component
- ComponentFieldsMixin fields can now render a Component
- Add option to Component to force update object
- Base Component can be used as an holder for Components to be rendered
- Add debug comments to Component output

12.13.2 Fixed

- Delete dialog does not return *success* boolean
- Fixed html component not rendering html and tag not closed

12.14 [1.0.1] - 29-10-2019

12.14.1 Fixed

- Fixed verbose name has HTML

12.15 [1.0.0] - 29-10-2019

Compatibility breaking changes: Migrations are cleared

12.15.1 Added

- Add get_current_request to utils
- Add DB logger
- Add options to disable create/update/delete for model
- Add debug logging for form errors
- Add audit log for models
- Add user last_online field
- Add support for inline formsets
- Add rest API support
- Add option to add extra buttons to header
- Add search to list fields select popover
- Add Dashboard
- Add Audtilog dashboard widget
- Add model field summary widget
- Add auto import Trionyx apps with pip entries
- Add data choices lists for countries/currencies/timezones
- Add language support + add Dutch translations
- Add user timezone support
- Add CacheLock contextmanager
- Add locale_override and send_email to user
- Add mass select selector to list view
- Add mass delete action
- Add Load js/css from forms and components
- Add view and edit permissions with jstree
- Add mass update action
- Add BaseTask for tracking background task progress
- Add support for related fields in list and auto add related to queryset

- Add layout component find/add/delete
- Add model overwrites support that are set with settings
- Add renderers for email/url/bool/list

12.15.2 Changed

- Set fallback for user profile name and avatar
- Improve header visibility
- Make filters separate vuejs component + function to filter queryset
- Improve theme colors and make theme square
- Update AdminLTE+plugins and Vue.js and in DEBUG use development vuejs
- Refactor inline forms + support single inline form
- Auditlog values are rendered with renderer
- Changed pagination UX
- Show filter label instead of field name

12.15.3 Fixed

- Project create settings BASE_DIR was incorrect
- Menu item with empty filtered childs is shown
- Make verbose_name field not required
- Global search is activated on CTRL commands
- Auditlog delete record has no name
- Created by was not set
- Auditlog gives false positives for Decimal fields
- Render date: localtime() cannot be applied to a naive datetime
- Fix model list dragging + fix drag and sort align
- Fixed None value is rendered as the string None

12.16 [0.2.0] - 04-06-2019

Compatibility breaking changes

12.16.1 Added

- Form register and refactor default forms to use this
- Add custom form urls + shortcut model_url function
- Add layout register + layout views
- Add model verbose_name field + change choices to use verbose_name query

- Add permission checks and hide menu/buttons with no permission

12.16.2 Changed

- Render fields for verbose_name and search title/description
- Move all dependencies handling to setup.py
- Upgrade to Django 2.2 and update other dependencies
- refactor views/core from Django app to Trionyx package
- Rename navigation to menu
- Move navigtaion.tabs to views.tabs
- Quickstart project settings layout + add environment.json

12.16.3 Fixed

- Cant search in fitler select field
- Datetimepicker not working for time
- Travis build error
- Button component

12.17 [0.1.1] - 30-05-2019

12.17.1 Fixed

- Search for not indexed models
- Lint errors

12.18 [0.1.0] - 30-05-2019

12.18.1 Added

- Global search
- Add filters to model list page
- Set default form layouts for fields

12.18.2 Changed

- Search for not indexed models

12.18.3 Fixed

- Make datepicker work with locale input format
- On menu hover resize header
- Keep menu state after page refresh
- Search for not indexed models

CHAPTER 13

Indices and tables

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- `search`

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