
radioco Documentation

Release 3.2.1

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CHAPTER 1

Overview

RadioCo is a broadcasting radio recording scheduling system. RadioCo has been intended to provide a solution for a wide range of broadcast projects, from community to public and commercial stations.

Here are a few of the key features:

- designed to work with any web browser
- drag and drop scheduling calendar interface
- live shows can be recorded and published automatically
- complete authentication system (user accounts, groups, permissions)
- ...and much more

Note: This software is not for live streaming

CHAPTER 2

Release Notes

This document refers to version 3.2.1

Installation Guide

The pages in this section of the documentation are designed to help you get started quickly and show how easy it is to work with RadioCo

The guides follow a logical progression and build on each other, so it's recommended to work through them in the order presented here.

Installing web application

To allow RadioCo to generate correct dates it's necessary to set the timezone variable:

1. Find your timezone in [this list](#)
2. Go to the config folder (radioco/configs/base) and create if not exists a local_settings.py in the same directory than settings.py
3. Add to the local settings the variable timezone, for example: `TIME_ZONE = "Europe/Madrid"`

Installing locally

This tutorial is written for Python 2.7 and Ubuntu 12.04 or later.

Ubuntu

The easiest way of installing the app is using [Docker engine](#), follow the [installation steps](#) to install Docker.

Open a terminal and introduce the following commands:

```
sudo apt-get install git-core python-dev python-pip
```

Next, download the project and cd into it:

```
git clone https://github.com/iago1460/django-radio
cd django-radio
```

Install the python invoke library:

```
pip install invoke==0.14.0
```

Execute the next command to deploy the app in docker, this step take some time:

```
inv quickstart
```

Warning: If you have faced the error “ValueError: unknown locale: UTF-8” on MacOS X, execute:
export LC_ALL=en_US.UTF-8 export LANG=en_US.UTF-8

Testing

Let’s verify your installation

Now that the server’s running, visit <http://127.0.0.1:8000/>

Warning: Don’t use this server in anything resembling a production environment.

Using RadioCo on production

The Internet is a hostile environment. Before deploying this project, you should take some time to review your settings, with security, performance, and operations in mind. Keep in mind [this critical settings](#).

Locally

RadioCo provides a staging environment, safer than the previous one but still insecure, **use at your own risk**.

```
inv docker.setup -e staging
```

Now that the server’s running, visit <http://127.0.0.1/>

To create a superuser you still can use management commands:

```
inv docker.manage -e staging -c "createsuperuser"
```

Installing recorder program

This tutorial is written for Python 2.7 and Ubuntu 12.04 or later.

Installing on Ubuntu

We'll get started by setting up our environment.

```
sudo apt-get install python-dev python-pip python-virtualenv git-core alsa-utils  
↳vorbis-tools
```

Next, download the project and create the virtual environment:

```
git clone https://github.com/iago1460/django-radio-recorder.git  
cd django-radio-recorder
```

Create and activate a virtual env:

```
virtualenv venv  
source venv/bin/activate
```

Install the requirements:

```
pip install -r requirements.txt
```

Using your favorite text editor, configure the `settings.ini` file

Launch the program

```
python main.py
```

Communication Setup

In your Admin interface go to **Podcast Configuration**, copy the **Recorder token** and put it into the Recorder Program settings:

```
token:8fdde6d703c05773084ea83e5ec2da62637666a0 #for example
```

Modify the **url** in your Recorder Program settings:

```
url:http://yourdomain:80/api/1/
```

Customize

Technical reference material.

RadioCo has a number of settings to configure its behaviour, please read this section carefully.

Application Setup

RadioCo can be adapted to your needs, you have three ways to do it. Editing the Global Settings section in the administration page using your browser or manually overriding the `settings.py` and overriding templates.

Global settings

Go to the admin section on your browser and edit the information available.

Global Configuration

In this section you can add information related to your site apart of the google analytics id.

Calendar Configuration

Settings related to the calendar, things like the first day of the week

Podcast Configuration

Settings related with the recorder, change here recording delays and get the Recorder token necessary for the recorder programme to work

Site

Change `example.com` with the fully qualified domain name associated with the website. Note that some RSS feed attributes will be incorrect if this value is not properly set up.

Templates

There is a empty folder called templates inside the radioco folder. You should override templates here, make sure to keep the relative path.

For example, to override the episode detail page copy the `episode_detail.html` file from `radioco/apps/programmes/templates/programmes/episode_detail.html` to `radioco/templates/programmes/episode_detail.html`

Settings.py

These settings are available in `settings.py`. Your settings should be in a `local_settings.py` file in the same directory as `settings.py`.

Warning: Your changes on settings should be in `local_settings.py` to avoid conflicts when update, create that file if it's necessary. Be aware that this file is excluded from Git.

USERNAME_RADIOCO_RECORDER

This specifies who is the user of the recorder program:

```
USERNAME_RADIOCO_RECORDER = 'RadioCo_Recorder'
```

Note: It's a good idea change this value for security reasons.

LANGUAGE_CODE

A string representing the language code for this installation. It provides a fallback language in case the user's preferred language can't be determined or is not supported by the website. [More info](#):

```
LANGUAGE_CODE = 'en'
```

PROGRAMME_LANGUAGES

New in version 1.1

Default: A tuple of the following three languages.

This specifies which languages are available for language selection in your programmes:

```
gettext_noop = lambda s: s

PROGRAMME_LANGUAGES = (
    ('es', gettext_noop('Spanish')),
    ('en', gettext_noop('English')),
    ('gl', gettext_noop('Galician')),
)
```

You can see the current list of translated languages by looking in `django/conf/global_settings.py` (or view the [online source](#)).

Disqus

New in version 2.0

Default: Disabled by default.

Add comments to your site with Disqus. [Create your account and get your API key.](#):

```
DISQUS_ENABLE = True
DISQUS_API_KEY = 'YOUR_API_KEY'
DISQUS_WEBSITE_SHORTNAME = 'YOUR_SHORTNAME'
```

Recorder Program Setup

The settings are available in your `settings.ini`.

API

Api documentation.

Browsable API

Experimental in version 3.0

RadioCo has a Web browsable API, go to `http://127.0.0.1:8000/api/2/` in your browser to explore it.

Optionally these endpoints support filtering and ordering in the majority of the exposed fields.

Programmes

Programmes can be filter using after and before parameters as well as Transmissions.

Example query to get all available programmes on New Year's Eve order by name:

```
http://127.0.0.1:8000/api/2/programmes?after=2016-12-31&before=2016-12-31&
→ordering=name
```

Transmissions

Transmissions are always ordered by date, the after and before parameters are required.

Example query:

```
http://127.0.0.1:8000/api/2/transmissions?after=2016-12-19&before=2016-12-26
```

Also is possible to request the dates in a specific timezone:

```
http://127.0.0.1:8000/api/2/transmissions?timezone=Europe%2FMadrid&after=2016-12-19&
→before=2016-12-26
```

Finally, there is a endpoint to get the current transmission:

```
http://127.0.0.1:8000/api/2/transmissions/now
```

Radiocom API

New in version 3.1

Radiocom is an Android application for Community Media Stations. RadioCo has the **Radiocom API** under the following urls:

```
http://127.0.0.1:8000/api/2/radiocom/programmes
http://127.0.0.1:8000/api/2/radiocom/radiostation
http://127.0.0.1:8000/api/2/radiocom/transmissions
http://127.0.0.1:8000/api/2/radiocom/transmissions/now
```

Development & community

RadioCo is an open-source project, and relies on its community of users to keep getting better.

You don't need to be an expert developer to make a valuable contribution - all you need is a little knowledge of the system, and a willingness to follow the contribution guidelines.

Remember that contributions to the documentation are highly prized, and key to the success of the project. Any time and effort you are willing to contribute is greatly appreciated!

Branch policy

- **master**: this is the current stable release, the version released on PyPI.
- **develop**: this branch always reflects a state with the latest delivered development changes for the next release.
- **feature branches**: these are used to develop new features.

Contributing Translation

For translators we have a [Transifex account](#) where you can translate the .po files and don't need to install git to be able to contribute. All changes there will be automatically sent to the project.

Contributing Documentation

Perhaps considered “boring” by hard-core coders, documentation is sometimes even more important than code! This is what brings fresh blood to a project, and serves as a reference for old timers. On top of this, documentation is the one area where less technical people can help most - you just need to write semi-decent English. People need to understand you. We don't care about style or correctness.

Documentation should be:

- written using valid [Sphinx/restructuredText](#) syntax (see below for specifics) and the file extension should be `.rst`
- written in English (we have standardised on British spellings)
- accessible - you should assume the reader to be moderately familiar with Python and Django, but not anything else. Link to documentation of libraries you use, for example, even if they are “obvious” to you

Merging documentation is pretty fast and painless.

Except for the tiniest of change, we recommend that you test them before submitting.

Documentation markup

Sections

We use Python documentation conventions for section marking:

- # with overline, for parts
- * with overline, for chapters
- =, for sections
- -, for subsections
- ^, for subsubsections
- ", for paragraphs

Inline markup

- **use backticks - `settings.py` - for:**
 - literals

- filenames
- names of fields and other items in the Admin interface:
- **use emphasis - *Home* around:**
 - the names of available options in the Admin
 - values in or of fields

References

Use absolute links to other documentation pages - `:doc:`/how_to/toolbar`` - rather than relative links - `:doc:`../toolbar``. This makes it easier to run search-and-replaces when items are moved in the structure.

django-radio

manage module

radioco package

Subpackages

radioco.apps package

Subpackages

radioco.apps.api package

Subpackages

radioco.apps.api.tests package

Submodules

radioco.apps.api.tests.test_api module

```
class radioco.apps.api.tests.test_api.TestApi
    Bases: radioco.apps.radioco.test_utils.TestDataMixin
    test_api()

class radioco.apps.api.tests.test_api.TestSerializers (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.TestCase
    test_episode()
    test_episode_programme()
    test_programme()
    test_programme_photo_url()
```

```
test_schedule()
test_transmission()
```

radioco.apps.api.tests.test_fullcalendar module

```
class radioco.apps.api.tests.test_fullcalendar.TestFullCalendarApi (methodName='runTest')
  Bases: radioco.apps.radioco.test_utils.TestDataMixin, rest_framework.test.APITestCase

  setUp()

  test_move_schedule (*args, **kwargs)
  test_move_schedule_in_tz (*args, **kwargs)
  test_move_schedule_with_schedules (*args, **kwargs)
  test_move_schedule_with_schedules_in_tz (*args, **kwargs)
  test_schedules_post (*args, **kwargs)
  test_schedules_post_in_tz (*args, **kwargs)
```

radioco.apps.api.tests.test_programmes module

```
class radioco.apps.api.tests.test_programmes.TestNotAllowedMethodsProgrammesAPI (methodName='runTest')
  Bases: radioco.apps.radioco.test_utils.TestDataMixin, rest_framework.test.APITestCase

  test_episodes_delete()
  test_episodes_post()
  test_episodes_put()
  test_programmes_delete()
  test_programmes_post()
  test_programmes_put()

class radioco.apps.api.tests.test_programmes.TestProgrammesAPI (methodName='runTest')
  Bases: radioco.apps.radioco.test_utils.TestDataMixin, rest_framework.test.APITestCase

  setUp()

  test_episodes_get_all()
  test_episodes_get_by_programme()
  test_programmes_after()
  test_programmes_before()
  test_programmes_between()
  test_programmes_get_all()
```

radioco.apps.api.tests.test_radiocom_api module

```
class radioco.apps.api.tests.test_radiocom_api.TestProgramme (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, rest_framework.test.
    APITestCase

    setUp ()

    test_programme_in_list ()

class radioco.apps.api.tests.test_radiocom_api.TestTransmission (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, rest_framework.test.
    APITestCase

    test_transmission_now (*args, **kwargs)

radioco.apps.api.tests.test_radiocom_api.mock_now ()
```

radioco.apps.api.tests.test_recorder module

```
class radioco.apps.api.tests.test_recorder.PodcastMock

class radioco.apps.api.tests.test_recorder.TestProgrammesAPI (methodName='runTest')
    Bases: rest_framework.test.APITestCase

    classmethod setUpTestData ()

    test_recording_schedules (*args, **kwargs)

    test_submit_recorder (*args, **kwargs)
```

radioco.apps.api.tests.test_schedules module

```
class radioco.apps.api.tests.test_schedules.TestRestrictedMethodsScheduleAPI (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, rest_framework.test.
    APITestCase

    test_schedules_delete ()

    test_schedules_post ()

    test_schedules_put ()

    test_transmissions_delete ()

    test_transmissions_post ()

    test_transmissions_put ()

class radioco.apps.api.tests.test_schedules.TestSchedulesAPI (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, rest_framework.test.
    APITestCase

    test_schedules_get_all ()

    test_schedules_get_by_calendar ()

    test_schedules_get_by_nonexisting_calendar ()

    test_schedules_get_by_nonexisting_programme ()

    test_schedules_get_by_nonexisting_type ()
```

```

    test_schedules_get_by_programme ()
    test_schedules_get_by_type ()
class radioco.apps.api.tests.test_schedules.TestTransmissionAPI (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, rest_framework.test.
    APITestCase
    test_incorrect_transmission_queries ()
    test_transmission_before (*args, **kwargs)
    test_transmission_list_filter_non_active_calendar (*args, **kwargs)
    test_transmission_now (*args, **kwargs)
    test_transmission_same_day ()
    test_transmissions_between (*args, **kwargs)
    test_transmissions_between_requesting_tz ()
    test_transmissions_filter_calendar_nonexistend ()
radioco.apps.api.tests.test_schedules.mock_now ()

```

Module contents

Submodules

radioco.apps.api.recorder_views module

```

radioco.apps.api.recorder_views.check_recorder_program (user)
radioco.apps.api.recorder_views.recording_schedules (*args, **kwargs)
radioco.apps.api.recorder_views.submit_recorder (*args, **kwargs)

```

radioco.apps.api.serializers module

```

class radioco.apps.api.serializers.AbsoluteURLField (method_name=None, source=None,
                                                    reverse_url=None, **kwargs)
    Bases: rest_framework.fields.URLField
    A field similar to URLField but returning always the absolute url
    For example:
    class ExampleSerializer(self): episode_url = AbsoluteURLField() photo_url = AbsoluteURL-
        Field(source='photo.url', read_only=True) rss_url = AbsoluteURLField(source='slug', re-
        verse_url='programmes:rss')
    to_representation (value)
class radioco.apps.api.serializers.DateTimeFieldTz (format=<class
                                                    rest_framework.fields.empty>,
                                                    input_formats=None,
                                                    fault_timezone=None,
                                                    **kwargs)
    Bases: rest_framework.fields.DateTimeField

```

Field to display the datetime in the current timezone

to_representation (*date*)

```
class radioco.apps.api.serializers.EpisodeSerializer (instance=None, data=<class
rest_framework.fields.empty>,
**kwargs)
```

Bases: rest_framework.serializers.ModelSerializer

class Meta

fields = ('title', 'programme', 'summary', 'issue_date', 'season', 'number_in_season')

model

alias of Episode

```
class radioco.apps.api.serializers.ProgrammeSerializer (instance=None, data=<class
rest_framework.fields.empty>,
**kwargs)
```

Bases: rest_framework.serializers.ModelSerializer

class Meta

fields = ('id', 'slug', 'name', 'synopsis', 'runtime', 'photo_url', 'rss_url', 'language', 'category')

model

alias of Programme

```
class radioco.apps.api.serializers.RadiocomConfigurationSerializer (instance=None,
data=<class
rest_framework.fields.empty>,
**kwargs)
```

Bases: rest_framework.serializers.ModelSerializer

class Meta

fields = ('station_name', 'icon_url', 'big_icon_url', 'station_photos', 'history', 'latitude', 'longitude', 'news_rss', '')

model

alias of RadiocomConfiguration

RadiocomConfigurationSerializer.**get_facebook_url** (*obj*)

RadiocomConfigurationSerializer.**get_station_photos** (*obj*)

RadiocomConfigurationSerializer.**get_twitter_url** (*obj*)

```
class radioco.apps.api.serializers.RadiocomProgrammeSerializer (instance=None,
data=<class
rest_framework.fields.empty>,
**kwargs)
```

Bases: rest_framework.serializers.ModelSerializer

class Meta

fields = ('id', 'name', 'description', 'logo_url', 'rss_url')

model

alias of Programme

```
class radioco.apps.api.serializers.RadiocomTransmissionSerializer (instance=None,
                                                                    data=<class
                                                                    rest_framework.fields.empty>,
                                                                    **kwargs)
```

```
    Bases: rest_framework.serializers.Serializer
```

```
class radioco.apps.api.serializers.ScheduleSerializer (instance=None,    data=<class
                                                                    rest_framework.fields.empty>,
                                                                    **kwargs)
```

```
    Bases: rest_framework.serializers.ModelSerializer
```

```
class Meta
```

```
    fields = ('id', 'programme', 'calendar', 'start', 'runtime', 'title', 'type', 'source')
```

```
    model
```

```
        alias of Schedule
```

```
    ScheduleSerializer.get_title (schedule)
```

```
    ScheduleSerializer.validate (attrs)
```

```
class radioco.apps.api.serializers.TransmissionSerializer (instance=None,
                                                            data=<class
                                                            rest_framework.fields.empty>,
                                                            **kwargs)
```

```
    Bases: rest_framework.serializers.Serializer
```

```
class radioco.apps.api.serializers.TransmissionSerializerLight (instance=None,
                                                                data=<class
                                                                rest_framework.fields.empty>,
                                                                **kwargs)
```

```
    Bases: rest_framework.serializers.Serializer
```

```
    validate (attrs)
```

radioco.apps.api.urls module

radioco.apps.api.views module

```
class radioco.apps.api.views.EpisodeFilter (*args, **kwargs)
```

```
    Bases: rest_framework.filters.FilterSet
```

```
class Meta
```

```
    fields = ('programme',)
```

```
    model
```

```
        alias of Episode
```

```
    EpisodeFilter.base_filters = OrderedDict([(u'programme', <django_filters.filters.CharFilter object>)])
```

```
    EpisodeFilter.declared_filters = OrderedDict([(u'programme', <django_filters.filters.CharFilter object>)])
```

```
class radioco.apps.api.views.EpisodeViewSet (**kwargs)
```

```
    Bases: rest_framework.viewsets.ReadOnlyModelViewSet
```

```
    filter_backends = (<class 'rest_framework.filters.DjangoFilterBackend'>, <class 'rest_framework.filters.OrderingFI
```

```
filter_class
    alias of EpisodeFilter

queryset

serializer_class
    alias of EpisodeSerializer

suffix = None

class radioco.apps.api.views.ProgrammeFilter (*args, **kwargs)
    Bases: rest_framework.filters.FilterSet

class Meta

    fields = ('name', 'category')

    model
        alias of Programme

    ProgrammeFilter.base_filters = OrderedDict([(u'name', <django_filters.filters.CharFilter object>), (u'category', <django_filters.filters.CharFilter object>)])

    ProgrammeFilter.declared_filters = OrderedDict()

class radioco.apps.api.views.ProgrammeFilterForm (data=None, files=None,
        auto_id=u'id_%s', prefix=None,
        initial=None, error_class=<class
        'django.forms.utils.ErrorList'>,
        label_suffix=None,
        empty_permitted=False)

    Bases: django.forms.forms.Form

base_fields = OrderedDict([(('after', <django.forms.fields.DateField object>), ('before', <django.forms.fields.DateField object>))])

clean()

declared_fields = OrderedDict([(('after', <django.forms.fields.DateField object>), ('before', <django.forms.fields.DateField object>))])

media

class radioco.apps.api.views.ProgrammeViewSet (**kwargs)
    Bases: rest_framework.viewsets.ModelViewSet

filter_backends = (<class 'rest_framework.filters.DjangoFilterBackend'>, <class 'rest_framework.filters.OrderingFilter'>)

filter_class
    alias of ProgrammeFilter

list (request, *args, **kwargs)

lookup_field = 'slug'

permission_classes = (<class 'rest_framework.permissions.DjangoModelPermissionsOrAnonReadOnly'>),

queryset

serializer_class
    alias of ProgrammeSerializer

suffix = None

class radioco.apps.api.views.RadiocomProgrammeViewSet (**kwargs)
    Bases: radioco.apps.api.views.ProgrammeViewSet

serializer_class
    alias of RadiocomProgrammeSerializer
```

```

suffix = None
class radioco.apps.api.views.RadiocomStation (**kwargs)
    Bases: rest_framework.viewsets.ReadOnlyModelViewSet

    list (request, *args, **kwargs)

    serializer_class
        alias of RadiocomConfigurationSerializer

suffix = None
class radioco.apps.api.views.RadiocomTransmissionViewSet (**kwargs)
    Bases: radioco.apps.api.views.TransmissionViewSet

    serializer_class
        alias of RadiocomTransmissionSerializer

suffix = None
class radioco.apps.api.views.ScheduleFilter (*args, **kwargs)
    Bases: rest_framework.filters.FilterSet

    class Meta

        fields = ('programme', 'calendar', 'type')

        model
            alias of Schedule

ScheduleFilter.base_filters = OrderedDict([(u'programme', <django_filters.filters.CharFilter object>), (u'calendar', <django_filters.filters.CharFilter object>)])
ScheduleFilter.declared_filters = OrderedDict([('programme', <django_filters.filters.CharFilter object>)])

class radioco.apps.api.views.ScheduleViewSet (**kwargs)
    Bases: rest_framework.viewsets.ModelViewSet

    filter_backends = (<class 'rest_framework.filters.DjangoFilterBackend'>, <class 'rest_framework.filters.OrderingFilter'>)

    filter_class
        alias of ScheduleFilter

    permission_classes = (<class 'rest_framework.permissions.DjangoModelPermissionsOrAnonReadOnly'>,)

    queryset

    serializer_class
        alias of ScheduleSerializer

suffix = None
class radioco.apps.api.views.TimezoneForm (data=None, files=None, auto_id=u'id_%s', prefix=None, initial=None, error_class=<class 'django.forms.utils.ErrorList'>, label_suffix=None, empty_permitted=False)

    Bases: django.forms.forms.Form

    base_fields = OrderedDict([('timezone', <django.forms.fields.ChoiceField object>)])

    clean_timezone ()

    declared_fields = OrderedDict([('timezone', <django.forms.fields.ChoiceField object>)])

    media

    x = 'Zulu'

```

```
class radioco.apps.api.views.TransmissionForm (data=None, files=None,
                                              auto_id=u'id_%s', prefix=None,
                                              initial=None, error_class=<class
                                              'django.forms.utils.ErrorList'>, la-
                                              bel_suffix=None, empty_permitted=False)

Bases: radioco.apps.api.views.TimezoneForm

base_fields = OrderedDict([('timezone', <django.forms.fields.ChoiceField object>), ('after', <django.forms.fields.DateField object>)])

clean ()

declared_fields = OrderedDict([('timezone', <django.forms.fields.ChoiceField object>), ('after', <django.forms.fields.DateField object>)])

media

class radioco.apps.api.views.TransmissionOperationViewSet (**kwargs)
Bases: radioco.apps.api.viewsets.UpdateOnlyModelViewSet

perform_update (serializer)

permission_classes = (<class 'rest_framework.permissions.DjangoModelPermissionsOrAnonReadOnly'>,)

queryset

serializer_class
    alias of TransmissionSerializerLight

suffix = None

update (request, *args, **kwargs)

class radioco.apps.api.views.TransmissionViewSet (**kwargs)
Bases: rest_framework.viewsets.ReadOnlyModelViewSet

filter_backends = (<class 'rest_framework.filters.DjangoFilterBackend'>,)

filter_class
    alias of ScheduleFilter

list (request, *args, **kwargs)

now (request)

queryset

serializer_class
    alias of TransmissionSerializer

suffix = None
```

radioco.apps.api.viewsets module

```
class radioco.apps.api.viewsets.UpdateOnlyModelViewSet (**kwargs)
Bases: rest_framework.mixins.UpdateModelMixin, rest_framework.viewsets.GenericViewSet

A viewset that provides a update action.
```

Module contents

radioco.apps.global_settings package

Subpackages

`radioco.apps.global_settings.migrations` package

Submodules

`radioco.apps.global_settings.migrations.0001_initial` module

```
class radioco.apps.global_settings.migrations.0001_initial.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = []
    operations = [<CreateModel fields=[(u'id', <django.db.models.fields.AutoField>), (u'scroll_time', <django.db.models.f
```

`radioco.apps.global_settings.migrations.0002_remove_calendarconfiguration_display_next_weeks` module

```
class radioco.apps.global_settings.migrations.0002_remove_calendarconfiguration_display_next_
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'global_settings', u'0001_initial')]
    operations = [<RemoveField name=u'display_next_weeks', model_name=u'calendarconfiguration'>]
```

`radioco.apps.global_settings.migrations.0003_siteconfiguration_footer` module

```
class radioco.apps.global_settings.migrations.0003_siteconfiguration_footer.Migration(name,
                                                                                       app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'global_settings', u'0002_remove_calendarconfiguration_display_next_weeks')]
    operations = [<AddField field=<django.db.models.fields.TextField>, preserve_default=True, name=u'footer', model_n
```

`radioco.apps.global_settings.migrations.0004_auto_20150606_1335` module

```
class radioco.apps.global_settings.migrations.0004_auto_20150606_1335.Migration(name,
                                                                                   app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'global_settings', u'0003_siteconfiguration_footer')]
    operations = [<AddField field=<django.db.models.fields.TextField>, preserve_default=True, name=u'address', model_
```

`radioco.apps.global_settings.migrations.0005_auto_20150606_1415` module

```
class radioco.apps.global_settings.migrations.0005_auto_20150606_1415.Migration(name,
                                                                                   app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'global_settings', u'0004_auto_20150606_1335')]
```

```
operations = [<RenameField new_name=u'about_footer', model_name=u'siteconfiguration', old_name=u'footer'>, <A
```

radioco.apps.global_settings.migrations.0006_auto_20160116_1509 module

```
class radioco.apps.global_settings.migrations.0006_auto_20160116_1509.Migration (name, app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'global_settings', u'0005_auto_20150606_1415')]
    operations = [<AlterField field=<django.db.models.fields.CharField>, name=u'google_analytics_id', model_name=u'si
```

radioco.apps.global_settings.migrations.0007__v3_0__calendarconfiguration_tweaks module

```
class radioco.apps.global_settings.migrations.0007__v3_0__calendarconfiguration_tweaks.Migration
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'global_settings', u'0006_auto_20160116_1509'), (u'radioco', u'0001__v3_0__mysql_timezone')]
    operations = [<RemoveField name=u'scroll_time', model_name=u'calendarconfiguration'>, <AddField field=<django
```

radioco.apps.global_settings.migrations.0008__v3_0__radiocomconfiguration module

```
class radioco.apps.global_settings.migrations.0008__v3_0__radiocomconfiguration.Migration (name, app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'global_settings', u'0007__v3_0__calendarconfiguration_tweaks')]
    operations = [<CreateModel fields=[(u'id', <django.db.models.fields.AutoField>), (u'station_name', <django.db.model
```

Module contents

radioco.apps.global_settings.templatetags package

Submodules

radioco.apps.global_settings.templatetags.global_settings_extras module

```
radioco.apps.global_settings.templatetags.global_settings_extras.get_global_model (model_path)
```

Module contents

Submodules

radioco.apps.global_settings.admin module

```
class radioco.apps.global_settings.admin.PodcastConfigurationAdmin (model, admin_site)
    Bases: radioco.apps.global_settings.admin.SingletonModelAdmin
```

media

readonly_fields = ['recorder_token']

class radioco.apps.global_settings.admin.**SingletonModelAdmin** (*model, admin_site*)

Bases: django.contrib.admin.options.ModelAdmin

change_form_template = 'global_settings/admin_change_form.html'

change_view (*request, object_id, form_url='', extra_context=None*)

get_urls ()

has_add_permission (*request*)

has_delete_permission (*request, obj=None*)

media

object_history_template = 'global_settings/admin_object_history.html'

response_change (*request, obj*)

radioco.apps.global_settings.models module

class radioco.apps.global_settings.models.**CalendarConfiguration** (*id, slot_duration, first_day, min_time, max_time*)

Bases: *radioco.apps.global_settings.models.SingletonModel*

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception CalendarConfiguration.MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

CalendarConfiguration.get_first_day_display (**moreargs, **morekwargs*)

CalendarConfiguration.objects = <**radioco.apps.global_settings.models.SingletonModelManager object**>

class radioco.apps.global_settings.models.**PodcastConfiguration** (*id, url_source, start_delay, end_delay, next_events*)

Bases: *radioco.apps.global_settings.models.SingletonModel*

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception PodcastConfiguration.MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

PodcastConfiguration.objects = <**radioco.apps.global_settings.models.SingletonModelManager object**>

PodcastConfiguration.recorder_token

```
class radioco.apps.global_settings.models.RadiocomConfiguration (id, station_name,  
                                                    icon_url,  
                                                    big_icon_url,  
                                                    history,      lati-  
                                                    tude,      longitude,  
                                                    news_rss,   sta-  
                                                    tion_photos,  
                                                    stream_url)  
  
Bases: radioco.apps.global_settings.models.SingletonModel  
exception DoesNotExist  
    Bases: django.core.exceptions.ObjectDoesNotExist  
exception RadiocomConfiguration.MultipleObjectsReturned  
    Bases: django.core.exceptions.MultipleObjectsReturned  
RadiocomConfiguration.objects = <radioco.apps.global_settings.models.SingletonModelManager object>  
class radioco.apps.global_settings.models.SingletonModel (*args, **kwargs)  
    Bases: django.db.models.base.Model  
  
    class Meta  
  
        abstract = False  
SingletonModel.delete (*args, **kwargs)  
SingletonModel.get_global ()  
SingletonModel.objects  
SingletonModel.save (*args, **kwargs)  
class radioco.apps.global_settings.models.SingletonModelManager  
    Bases: django.db.models.manager.Manager  
  
    get (*args, **kwargs)  
class radioco.apps.global_settings.models.SiteConfiguration (id,      site_name,  
                                                    about_footer,  
                                                    more_about_us,  
                                                    google_analytics_id,  
                                                    address,      twit-  
                                                    ter_address,   face-  
                                                    book_address)  
  
Bases: radioco.apps.global_settings.models.SingletonModel  
exception DoesNotExist  
    Bases: django.core.exceptions.ObjectDoesNotExist  
exception SiteConfiguration.MultipleObjectsReturned  
    Bases: django.core.exceptions.MultipleObjectsReturned  
SiteConfiguration.objects = <radioco.apps.global_settings.models.SingletonModelManager object>
```

Module contents

radioco.apps.programmes package

Subpackages

`radioco.apps.programmes.migrations` package

Submodules

`radioco.apps.programmes.migrations.0001_initial` module

class `radioco.apps.programmes.migrations.0001_initial.Migration` (*name*, *app_label*)

Bases: `django.db.migrations.migration.Migration`

dependencies = [(`'auth'`, `'__first__'`)]

operations = [`<CreateModel fields=[('id', <django.db.models.fields.AutoField>), ('title', <django.db.models.fields.CharField>)]>`]

`radioco.apps.programmes.migrations.0002_change_language_choices` module

class `radioco.apps.programmes.migrations.0002_change_language_choices.Migration` (*name*, *app_label*)

Bases: `django.db.migrations.migration.Migration`

dependencies = [(`'programmes'`, `'0001_initial'`)]

operations = [`<RunPython <function lowercase_language>>`, `<AlterField field=<django.db.models.fields.CharField>, name='language', new_name='lowercase_language', old_name='language', type='CharField'>`]

`radioco.apps.programmes.migrations.0002_change_language_choices.lowercase_language` (*apps*, *schema_editor*)

`radioco.apps.programmes.migrations.0003_change_textfield_to_richtextfield` module

class `radioco.apps.programmes.migrations.0003_change_textfield_to_richtextfield.Migration` (*name*, *app_label*)

Bases: `django.db.migrations.migration.Migration`

dependencies = [(`'programmes'`, `'0002_change_language_choices'`)]

operations = [`<AlterField field=<ckeditor.fields.RichTextField>, preserve_default=True, name='summary', model_name='programme', old_name='summary', type='RichTextField'>`]

`radioco.apps.programmes.migrations.0004_change_photo_url` module

class `radioco.apps.programmes.migrations.0004_change_photo_url.Migration` (*name*, *app_label*)

Bases: `django.db.migrations.migration.Migration`

dependencies = [(`'programmes'`, `'0003_change_textfield_to_richtextfield'`)]

operations = [`<RunPython <function change_photo_url>>`]

`radioco.apps.programmes.migrations.0004_change_photo_url.change_photo_url` (*apps*, *schema_editor*)

radioco.apps.programmes.migrations.0005_auto_20150531_1734 module

```
class radioco.apps.programmes.migrations.0005_auto_20150531_1734.Migration (name,  
                                                    app_label)  
    Bases: django.db.migrations.migration.Migration  
    dependencies = [(u'programmes', u'0004_change_photo_url')]  
    operations = [<AlterField field=<django.db.models.fields.related.OneToOneField>, preserve_default=True, name=u'ep
```

radioco.apps.programmes.migrations.0006_auto_20160104_2029 module

```
class radioco.apps.programmes.migrations.0006_auto_20160104_2029.Migration (name,  
                                                    app_label)  
    Bases: django.db.migrations.migration.Migration  
    dependencies = [(u'programmes', u'0005_auto_20150531_1734')]  
    operations = [<AlterField field=<django.db.models.fields.files.ImageField>, name=u'photo', model_name=u'program
```

radioco.apps.programmes.migrations.0007_change_default_image module

```
class radioco.apps.programmes.migrations.0007_change_default_image.Migration (name,  
                                                    app_label)  
    Bases: django.db.migrations.migration.Migration  
    dependencies = [(u'programmes', u'0006_auto_20160104_2029'), (u'users', u'0003_auto_20160104_2029')]  
    operations = [<RunPython <function change_programmes>>, <RunPython <function change_users>>]  
radioco.apps.programmes.migrations.0007_change_default_image.change_programmes (apps,  
                                                    schema_editor)  
radioco.apps.programmes.migrations.0007_change_default_image.change_users (apps,  
                                                    schema_editor)
```

radioco.apps.programmes.migrations.0008_auto_20160116_1509 module

```
class radioco.apps.programmes.migrations.0008_auto_20160116_1509.Migration (name,  
                                                    app_label)  
    Bases: django.db.migrations.migration.Migration  
    dependencies = [(u'programmes', u'0007_change_default_image')]  
    operations = [<AlterField field=<django.db.models.fields.CharField>, name=u'language', model_name=u'programme
```

radioco.apps.programmes.migrations.0009__v3_0__small_tweaks module

```
class radioco.apps.programmes.migrations.0009__v3_0__small_tweaks.Migration (name,  
                                                    app_label)  
    Bases: django.db.migrations.migration.Migration  
    dependencies = [(u'programmes', u'0008_auto_20160116_1509'), (u'radioco', u'0001__v3_0__mysql_timezone')]  
    operations = [<AlterField field=<django.db.models.fields.DateField>, name=u'end_date', model_name=u'programme
```

`radioco.apps.programmes.migrations.0010__v3_2__convert_role` module

```
class radioco.apps.programmes.migrations.0010__v3_2__convert_role.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'programmes', u'0009__v3_0__small_tweaks')]
    operations = [<AlterField field=<django.db.models.fields.CharField>, name=u'role', model_name=u'participant'>, <A
radioco.apps.programmes.migrations.0010__v3_2__convert_role.convert_role_choice_to_value (ap
sc
```

`radioco.apps.programmes.migrations.0011__v3_2__ensure_one_user_role` module

```
class radioco.apps.programmes.migrations.0011__v3_2__ensure_one_user_role.Migration(name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'programmes', u'0010__v3_2__convert_role')]
    operations = [<AlterUniqueTogether unique_together=set([(u'person', u'episode')]), name=u'participant'>, <AlterUn
```

Module contents

Submodules

`radioco.apps.programmes.admin` module

```
class radioco.apps.programmes.admin.NonStaffEpisodeAdmin(model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
    fields = ['programme', 'title', 'summary', 'issue_date', 'season', 'number_in_season']
    form
        alias of NonStaffEpisodeAdminForm
    formfield_for_foreignkey (db_field, request=None, **kwargs)
    get_queryset (request)
    get_readonly_fields (request, obj=None)
    inlines = [<class 'radioco.apps.programmes.admin.NonStaffParticipantInline'>, <class 'radioco.apps.programmes.ad
    list_display = ('__unicode__', 'season', 'number_in_season', 'issue_date', 'programme')
    list_filter = ['issue_date', <class 'radioco.apps.programmes.admin.OwnEpisodeProgrammeListFilter'>, <class 'rad
    list_select_related = True
    media
    ordering = ['-season', '-number_in_season']
    save_formset (request, form, formset, change)
    save_model (request, obj, form, change)
    search_fields = ['programme__name']
```

```
class radioco.apps.programmes.admin.NonStaffEpisodeAdminForm (*args, **kwargs)
    Bases: django.forms.models.ModelForm

    class Meta

        fields = '__all__'

        model
            alias of Episode

NonStaffEpisodeAdminForm.base_fields = OrderedDict([('title', <django.forms.fields.CharField object>), ('peo
NonStaffEpisodeAdminForm.clean_programme ()
NonStaffEpisodeAdminForm.declared_fields = OrderedDict()
NonStaffEpisodeAdminForm.media

class radioco.apps.programmes.admin.NonStaffParticipantInline (parent_model,      ad-
                                                                min_site)
    Bases: django.contrib.admin.options.StackedInline

    extra = 0

    form
        alias of NonStaffParticipantInlineForm

    formset
        alias of NonStaffParticipantInlineFormset

    get_formset (request, obj=None, **kwargs)

    get_queryset (request)

    media

    model
        alias of Participant

class radioco.apps.programmes.admin.NonStaffParticipantInlineForm (*args,
                                                                    **kwargs)
    Bases: django.forms.models.ModelForm

    base_fields = OrderedDict()

    clean ()

    declared_fields = OrderedDict()

    media

class radioco.apps.programmes.admin.NonStaffParticipantInlineFormset (data=None,
                                                                    files=None,
                                                                    in-
                                                                    stance=None,
                                                                    save_as_new=False,
                                                                    pre-
                                                                    fix=None,
                                                                    query-
                                                                    set=None,
                                                                    **kwargs)

    Bases: django.forms.models.BaseInlineFormSet

class radioco.apps.programmes.admin.NonStaffProgrammeAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
```

```

get_fieldsets (request, obj=None)
get_prepopulated_fields (request, obj=None)
get_queryset (request)
inlines = [<class 'radioco.apps.programmes.admin.NonStaffRoleInline'>]
list_display = ('name', '_runtime', 'current_season', 'category', 'start_date', 'end_date')
list_filter = ['_runtime', 'category']
media
save_formset (request, form, formset, change)
search_fields = ['name']
class radioco.apps.programmes.admin.NonStaffRoleInline (parent_model, admin_site)
    Bases: django.contrib.admin.options.StackedInline
    extra = 0
    form
        alias of NonStaffRoleInlineForm
    formset
        alias of NonStaffRoleInlineFormset
    get_formset (request, obj=None, **kwargs)
    get_queryset (request)
    list_select_related = True
    media
    model
        alias of Role
class radioco.apps.programmes.admin.NonStaffRoleInlineForm (*args, **kwargs)
    Bases: django.forms.models.ModelForm
    base_fields = OrderedDict()
    clean ()
        Check unique together: person, role, programme
    declared_fields = OrderedDict()
    media
class radioco.apps.programmes.admin.NonStaffRoleInlineFormset (data=None,
                                                                    files=None,      in-
                                                                    stance=None,
                                                                    save_as_new=False,
                                                                    prefix=None,
                                                                    queryset=None,
                                                                    **kwargs)
    Bases: django.forms.models.BaseInlineFormSet
class radioco.apps.programmes.admin.OwnEpisodeIssueDateListFilter (request,
                                                                    params, model,
                                                                    model_admin)
    Bases: django.contrib.admin.filters.SimpleListFilter
    lookups (request, model_admin)

```

```
parameter_name = 'date'
queryset (request, queryset)
title = <django.utils.functional.__proxy__ object>
class radioco.apps.programmes.admin.OwnEpisodeProgrammeListFilter (request,
                                                                    params, model,
                                                                    model_admin)
    Bases: django.contrib.admin.filters.SimpleListFilter
    Check people in programmes besides episodes, better performance
    lookups (request, model_admin)
    parameter_name = 'programme'
    queryset (request, queryset)
    title = <django.utils.functional.__proxy__ object>
class radioco.apps.programmes.admin.PodcastInline (parent_model, admin_site)
    Bases: django.contrib.admin.options.StackedInline
    extra = 0
    inline_classes = ('grp-collapse grp-open',)
    media
    model
        alias of Podcast
```

radioco.apps.programmes.feeds module

```
class radioco.apps.programmes.feeds.ProgrammeFeed
    Bases: django.contrib.syndication.views.Feed
    description (programme)
    feed_extra_kwargs (programme)
    get_object (request, slug)
    item_description (podcast)
    item_enclosure_length (podcast)
    item_enclosure_mime_type (podcast)
    item_enclosure_url (podcast)
    item_extra_kwargs (podcast)
    item_keywords (podcast)
    item_pubdate (podcast)
    item_title (podcast)
    items (programme)
    link (programme)
    title (programme)
```

```

class radioco.apps.programmes.feeds.RssProgrammeFeed
    Bases: radioco.apps.programmes.feeds.ProgrammeFeed

    feed_type
        alias of iTunesFeed

    item_guid (podcast)

class radioco.apps.programmes.feeds.iTunesFeed (title, link, description, language=None,
                                                author_email=None, author_name=None,
                                                author_link=None, subtitle=None,
                                                categories=None, feed_url=None,
                                                feed_copyright=None, feed_guid=None,
                                                ttl=None, **kwargs)
    Bases: django.utils.feedgenerator.Rss201rev2Feed

    add_item_elements (handler, item)

    add_root_elements (handler)

    rss_attributes ()

```

radioco.apps.programmes.models module

```

class radioco.apps.programmes.models.Episode (id, title, programme, summary, issue_date, sea-
                                                son, number_in_season)
    Bases: django.db.models.base.Model

    exception DoesNotExist
        Bases: django.core.exceptions.ObjectDoesNotExist

    exception Episode.MultipleObjectsReturned
        Bases: django.core.exceptions.MultipleObjectsReturned

    Episode.get_absolute_url ()

    Episode.objects = <radioco.apps.programmes.models.EpisodeManager object>

    Episode.participant_set

    Episode.people

    Episode.podcast

    Episode.programme

    Episode.runtime

    Episode.summary_text

class radioco.apps.programmes.models.EpisodeManager
    Bases: django.db.models.manager.Manager

    create_episode (date, programme, last_episode=None, episode=None)

    static last (programme)

    static unfinished (programme, after=None)

class radioco.apps.programmes.models.Participant (id, person, episode, role, description)
    Bases: django.db.models.base.Model

    exception DoesNotExist
        Bases: django.core.exceptions.ObjectDoesNotExist

```

exception `Participant.MultipleObjectsReturned`

Bases: `django.core.exceptions.MultipleObjectsReturned`

`Participant.episode`

`Participant.objects = <django.db.models.manager.Manager object>`

`Participant.person`

class `radioco.apps.programmes.models.Podcast` (*episode, url, mime_type, length, duration*)

Bases: `django.db.models.base.Model`

exception `DoesNotExist`

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception `Podcast.MultipleObjectsReturned`

Bases: `django.core.exceptions.MultipleObjectsReturned`

`Podcast.episode`

`Podcast.get_absolute_url()`

`Podcast.objects = <django.db.models.manager.Manager object>`

class `radioco.apps.programmes.models.Programme` (*id, name, synopsis, photo, language, current_season, category, slug, _runtime, start_date, end_date*)

Bases: `django.db.models.base.Model`

`CATEGORY_CHOICES = (('Arts', <django.utils.functional.__proxy__ object>), ('Business', <django.utils.functional.__proxy__ object>))`

exception `DoesNotExist`

Bases: `django.core.exceptions.ObjectDoesNotExist`

exception `Programme.MultipleObjectsReturned`

Bases: `django.core.exceptions.MultipleObjectsReturned`

`Programme.announcers`

`Programme.end_dt`

`Programme.episode_set`

`Programme.get_absolute_url()`

`Programme.get_category_display(*moreargs, **morekwargs)`

`Programme.get_language_display(*moreargs, **morekwargs)`

`Programme.objects = <django.db.models.manager.Manager object>`

`Programme.photo`

Just like the `FileDescriptor`, but for `ImageFields`. The only difference is assigning the width/height to the `width_field/height_field`, if appropriate.

`Programme.rearrange_episodes` (*after, calendar*)

Update the `issue_date` of episodes from a given date

`Programme.role_set`

`Programme.runtime`

`Programme.save(*args, **kwargs)`

`Programme.schedule_set`

`Programme.start_dt`

Programme.**synopsis_text**

```
class radioco.apps.programmes.models.Role(id, person, programme, role, description,
                                         date_joined)
```

Bases: django.db.models.base.Model

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception Role.MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

Role.**get_next_by_date_joined**(**moreargs, **morekwargs*)

Role.**get_previous_by_date_joined**(**moreargs, **morekwargs*)

Role.**objects** = <django.db.models.manager.Manager object>

Role.**person**

Role.**programme**

```
radioco.apps.programmes.models.update_schedule_if_dt_has_changed(sender,
                                                                    instance,
                                                                    **kwargs)
```

```
radioco.apps.programmes.models.update_schedule_performance(programme)
```

radioco.apps.programmes.urls module

radioco.apps.programmes.utils module

radioco.apps.programmes.views module

```
radioco.apps.programmes.views.episode_detail(request, slug, season_number,
                                               episode_number)
```

```
radioco.apps.programmes.views.programme_detail(request, slug)
```

Module contents

radioco.apps.radioco package

Subpackages

radioco.apps.radioco.management package

Subpackages

radioco.apps.radioco.management.commands package

Submodules

radioco.apps.radioco.management.commands.create_example_data module

```
class radioco.apps.radioco.management.commands.create_example_data.Command (stdout=None, stderr=None, no_color=False)  
  
    Bases: django.core.management.base.BaseCommand  
  
    handle (*args, **options)
```

Module contents

Module contents

radioco.apps.radioco.migrations package

Submodules

radioco.apps.radioco.migrations.0001__v3_0__mysql_timezone module

```
class radioco.apps.radioco.migrations.0001__v3_0__mysql_timezone.Migration (name, app_label)  
  
    Bases: django.db.migrations.migration.Migration  
  
    dependencies = [(u'schedules', u'0001_initial'), (u'programmes', u'0008_auto_20160116_1509'), (u'global_settings', u'  
    operations = [<RunPython <function migrate_datetime_to_utc>>]  
  
radioco.apps.radioco.migrations.0001__v3_0__mysql_timezone.migrate_datetime_to_utc (apps, schema_ed  
  
    version 3 introduces timezone support, this migration will fix the Episode issue_date Since Postgres is the only  
    database which is already storing the datetimes in utc we don't need to run on it
```

Module contents

radioco.apps.radioco.tests package

Submodules

radioco.apps.radioco.tests.tests module

```
class radioco.apps.radioco.tests.tests.RadioIntegrationTests (methodName='runTest')  
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.TestCase  
  
    test_index ()  
  
class radioco.apps.radioco.tests.tests.UtilsTest (methodName='runTest')  
    Bases: django.test.testcases.TestCase  
  
    test_dictionary_key ()  
        Making sure that is safe to use a dt tz aware object in a different timezone to access a dictionary  
  
    test_example_data ()  
        Running example data function, If nothing crash we are happy
```

Module contents

Submodules

radioco.apps.radioco.context_processors module

`radioco.apps.radioco.context_processors.settings` (*request*)

radioco.apps.radioco.test_utils module

class `radioco.apps.radioco.test_utils.TestDataMixin`

Bases: `object`

classmethod `setUpTestData()`

`radioco.apps.radioco.test_utils.create_test_data()`

`radioco.apps.radioco.test_utils.spain_tz()`

radioco.apps.radioco.tz_utils module

class `radioco.apps.radioco.tz_utils.GMT` (*seconds*)

Bases: `dateutil.tz.tz.tzoffset`

GMT implementation, it has a fixed offset

localize (*dt, is_dst=False*)

Convert naive time to local time

normalize (*dt, is_dst=False*)

Correct the timezone information on the given datetime

`radioco.apps.radioco.tz_utils.fix_recurrence_date` (*start_dt, dt*)

Fix for django-recurrence 1.3 rdates and exdates needs a datetime, we are combining the date with the time from start_date.

Return: A datetime in the default timezone with the offset required to work in the recurrence

`radioco.apps.radioco.tz_utils.fix_recurrence_dst` (*dt*)

Fix for django-recurrence 1.3 Function to fix a datetime tz aware with an incorrect offset

Returns: A datetime in the same timezone but with the offset fixed

`radioco.apps.radioco.tz_utils.get_active_timezone` ()

Same method as `timezone.get_current_timezone` but returning utc if nothing was set

`radioco.apps.radioco.tz_utils.recurrence_after` (*recurrence, after_dt, start_dt*)

Fix for django-recurrence 1.3 Avoid outputting a impossible dt

`radioco.apps.radioco.tz_utils.recurrence_before` (*recurrence, before_dt, start_dt*)

Fix for django-recurrence 1.3 Avoid outputting a impossible dt

`radioco.apps.radioco.tz_utils.transform_datetime_tz` (*dt, tz=None*)

Transform a datetime in other timezone to the current one

`radioco.apps.radioco.tz_utils.transform_dt_to_default_tz` (*dt*)

Transform a datetime in other timezone to the current one

radioco.apps.radioco.utils module

class radioco.apps.radioco.utils.**DeletePermissionMixin**
Bases: object

dispatch (*request*, *args, **kwargs)

model = None

class radioco.apps.radioco.utils.**GetObjectMixin**
Bases: django.views.generic.detail.SingleObjectMixin

dispatch (*args, **kwargs)

object = None

radioco.apps.radioco.utils.**check_delete_permission** (*user*, *model*)

radioco.apps.radioco.utils.**create_example_data** ()

radioco.apps.radioco.utils.**field_has_changed** (*_object*, *field*)

class radioco.apps.radioco.utils.**memorize** (*func*)
Bases: dict

A simple cache system, use as decorator

radioco.apps.radioco.views module

radioco.apps.radioco.views.**index** (*request*)

radioco.apps.radioco.views.**user_logout** (*request*)

Module contents

radioco.apps.schedules package

Subpackages

radioco.apps.schedules.migrations package

Submodules

radioco.apps.schedules.migrations.0001_initial module

class radioco.apps.schedules.migrations.0001_initial.**Migration** (*name*, *app_label*)
Bases: django.db.migrations.migration.Migration

dependencies = [(u'programmes', u'0001_initial')]

operations = [<CreateModel fields=[(u'id', <django.db.models.fields.AutoField>), (u'day', <django.db.models.fields.Int

radioco.apps.schedules.migrations.0002__v3_0__renaming_calendar_model module

```
class radioco.apps.schedules.migrations.0002__v3_0__renaming_calendar_model.Migration (name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'schedules', u'0001_initial'), (u'radioco', u'0001__v3_0__mysql_timezone')]
    operations = [<RenameField new_name=u'calendar', model_name=u'schedule', old_name=u'schedule_board'>, <RemoveField name=u'schedule_board', model_name=u'schedule'>]
radioco.apps.schedules.migrations.0002__v3_0__renaming_calendar_model.migrate_board (apps,
                                                                    schema_editor)
    Renaming previous Calendars and creating a new one
```

radioco.apps.schedules.migrations.0003__v3_0__create_excludeddates_model module

```
class radioco.apps.schedules.migrations.0003__v3_0__create_excludeddates_model.Migration (name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'schedules', u'0002__v3_0__renaming_calendar_model')]
    operations = [<CreateModel fields=[(u'id', <django.db.models.fields.AutoField>), (u'datetime', <django.db.models.fields.DateTimeField>)]>]
```

radioco.apps.schedules.migrations.0004__v3_0__adding_rrules module

```
class radioco.apps.schedules.migrations.0004__v3_0__adding_rrules.Migration (name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'schedules', u'0003__v3_0__create_excludeddates_model')]
    operations = [<AddField field=<django.db.models.fields.DateTimeField>, name=u'end_date', model_name=u'schedule'>]
radioco.apps.schedules.migrations.0004__v3_0__adding_rrules.migrate_daily_recurrences (apps,
                                                                    schema_editor)
    Migration to convert weekly recurrences into new complex recurrences
```

radioco.apps.schedules.migrations.0005__v3_0__migrating_schedules_to_unique_calendar module

```
class radioco.apps.schedules.migrations.0005__v3_0__migrating_schedules_to_unique_calendar.Migration (name,
                                                                    app_label)
    Bases: django.db.migrations.migration.Migration
    dependencies = [(u'schedules', u'0004__v3_0__adding_rrules'), (u'programmes', u'0009__v3_0__small_tweaks')]
    operations = [<RunPython <function migrate_schedules>>, <RemoveField name=u'day', model_name=u'schedule'>, <RemoveField name=u'end_date', model_name=u'schedule'>]
radioco.apps.schedules.migrations.0005__v3_0__migrating_schedules_to_unique_calendar.calculate_last_end_date
    Calculation of the last end date to improve performance
radioco.apps.schedules.migrations.0005__v3_0__migrating_schedules_to_unique_calendar.calculate_first_start_date
    Calculation of the first start date to improve performance
radioco.apps.schedules.migrations.0005__v3_0__migrating_schedules_to_unique_calendar.migrate_schedules
    Final Migration to v3.0
```

Before this migration Calendar (ScheduleBoard) had a date limit and all the schedules were repeated weekly
We want to move constraint dates from Calendar to programmes and clone the active schedules into the active calendar

```
radioco.apps.schedules.migrations.0005__v3_0__migrating_schedules_to_unique_calendar.recurrence
```

Fix for django-recurrence 1.3 Avoid outputting a non possible dt

```
radioco.apps.schedules.migrations.0005__v3_0__migrating_schedules_to_unique_calendar.recurrence
```

Fix for django-recurrence 1.3 Avoid outputting a non possible dt

Module contents

radioco.apps.schedules.tests package

Submodules

radioco.apps.schedules.tests.test_recurrences module

```
class radioco.apps.schedules.tests.test_recurrences.EmptyRecurrenceTests (methodName='runTest')  
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.TestCase
```

Tests to check django-recurrence behaviour when there are no recurrences

```
setUp()
```

```
test_after()
```

```
test_after_inclusive()
```

```
test_before()
```

```
test_before_inclusive()
```

```
test_no_values()
```

```
class radioco.apps.schedules.tests.test_recurrences.RecurrenceTests (methodName='runTest')  
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.TestCase
```

Tests to check django-recurrence behaviour

```
setUp()
```

```
test_after()
```

```
test_after_inclusive()
```

```
test_before_dt()
```

```
test_before_inclusive()
```

```
test_impossible_recurrence_after()
```

Testing error calling after and function wrapper to solve it (recurrence_after)

```

test_impossible_recurrence_before ()
    Testing error calling before and function wrapper to solve it (recurrence_before)

test_last_date_is_equals_before_limit ()

test_start_date_is_before_start_limit ()

test_when_date_doesnt_exist_on_february ()

```

radioco.apps.schedules.tests.test_schedules module

```

class radioco.apps.schedules.tests.test_schedules.CalendarAdminTests (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.
    TestCase

    setUp ()

    test_clone_calendar ()

class radioco.apps.schedules.tests.test_schedules.CalendarManagerTests (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.
    TestCase

    setUp ()

    test_current ()

    test_current_no_date ()

class radioco.apps.schedules.tests.test_schedules.CalendarModelTests (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.
    TestCase

    test_str ()

class radioco.apps.schedules.tests.test_schedules.CalendarValidationTests (methodName='runTest')
    Bases: django.test.testcases.TestCase

    setUp ()

    test_only_one_calendar_active ()

class radioco.apps.schedules.tests.test_schedules.ScheduleBetweenTests (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.
    TestCase

    setUp ()

    test_between_includes_started_episode ()

    test_dates_between_includes_started_episode ()

class radioco.apps.schedules.tests.test_schedules.ScheduleModelTests (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.
    TestCase

    setUp ()

    test_date_after ()

    test_date_after_exclude ()

    test_date_before ()

    test_dates_between ()

```

```
test_dates_between_complex_ruleset ()
test_dates_between_earlier_end_by_programme ()
test_dates_between_later_start_by_programme ()
test_end_gt_calendar ()
test_recurrence_rules ()
test_runtime ()
test_runtime_not_set ()
test_save_rearrange_episodes (*args, **keywargs)
test_start ()
test_start_lt_calendar ()
test_unicode ()
```

```
class radioco.apps.schedules.tests.test_schedules.ScheduleUtilsTests (methodName='runTest')
Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.
TestCase
```

```
setUp ()
test_available_dates_after ()
test_available_dates_none ()
test_rearrange_episodes ()
test_rearrange_episodes_new_schedule (*args, **keywargs)
test_rearrange_only_non_emited_episodes (*args, **keywargs)
```

```
class radioco.apps.schedules.tests.test_schedules.ScheduleValidationTests (methodName='runTest')
Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.
TestCase
```

```
test_fields ()
```

```
class radioco.apps.schedules.tests.test_schedules.TransmissionModelTests (methodName='runTest')
Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.
TestCase
```

```
setUp ()
test_at ()
test_between ()
test_between_by_queryset ()
test_end ()
test_episode__url ()
test_name ()
test_programme_url ()
test_slug ()
test_start ()
```

```
radioco.apps.schedules.tests.test_schedules.mock_now (dt=datetime.datetime(2014, 1,
1, 13, 30, tzinfo=<UTC>))
```

radioco.apps.schedules.tests.test_timezone module

```
class radioco.apps.schedules.tests.test_timezone.ScheduleModelTests (methodName='runTest')
    Bases: radioco.apps.radioco.test_utils.TestDataMixin, django.test.testcases.TestCase
```

```
    setUp()
    test_CEST_transition()
    test_CET_transition()
    test_cleaned_internal_recurrence_dates()
    test_transform_dt_to_default_tz()
```

```
radioco.apps.schedules.tests.test_timezone.test_CET_transitions (self)
```

Module contents

Submodules

radioco.apps.schedules.admin module

```
class radioco.apps.schedules.admin.CalendarAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
```

```
    actions = ['clone_calendar', 'set_active']
    clone_calendar (request, queryset)
    list_display = ('name', 'is_active')
    list_filter = ['is_active']
    media
    ordering = ['name']
    search_fields = ['name']
    set_active (request, queryset)
```

```
class radioco.apps.schedules.admin.ScheduleAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
```

```
    change_list_template = 'admin/schedules/calendar.html'
    changelist_view (request, extra_context=None)
    fieldsets = ((None, {'fields': ('programme', 'type', 'start_dt', 'recurrences')}), (<django.utils.functional.__proxy__ ob
    has_add_permission (request)
    media
    readonly_fields = ('effective_start_dt', 'effective_end_dt', 'source', 'from_collection')
```

`radioco.apps.schedules.forms` module

```
class radioco.apps.schedules.forms.DeleteScheduleForm(has_recurrences,          *args,
                                                    **kwargs)
    Bases: django.forms.forms.Form
    DELETE_ALL = 'all'
    DELETE_ONLY_THIS = 'only_this'
    DELETE_THIS_AND_FOLLOWING = 'this_and_following'
    base_fields = OrderedDict([('transmission_dt', <django.forms.fields.DateTimeField object>), ('schedule', <django.forms.fields.DateTimeField object>)]
    declared_fields = OrderedDict([('transmission_dt', <django.forms.fields.DateTimeField object>), ('schedule', <django.forms.fields.DateTimeField object>)]
    media
```

`radioco.apps.schedules.models` module

```
class radioco.apps.schedules.models.Calendar(id, name, is_active)
    Bases: django.db.models.base.Model
    exception DoesNotExist
        Bases: django.core.exceptions.ObjectDoesNotExist
    exception Calendar.MultipleObjectsReturned
        Bases: django.core.exceptions.MultipleObjectsReturned
    classmethod Calendar.get_active()
    Calendar.objects = <django.db.models.manager.Manager object>
    Calendar.rearrange_episodes()
    Calendar.save(*args, **kwargs)
    Calendar.schedule_set

class radioco.apps.schedules.models.CalendarManager
    Bases: django.db.models.manager.Manager
    current()

class radioco.apps.schedules.models.ExcludedDates(*args, **kwargs)
    Bases: django.db.models.base.Model
    Helper to improve performance
    exception DoesNotExist
        Bases: django.core.exceptions.ObjectDoesNotExist
    exception ExcludedDates.MultipleObjectsReturned
        Bases: django.core.exceptions.MultipleObjectsReturned
    ExcludedDates.date
    ExcludedDates.get_new_excluded_datetime(new_dt)
        Returns: A new dt to be excluded in that date
    ExcludedDates.get_next_by_datetime(*moreargs, **morekwargs)
    ExcludedDates.get_previous_by_datetime(*moreargs, **morekwargs)
    ExcludedDates.objects = <django.db.models.manager.Manager object>
```

ExcludedDates.**schedule**

```
class radioco.apps.schedules.models.Schedule(id, programme, type, calendar, recurrences,
                                             start_dt, effective_start_dt, effective_end_dt,
                                             from_collection, source)
```

Bases: django.db.models.base.Model

exception DoesNotExist

Bases: django.core.exceptions.ObjectDoesNotExist

exception Schedule.MultipleObjectsReturned

Bases: django.core.exceptions.MultipleObjectsReturned

Schedule.**calendar**

Schedule.**child_schedules**

Schedule.**date_after** (*after*)

Schedule.**date_before** (*before*)

Schedule.**dates_between** (*after, before*)

Return a sorted list of dates between after and before

Schedule.**exclude_date** (*dt*)

Schedule.**excludeddates_set**

Schedule.**from_collection**

Schedule.**get_next_by_start_dt** (**moreargs, **morekwargs*)

Schedule.**get_previous_by_start_dt** (**moreargs, **morekwargs*)

static Schedule.**get_schedule_which_excluded_dt** (*programme, dt*)

Schedule.**get_type_display** (**moreargs, **morekwargs*)

Schedule.**has_recurrences** ()

Schedule.**include_date** (*dt*)

Schedule.**objects** = <django.db.models.manager.Manager object>

Schedule.**programme**

Schedule.**recurrences**

A placeholder class that provides a way to set the attribute on the model.

Schedule.**runtime**

Schedule.**save** (**args, **kwargs*)

Schedule.**schedule_set**

Schedule.**source**

```
class radioco.apps.schedules.models.Transmission(schedule, date, episode=None)
```

Bases: object

Temporal object generated according to recurrence rules or schedule information It contains concrete dates

classmethod at (*at*)

classmethod between (*after, before, schedules=None*)

Return a tuple of Schedule and Transmissions sorted by date

end

episode_url

name

programme_url

slug

`radioco.apps.schedules.models.calculate_effective_schedule_end_dt` (*schedule*)
Calculation of the last end date to improve performance

`radioco.apps.schedules.models.calculate_effective_schedule_start_dt` (*schedule*)
Calculation of the first start date to improve performance

radioco.apps.schedules.urls module

radioco.apps.schedules.utils module

`radioco.apps.schedules.utils.next_dates` (*calendar, programme, after*)
Returns: A generator with the next dates of a given programme

radioco.apps.schedules.views module

class `radioco.apps.schedules.views.DeleteScheduleView` (**kwargs)
Bases: `radioco.apps.radioco.utils.GetObjectMixin`, `radioco.apps.radioco.utils.DeletePermissionMixin`, `django.views.generic.edit.FormView`

form_class
alias of `DeleteScheduleForm`

form_valid (*form*)

get (*request, *args, **kwargs*)

get_context_data (**kwargs)

get_form_kwargs ()

get_initial ()

model
alias of `Schedule`

schedule_id = None

template_name = 'admin/schedules/delete_modal.html'

transmission_dt = None

`radioco.apps.schedules.views.schedule_list` (*request*)

Module contents

radioco.apps.users package

Subpackages


```
    clean_username ()
    declared_fields = OrderedDict([('username', <django.forms.fields.CharField object>), ('first_name', <django.forms
media
    save (force_insert=False, force_update=False, commit=True)
class radioco.apps.users.admin.SingletonProfileAdmin (model, admin_site)
    Bases: django.contrib.admin.options.ModelAdmin
    change_view (request, object_id, extra_context=None)
    fields = ['username', 'first_name', 'last_name', 'email', 'bio', 'avatar', 'display_personal_page']
    form
        alias of NonStaffUserProfileForm
    get_urls ()
    has_add_permission (request)
    has_delete_permission (request, obj=None)
    media
    response_change (request, obj)
    save_model (request, obj, form, change)
class radioco.apps.users.admin.UserProfileAdmin (model, admin_site)
    Bases: django.contrib.auth.admin.UserAdmin
    inlines = (<class 'radioco.apps.users.admin.UserProfileInline'>,)
    list_filter = ('is_staff', 'is_superuser', 'is_active', 'groups', 'userprofile__display_personal_page')
    media
class radioco.apps.users.admin.UserProfileInline (parent_model, admin_site)
    Bases: django.contrib.admin.options.StackedInline
    can_delete = False
    exclude = ('slug',)
    extra = 1
    inline_classes = ('grp-collapse grp-open',)
    media
    model
        alias of UserProfile
```

radioco.apps.users.models module

```
class radioco.apps.users.models.UserProfile (id, user, bio, avatar, display_personal_page,
                                             slug)
    Bases: django.db.models.base.Model
    exception DoesNotExist
        Bases: django.core.exceptions.ObjectDoesNotExist
    exception UserProfile.MultipleObjectsReturned
        Bases: django.core.exceptions.MultipleObjectsReturned
```

`UserProfile.avatar`

Just like the `FileDescriptor`, but for `ImageFields`. The only difference is assigning the width/height to the `width_field/height_field`, if appropriate.

`UserProfile.get_absolute_url()`

`UserProfile.objects = <django.db.models.manager.Manager object>`

`UserProfile.save(*args, **kwargs)`

`UserProfile.user`

`radioco.apps.users.models.save_slug(sender, instance=None, **kwargs)`

radioco.apps.users.tests module

class `radioco.apps.users.tests.UserProfileMethodTests` (*methodName='runTest'*)

Bases: `django.test.testcases.TestCase`

test_get_announcers_and_profile()

test_save()

radioco.apps.users.urls module

radioco.apps.users.views module

class `radioco.apps.users.views.UsersView` (***kwargs*)

Bases: `django.views.generic.list.ListView`

get_queryset()

model

alias of `UserProfile`

`radioco.apps.users.views.userprofile_detail(request, slug)`

Module contents

Module contents

radioco.configs package

Subpackages

radioco.configs.base package

Submodules

radioco.configs.base.manage module

radioco.configs.base.settings module

radioco.configs.base.settings.gettext_noop(*s*)

radioco.configs.base.test_runner module

```
class radioco.configs.base.test_runner.MyTestSuiteRunner(*args, **kwargs)
    Bases: django.test.runner.DiscoverRunner
```

radioco.configs.base.urls module

Module contents

radioco.configs.development package

Submodules

radioco.configs.development.manage module

radioco.configs.development.settings module

Module contents

radioco.configs.heroku package

Submodules

radioco.configs.heroku.manage module

radioco.configs.heroku.settings module

radioco.configs.heroku.wsgi module

Module contents

radioco.configs.staging package

Submodules

radioco.configs.staging.manage module

radioco.configs.staging.settings module

radioco.configs.staging.wsgi module

Module contents

Module contents

Module contents

tasks package

Submodules

tasks.docker module

tasks.docs module

tasks.heroku module

tasks.locale module

tasks.radioco module

tasks.utils module

Module contents

Release notes & upgrade information

Some versions of RadioCo present more complex upgrade paths than others, and some **require** you to take action. It is strongly recommended to read the release notes carefully when upgrading.

It goes without saying that you should **backup your database** before embarking on any process that makes changes to your database.

1.1 release notes

What's new in 1.1

- Numerous updates to the documentation
- Updates to facilitate the starting-up (radioco_recorder_user and a empty shedule_board are self-created)
- Added custom languages to programmes (by default, all django languages)

How this affects you

If you're starting with a new installation, you don't need to worry about this. Don't even bother reading this section; it's for upgraders.

Activate your virtualenv and do the following in your project main directory:

```
pip install django-radio==1.1
python manage.py migrate
```

1.1.1 release notes

What's new in 1.1.1

- Added CKEditor to programme's synopsis, episode's summary and user's biography
- Added default settings to the project
- Added customisable footer

How this affects you

If you're starting with a new installation, you don't need to worry about this. Don't even bother reading this section; it's for upgraders.

Activate your virtualenv and do the following in your project main directory:

```
pip install django-radio==1.1.1
python manage.py collectstatic
python manage.py migrate
```

In your settings.py import default settings:

```
from radio.settings_base import *
```

1.2 release notes

What's new in 1.2

- Fixed project urls when RadioCo is deployed in a subdirectory
- Fixed default url of photos when STATIC_URL is not "/static/"
- Fixed errors 404 when users don't have a personal webpage.

How this affects you

If you're starting with a new installation, you don't need to worry about this. Don't even bother reading this section; it's for upgraders.

Activate your virtualenv and do the following in your project main directory:

```
pip install django-radio==1.2
python manage.py migrate
```

2.1 release notes

What's new in 2.1

- New layout! The whole site has been redesigned
- Added image versions, RadioCo will adapt your images to fit in the new template
- Added comments support.

- Added analytics support.

How this affects you

If you're starting with a new installation, you don't need to worry about this. Don't even bother reading this section; it's for upgraders.

You need to replace your current source with the content of <https://github.com/iago1460/django-radio>. To setup your settings please read the configuration section.

You should be able to keep your current database but make sure to create a backup before start.

```
pip install -r radio/configs/common/requirements.txt
python manage.py collectstatic
python manage.py migrate
```

3.0 release notes

What's new in 3.0

In this version RadioCo has almost been rewritten completely, internally the major improvements are:

- Use of time-zone-aware datetime objects ([more info](#))
- Added good amount of tests
- Changed calendar to use API methods
- Using bower to download js and css dependencies
- Renamed internal folders and models
 - django-radio/radio -> django-radio/radioco
 - django-radio/radio/configs/common -> django-radio/radioco/configs/base
 - ScheduleBoard model has been renamed to Calendar
 - dashboard app has been merged into schedules

Special mention to [@stefan-walluhn](#) - Radio Corax who helped in this release, specifically adding Bower, Rest Framework API, tests and complex recurrence rules.

And the visible features are:

- Added download button to episodes ([#38](#) Credit to [@AlexCortinas](#))
- Removed unnecessary Scroll configuration setting ([#13](#) Credit to [@AlexCortinas](#))
- Improvements in title representation of episodes when not set ([#17](#) Credit to [@txenoo](#))
- Removed warnings when compiling ([#32](#) Thanks to [@txenoo](#))
- Added Radiocom endpoints (Thanks to [@pablogrela](#))
- Added upload feature to CKEditor ([#22](#))
- Added new calendar setting `slotDuration`
- Added a suite of helper tasks using `invoke` (Easy deploy to docker)
- Added public API to access to programmes, episodes, schedules and transmissions ([#2](#))
- The schedule manager has received important updates ([#20](#), [#4](#))

Now managing schedules should be a lot more simple. From the manager is possible to create and edit programmes in addition to schedules.

The forced weekly recurrence has been removed in favor of complex recurrence rules, having a unique calendar should be enough.

The Calendar model doesn't have date constraints anymore and only one can be active at the same time. If you want to restrict a programme you should do it filling the start and end date fields inside itself.

How this affects you

If you're starting with a new installation, you don't need to worry about this. Don't even bother reading this section; it's for upgraders.

Please **make sure of having a copy of your database** before even started to look to the next steps.

If you have custom code or templates I recommend putting them in a safe place, special mention to `local_settings.py` files, you are going to need to move them to the correct folder.

Since this migration introduces timezone support, it's necessary to set the timezone variable:

1. Find your timezone in [this list](#)
2. Go to the config folder and create if not exists a `local_settings.py` in the same directory than `settings.py`
3. Add to the local settings the variable `timezone`, for example: `TIME_ZONE = "Europe/Madrid"`

Warning: Using an incorrect timezone will cause incorrect dates, you should set/override that setting in your `local_settings.py`.

Warning: If you have a database backend [different to PostgreSQL](#) you must convert your data from local time to UTC. Fortunately for you a migration was written to fix episode `issue_dates`, other dates will suffer alterations.

Warning: We strongly recommend to use PostgreSQL as backend. Other database engines **will not be supported** in the future.

You have to install [bower](#) before running the following commands in the project root folder:

```
bower install
pip install -r radioco/configs/base/requirements.txt
python manage.py collectstatic
python manage.py migrate
```

After the migration process you will find that there is a new calendar set to active that contains all your schedules and your other calendars have been renamed with the prefix "Legacy - ". Feel free of delete these, they are not require anymore.

Note: Warning messages could appear during the migration process, it's usually safe to ignore them.

3.0.1 release notes

What's new in 3.0.1

- Fixing invoke commands.
- Simplified docker setup.

Take a look to our installation section.

How this affects you

If you're starting with a new installation, you don't need to worry about this. Don't even bother reading this section; it's for upgraders.

You need to replace your current source with the content of <https://github.com/iago1460/django-radio>. To setup your settings please read the configuration section.

This update doesn't require any further steps.

3.1 release notes

What's new in 3.1

- Fixing staging docker port issue. (Thanks to @mmontes11 for report)
- Adding stable Radiocom API
- Solving ticket #43
- Upgrading libraries to last version
- Small fixes to invoke scripts
- Improving API (Outputting absolute urls and adding some fields)

How this affects you

If you're starting with a new installation, you don't need to worry about this. Don't even bother reading this section; it's for upgraders.

You need to replace your current source with the content of <https://github.com/iago1460/django-radio>. To setup your settings please read the configuration section.

You should be able to keep your current database but make sure to create a backup before start.

```
pip install -r radioco/configs/base/requirements.txt
python manage.py collectstatic
python manage.py migrate # check the following note in case of error
```

Note: When migrating from version 3.0 to version 3.1 the following error will appear during the migration process `django.db.utils.ProgrammingError: relation "recurrence_date" already exists` to solve this please run the following command:

```
python manage.py migrate --fake-initial
```

Or if you are using our docker setup:

```
inv docker.clean -e staging
inv docker.setup -e staging # check the following note in case of error
```

Note: If a migration error appear during the setup please run:

```
inv docker.manage -e staging -c "migrate --fake-initial"
```

3.2 release notes

What's new in 3.2

- Solving ticket #5
- Improving rss (adding images and fixing itunes encoding)
- Added rss autodiscovery
- Documenting `django.contrib.sites`
- Improving ORM queries
- Adding cache to singleton models using memcached
- Improve performance in `staging config` using nginx cache, uwsgi and caching templates
- Updating Spanish and Galician translations
- Fixing progress bar in the main page

How this affects you

If you're starting with a new installation, you don't need to worry about this. Don't even bother reading this section; it's for upgraders.

You need to replace your current source with the content of <https://github.com/iago1460/django-radio>. To setup your settings please read the configuration section.

You should be able to keep your current database but make sure to create a backup before start.

Warning: You must ensure your episodes and programmes only have one role per user. A database constraint has been put in place as part of this migration.

Warning: This migration depends on `settings.LANGUAGE_CODE`, it will convert the `role` field into a editable CharField using your preferred language. Note you can change this value temporally to run this migration. [More info.](#)

```
pip install -r radioco/configs/base/requirements.txt
python manage.py collectstatic
python manage.py migrate
```

Note: If you have a custom production environment please consider to apply our [staging setup](#) to improve performance.

Or if you are using our docker setup:

```
inv docker.clean -e staging
inv docker.setup -e staging
```

3.2.1 release notes

What's new in 3.2.1

- Making rss links protocol aware so they can be opened by podcast apps.

How this affects you

If you're starting with a new installation, you don't need to worry about this. Don't even bother reading this section; it's for upgraders.

You need to replace your current source with the content of <https://github.com/iago1460/django-radio>. To setup your settings please read the configuration section.

This update doesn't require any further steps.

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