
repocribro Documentation

Release 0.1

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Welcome in the **repocribo** documentation. Continue by choosing the desired topic from the list of contents. You can also visit the repository [repocribo@GitHub](#).

Contents

1.1 Introduction



repocribo is [Python](#) powered web application allowing users to register their [GitHub](#) repositories so they can be managed, searched, browsed, tested, etc. (depends on used extensions) within the app. Main idea is to provide simple but powerful modular tool for building groups of [GitHub](#) repositories which are developed by different users and organizations with some common goal.

Cribo means sieve in [Italian language](#) (origins in Latin word *cribrum*). This project provides tool for intelligent sifting repositories, information about them and its contents.

This project has been created as final semester work for subject MI-PYT, CTU in Prague (more in [Credits](#)).

Project is open-source (under [MIT license](#)) published [@GitHub](#). Basically you just need to always include the copyright and permission notice with name of author. But it would be great if you let us know that you are using **repocribo** in any way!!!

1.2 Installation

1.2.1 Installation options

This application can be installed via standard `setuptools`, for more information read [Python docs - Installing Python Module](#). Check the [Requirements](#) before installation.

PyPi

- <https://pypi.python.org/pypi/repocribo>

You can use `pip` tool to install the package **repocribo** from [PyPi](#):

```
$ pip install repocribo
```

setup.py

Or download the repository from [GitHub](#) and run:

```
$ python3 setup.py install
```

Check installation

After the successful installation you should be able to run:

```
$ repocribo --version
repocribo v0.1
```

Become an admin

After first start you should login into web app via [GitHub](#) and then you can use `assign-role` command to become an admin.

```
$ repocribo assign-role --login MarekSuchanek --role admin
Loaded extensions: core
Role admin not in DB... adding
Role admin added to MarekSuchanek
```

1.2.2 Database

In order to create and maintain the database, you can use migrations by [Flask-Migrate](#):

```
$ repocribo db --help
```

Or you can use standard [SQLAlchemy](#) procedure `db.create_all()` via:

```
$ repocribo create-db
```

Both will try to create tables into database specified in the [Configuration](#).

1.2.3 Configuration

You can see example configuration files at:

- `config/app.example.cfg`
- `config/auth.example.cfg`
- `config/db.example.cfg`

!!! If you are going to publish your configuration somewhere make sure, that it does not contain any secret information like passwords or API tokens!

Syntax of configuration files is [standard INI](#), parsed by [ConfigParser](#). Names of variables are case insensitive. Configuration can be in separate configuration files but if there are same variables within same sections there will be overriding depending on the order of files.

Default config file can be also specified with environment variable:


```
$ export REPOCRIBRO_CONFIG_FILE='/path/to/config.cfg'
$ python
Python 3.5.2 (default, Oct 14 2016, 12:54:53)
[GCC 6.2.1 20160916 (Red Hat 6.2.1-2)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> from repocribo.app import app
>>> app.run()
```

Application

You can specify any of the Flask (or extensions) configuration variables that is supposed to be placed to `app.config`. Just use same name (it can be also lowercase). These configurations must be done in `[flask]` section. Mandatory attribute is `SECRET_KEY` used for the [session signing](#), this key is of course **private**.

- <http://flask.pocoo.org/docs/0.12/config/#builtin-configuration-values>

For example:

```
[flask]
# something is wrong, I want to debug
DEBUG = true
# random secret key (use os.urandom())
SECRET_KEY = VeryPseudoRandomSuchSecret
```

Database

Next you need to specify configuration of your database. Flask extension Flask-SQLAlchemy is used so again configuration needs to be done within section `[flask]`.

- <http://flask-sqlalchemy.pocoo.org/2.1/config/#configuration-keys>

!!! If file contains DB password and username keep it **private**!

For example:

```
[flask]
# SQLite is enough, just testing
SQLALCHEMY_DATABASE_URI = sqlite:///tmp/test.db
```

GitHub

For communication with GitHub OAuth you are going to need **Client ID** and **Client secret**. Also for working with webhooks secret key must be set-up so every incoming message can be verified. Specify those in `[github]` section of config.

- <https://developer.github.com/v3/oauth/>
- <https://github.com/settings/applications/new>
- <https://developer.github.com/webhooks/securing/>

!!! Always keep file with this configuration **private**!

For example:

```
[github]
# Client ID & secret is obtained by creating OAuth app
CLIENT_ID = myAppClientIdFromGitHub
CLIENT_SECRET = myAppClientSecretFromGitHub
# Webhook secret for signing should be randomly generated
WEBHOOKS_SECRET = someRandomSecretKeyForWebhooks
```

1.2.4 Requirements

- Python 3.5+
- Installed dependencies (automatic with `setup.py`)
- Configuration prepared
- DB supported by SQLAlchemy

1.3 Usage

1.3.1 Usage basics

First you need to have prepared config file(s) with at least minimal mandatory configuration and **repocribo** successfully installed(see [Installation](#) and [Configuration](#)).

```
$ repocribo --config <config_file> [command] [command options]
$ repocribo -c <config_file> [command] [command options]
$ repocribo -c <config_file_1> -c <config_file_2> [command] [command options]
```

For all commands you can specify configuration file(s) of **repocribo** app, order of arguments matters only if you are overriding same configuration variable in those files. If no config files are specified those from default path will be used.

Commands

After supplying configuration files you can use various commands. Full list of commands with details are described within [CLI commands](#).

For starting the web application (server) use:

```
$ repocribo runserver
```

Common options

You can also use standard `-?`, `--help` and `--version`:

```
$ repocribo --help
usage: repocribo [-c CFG_FILES] [-v] [-?] {runserver,db,shell,repocheck} ...

positional arguments:
  {runserver,db,shell,repocheck}
    runserver           Runs the Flask development server i.e. app.run()
    db                  Perform database migrations
    shell               Runs a Python shell inside Flask application context.
```

```

    repocheck          Perform check procedure of repository events

optional arguments:
  -c CFG_FILES, --config CFG_FILES
  -v, --version        show program's version number and exit
  -?, --help           show this help message and exit

$ repocribo --version
repocribo v0.0

```

1.3.2 CLI commands

There are various command for the app management some are provided by Flask extensions, some by repocribo. You can use option `--help` to get more information.

assign-role

Main purpose for this command is to set the initial admin of the app without touching DB directly. Others can be then set within administration zone of web interface.

```

$ repocribo assign-role --login MarekSuchanek --role admin
Loaded extensions: core
Role admin not in DB... adding
Role admin added to MarekSuchanek

$ repocribo assign-role --login MarekSuchanek --role admin
Loaded extensions: core
User MarekSuchanek already has role admin

```

For more information:

```
$ repocribo assign-role --help
```

db (database)

Command supplied by [Flask-Migrate extension](#) provides tool to work with database migrations (init, migrate, downgrade, upgrade, etc.).

For more information:

```
$ repocribo db --help
```

repocheck

Not implemented yet!

This command will provide simple checking of one or all repositories if there are some uncaught events within specified time. Main idea is to get the missed events (from webhooks) due to app outage.

runserver

Runs the web application (`app.run()`), but also some settings can be overridden like hostname, port, debugging, ...

For more information:

```
$ repocribro runserver --help
```

shell

Runs the Python shell inside the Flask app context. That can be useful for some debugging by hand.

For more information:

```
$ repocribro shell --help
```

1.3.3 Web application

Public usage

Anonymous (unauthenticated) user can browse public content of the web application which includes:

- landing with basic info
- search
- user/organization profiles
- public repositories with their releases and updates

Authentication

User can authenticate via GitHub OAuth with scope:

- `repo` = read and manage user repositories (with private)
- `user` = read user information (with private)
- `admin:webhook` = add/remove webhooks

User management

Every active (not banned) user can manage which of his/her repositories should be listed within application as:

- `public` = everyone can see them
- `hidden` = only people with secret URL can see them
- `private` = only owner or administrator can see them

Information about user account can be synchronized as well as the repository information. When activating the repository webhook is added. Because webhook can be deleted at GitHub by hand, user can recreate the webhook again (he can't do it by hand because doesn't know the webhooks secret).

Administration

Managing user accounts, roles and repositories (not owned) can be done in administration zone. Same principles as in user management zone.

REST API

There is also REST API (only GET) for all GitHub entities, but it will be reworked soon (because the repo privacy & compatibility issues).

The actual is done by [Flask-Restless](#) with collections:

- `user`
- `org`
- `repo`
- `push`
- `commit`
- `release`

1.4 Credits

This project was created as final semester work for the awesome subject [MI-PYT \(Advanced Python\)](#) taught at the [Faculty of Information Technology, Czech Technical University in Prague \(FIT CTU\)](#) by [@hroncok](#) and [@encukou](#).

Thanks goes to the Python community, to developers, contributors and other people around projects that are used within **repocribo**:

- [requests](#)
- [Flask](#) (and extensions)
- [Jinja](#)
- [pytest](#) (and extensions)
- [Sphinx](#)
- [SQLAlchemy](#)

Also many thanks to [GitHub](#), [Travis CI](#), [coveralls.io](#), [readthedocs.org](#), [requires.io](#) and [PyPi](#) for being here for all of us.

1.5 Testing

This project uses the most fabulous testing tools for Python:

- [pytest](#)
- [pytest-cov](#)
- [pytest-pep8](#)
- [betamax](#)

1.5.1 Run tests

Run tests simply by:

```
python setup.py test
```

or (if you have installed dependencies):

```
python -m pytest [options]
pytest [options]
```

You can also see the tests logs at [Travis CI](#).

1.5.2 Betamax cassettes

Betamax cassettes are stored in `tests/fixtures/cassettes` directory. If you are not connected to the Internet, GitHub API is not working and/or you don't want to create own GitHub token you will use (replay) them in order to test API client.

If you want to run your own cassettes, you need to setup system variable `GITHUB_TOKEN` which will contain the GitHub personal token (must have privileges to create/delete webhooks). You also must change variables within `tests/test_github.py` specifying some of your existing repository and also non-existing repository. Token can be created at:

- <https://github.com/settings/tokens>

Your test command then might look like:

```
$ GITHUB_TOKEN=<YOUR_TOKEN> python setup.py test
```

or use `export` and `unset`:

```
$ export GITHUB_TOKEN=<YOUR_TOKEN>
$ python setup.py test
...
$ unset GITHUB_TOKEN
```

For more information, enjoy reading [Betamax documentation](#).

1.6 Writing extensions

1.6.1 Hooks for extension

Table 1.1: Extension hooks

Name	Description	Return type
get_gh_event_processors	Get GitHub events processors	dict of str: list of function
get_gh_webhook_processors	Get GitHub webhook processors	dict of str: list of function
init_business	Init business layer of the extension	None
init_blueprints	Init Flask blueprints (register them)	None
init_container	Put whatever you need into DI container of the app	None
init_filters	Init Jinja2 filters for views (register them)	None
init_models	Init models (data) layer of the extension	array
introduce	Introduce yourself (just name) for the list of extensions	str
view_admin_extensions	Return view object of extension for the admin list	ExtensionView
view_admin_index_tabs	Add/edit tabs for admin index page	dict of str: ViewTab
view_core_search_tabs	Add/edit tabs for search results page	dict of str: ViewTab
view_core_user_detail_tabs	Add/edit tabs for public user page	dict of str: ViewTab
view_core_org_detail_tabs	Add/edit tabs for public organization page	dict of str: ViewTab
view_core_repo_detail_tabs	Add/edit tabs for repository detail page	dict of str: ViewTab
view_manage_dashboard_tabs	Add/edit tabs for user management zone dashboard	dict of str: ViewTab

You can write your own **repocribo** extension. It's very simple, all you need is extend the `Extension` class from `repocribo.extending`, make function returning instance of this class and direct entryptoint in the group `[repocribo.ext]` on that function. Extending is done via implementing actions on [Hooks for extension](#) which can return something.

While writing new plugin use please the same model, so even your extension is also easily extensible. Big part of core repocribo is extension itself see the module `repocribo.ext_core`.

1.6.2 my_ext.py

```

1  from repocribo.extending import Extension
2
3
4  class MyNewExtension(Extension):
5      ...
6
7
8  def make_my_new_extension():
9      ...
10     return MyNewExtension()
```

1.6.3 setup.py

```
1  from setuptools import setup
2
3  ...
4  setup(
5      ...
6      entry_points={
7          'repocribo.ext': [
8              'repocribo-my_ext = my_ext:make_my_new_extension'
9          ]
10     },
11     ...
12 )
13 ...
```

1.7 API

repocribo consists of following package(s) and it's modules:

1.7.1 repocribo.api

`repocribo.api.create_api(app, db)`

Create REST API (with GET) for resources in DB

Parameters

- **app** (`flask.Flask`) – Actual web application
- **db** – Actual database with stored resources

Returns API manager extension

Return type `flask_restless.APIManager`

Todo Implement own or go into bigger detail (privacy, usernames, etc.)

1.7.2 repocribo.commands

AssignRoleCommand

`class repocribo.commands.AssignRoleCommand(func=None)`

Bases: `flask_script.commands.Command`

Assign desired role to desired user

option_list = (`<flask_script.commands.Option object at 0x7f8a39f52cf8>`, `<flask_script.commands.Option object at 0x7f8a39f52cf8>`)

CLI command options for assign-role

run (`login`, `role_name`)

Run the assign-role command with given options in order to assign role to user

Parameters

- **login** (`str`) – Login name of desired user
- **role_name** (`str`) – Name of desired role

Raises `SystemExit` – If user does not exists or already had the role

DbCreateCommand

```
class repocribo.commands.DbCreateCommand (func=None)
    Bases: flask_script.commands.Command

    Perform procedure create all tables

    run ()
        Run the db-create command to create all tables and constraints
```

RepocheckCommand

```
class repocribo.commands.RepocheckCommand (func=None)
    Bases: flask_script.commands.Command

    Perform check procedure of repository events

    _do_check (repo)
        Perform single repository check for new events

        Parameters repo (repocribo.models.Repository) – Repository to be checked

        Todo Handle pagination of GitHub events

        Raises SystemExit – if GitHub API request fails

    _process_event (repo, event)
        Process potentially new event for repository

        Parameters
            • repo (repocribo.models.Repository) – Repository related to event
            • event (dict) – GitHub event data

        Returns If the event was new or already registered before

        Return type bool

    event2webhook = {'ReleaseEvent': 'release', 'RepositoryEvent': 'repository', 'PushEvent': 'push'}

    option_list = (<flask_script.commands.Option object at 0x7f8a39f57080>,)
        CLI command options for repocheck

    run (full_name=None)
        Run the repocheck command to check repo(s) new events

        Obviously this procedure can check events only on public repositories. If name of repository is not specified, then procedure will be called on all registered public repositories in DB.

        Parameters full_name (str) – Name of repository to be checked (if None -> all)

        Raises SystemExit – If repository with given full_name does not exist
```

1.7.3 repocribo.controllers

repocribo.controllers.admin

repocribo.controllers.admin.**account_ban** (*login*)
Ban (make inactive) account (POST handler)

repocribo.controllers.admin.**account_delete** (*login*)
Delete account (POST handler)

repocribo.controllers.admin.**account_detail** (*login*)
Account administration (GET handler)

repocribo.controllers.admin.**admin** = <flask.blueprints.Blueprint object>
Admin controller blueprint

repocribo.controllers.admin.**index** ()
Administration zone dashboard (GET handler)

repocribo.controllers.admin.**repo_delete** (*login*, *reponame*)
Delete repository (POST handler)

repocribo.controllers.admin.**repo_detail** (*login*, *reponame*)
Repository administration (GET handler)

repocribo.controllers.admin.**repo_visibility** (*login*, *reponame*)
Change repository visibility (POST handler)

repocribo.controllers.admin.**role_assignment_add** (*name*)
Assign role to user (POST handler)

repocribo.controllers.admin.**role_assignment_remove** (*name*)
Remove assignment of role to user (POST handler)

repocribo.controllers.admin.**role_create** ()
Create new role (POST handler)

repocribo.controllers.admin.**role_delete** (*name*)
Delete role (POST handler)

repocribo.controllers.admin.**role_detail** (*name*)
Role administration (GET handler)

repocribo.controllers.admin.**role_edit** (*name*)
Edit role (POST handler)

repocribo.controllers.auth

repocribo.controllers.auth.**auth** = <flask.blueprints.Blueprint object>
Auth controller blueprint

repocribo.controllers.auth.**github** ()
Redirect to GitHub OAuth gate (GET handler)

repocribo.controllers.auth.**github_callback** ()
Callback gate for GitHub OAUTH (GET handler)

repocribo.controllers.auth.**github_callback_get_account** (*db*, *gh_api*)
Processing GitHub callback action

Parameters

- **db** (`flask_sqlalchemy.SQLAlchemy`) – Database for storing GitHub user info
- **gh_api** (`repocribo.github.GitHubAPI`) – GitHub API client ready for the communication

Returns User account and flag if it's new one

Return type tuple of `repocribo.models.UserAccount`, `bool`

`repocribo.controllers.auth.logout()`
Logout currently logged user (GET handler)

repocribo.controllers.core

`repocribo.controllers.core.core = <flask.blueprints.Blueprint object>`
Core controller blueprint

`repocribo.controllers.core.index()`
Landing page (GET handler)

`repocribo.controllers.core.org_detail(login)`
Organization detail (GET handler)

Todo implement 410 (org deleted/archived/renamed)

`repocribo.controllers.core.repo_detail(login, reponame)`
Repo detail (GET handler)

`repocribo.controllers.core.repo_detail_common(db, ext_master, repo, has_secret=False)`
Repo detail (for GET handlers)

Todo implement 410 (repo deleted/archived/renamed)

`repocribo.controllers.core.repo_detail_hidden(secret)`
Hidden repo detail (GET handler)

`repocribo.controllers.core.repo_redir(login)`

`repocribo.controllers.core.search(query='')`
Search page (GET handler)

Todo more attrs, limits & pages

`repocribo.controllers.core.user_detail(login)`
User detail (GET handler)

Todo implement 410 (user deleted/archived/renamed)

repocribo.controllers.errors

`repocribo.controllers.errors.err_forbidden(error)`
Error handler for HTTP 403 - Unauthorized

`repocribo.controllers.errors.err_gone(error)`
Error handler for HTTP 410 - Gone

`repocribo.controllers.errors.err_internal(error)`
Error handler for HTTP 501 - Not Implemented

`repocribo.controllers.errors.err_not_found(error)`
Error handler for HTTP 403 - Not Found

`repocribo.controllers.errors.errors = <flask.blueprints.Blueprint object>`
Errors controller blueprint

repocribo.controllers.manage

`repocribo.controllers.manage.dashboard()`
Management zone dashboard (GET handler)

`repocribo.controllers.manage.has_good_webhook(gh_api, repo)`
Check webhook at GitHub for repo

Parameters

- **gh_api** (`repocribo.github.GitHubAPI`) – GitHub API client for communication
- **repo** (`repocribo.models.Repository`) – Repository which webhook should be checked

Returns If webhook is already in good shape

Return type bool

Todo move somewhere else, check registered events

`repocribo.controllers.manage.manage = <flask.blueprints.Blueprint object>`
Manage controller blueprint

`repocribo.controllers.manage.organizations()`
List user organizations from GitHub (GET handler)

`repocribo.controllers.manage.repo_activate(reponame)`
Activate repo in app from GitHub (POST handler)

Todo protect from activating too often

`repocribo.controllers.manage.repo_deactivate(reponame)`
Deactivate repo in app from GitHub (POST handler)

`repocribo.controllers.manage.repo_delete()`
Delete repo (in app) from GitHub (POST handler)

`repocribo.controllers.manage.repo_detail(reponame)`
Repository detail (GET handler)

`repocribo.controllers.manage.repo_update(reponame)`
Update repo info from GitHub (GET handler)

Todo protect from updating too often

`repocribo.controllers.manage.repositories()`
List user repositories from GitHub (GET handler)

`repocribo.controllers.manage.update_profile()`
Update user info from GitHub (GET handler)

Todo protect from updating too often

`repocribo.controllers.manage.update_webhook(gh_api, repo)`
Update webhook at GitHub for repo if needed

Parameters

- **gh_api** (`repocribo.github.GitHubAPI`) – GitHub API client for communication
- **repo** (`repocribo.models.Repository`) – Repository which webhook should be updated

Returns If webhook is now in good shape

Return type bool

Todo move somewhere else

repocribo.controllers.webhooks

`repocribo.controllers.webhooks.gh_webhook()`
Point for GitHub webhook msgs (POST handler)

1.7.4 repocribo.ext_core

CoreExtension

class `repocribo.ext_core.CoreExtension` (*master, app, db*)
Bases: `repocribo.extending.extension.Extension`

ADMIN_URL = None

AUTHOR = 'Marek Suchánek'
Author of core extension

CATEGORY = 'basic'
Category of core extension

GH_URL = 'https://github.com/MarekSuchanek/repocribo'
GitHub URL of core extension

HOME_URL = None

NAME = 'core'
Name of core extension

__init__ (*master, app, db*)

call (*hook_name, default, *args, **kwargs*)
Call the operation via hook name

Parameters

- **hook_name** (*str*) – Name of hook to be called
- **default** – Default return value if hook operation not found
- **args** – Positional args to be passed to the hook operation
- **kwargs** – Keywords args to be passed to the hook operation

Returns Result of the operation on the requested hook

static `get_gh_event_processors()`
Get all GitHub events processors

static `get_gh_webhook_processors()`
Get all GitHub webhooks processor

init_blueprints()
Hook operation for initiating the blueprints and registering them within repocribo Flask app

init_business()
Init business layer (other extensions, what is needed)

init_container()
Init service DI container of the app

init_filters()
Hook operation for initiating the Jinja filters and registering them within Jinja env of repocribo Flask app

init_models()
Hook operation for initiating the models and registering them within db

introduce()
Hook operation for getting short introduction of extension (mostly for debug/log purpose)

Returns Name of the extension

Return type str

static provide_blueprints()

static provide_filters()

static provide_models()

register_blueprints_from_list(blueprints)
Registering Flask blueprints to the app

Parameters blueprints (list of flask.blueprint) – List of Flask blueprints to be registered

register_filters_from_dict(filters)
Registering functions as Jinja filters

Parameters filters (dict of str: function) – Dictionary where key is name of filter and value is the function serving as filter

view_admin_extensions()
Hook operation for getting view model of the extension in order to show it in the administration of app

Returns Extensions view for this extension

Return type repocribo.extending.helpers.ExtensionView

view_admin_index_tabs(tabs_dict)
Prepare tabs for index view of admin controller

Parameters tabs_dict (dict of str: repocribo.extending.helpers.ViewTab) – Target dictionary for tabs

view_core_org_detail_tabs(org, tabs_dict)
Prepare tabs for org detail view of core controller

Parameters

- **org** (repocribo.models.Organization) – Organization which details should be shown
- **tabs_dict** (dict of str: repocribo.extending.helpers.ViewTab) – Target dictionary for tabs

view_core_repo_detail_tabs(repo, tabs_dict)
Prepare tabs for repo detail view of core controller

Parameters

- **repo** (`repocribo.models.Repository`) – Repository which details should be shown
- **tabs_dict** (dict of str: `repocribo.extending.helpers.ViewTab`) – Target dictionary for tabs

view_core_search_tabs (*query, tabs_dict*)

Prepare tabs for search view of core controller

Parameters

- **query** (*str*) – Fulltext query for the search
- **tabs_dict** (dict of str: `repocribo.extending.helpers.ViewTab`) – Target dictionary for tabs

view_core_user_detail_tabs (*user, tabs_dict*)

Prepare tabs for user detail view of core controller

Parameters

- **user** (`repocribo.models.User`) – User which details should be shown
- **tabs_dict** (dict of str: `repocribo.extending.helpers.ViewTab`) – Target dictionary for tabs

view_manage_dashboard_tabs (*tabs_dict*)

Prepare tabs for dashboard view of manage controller

Parameters **tabs_dict** (dict of str: `repocribo.extending.helpers.ViewTab`) – Target dictionary for tabs

make_extension

`repocribo.ext_core.make_extension(*args, **kwargs)`

Alias for instantiating the extension

Actually not needed, just example that here can be something more complex to do before creating the extension.

1.7.5 repocribo.extending

Extension

class `repocribo.extending.Extension` (*master, app, db*)

Bases: `object`

Generic **repocribo** extension class

It serves as base extension which does nothing but has prepared all the attributes and methods needed. Particular real extensions can override those attributes and methods to make so behavior and extend repocribo. It also provides some useful methods to those subclasses.

ADMIN_URL = `None`

Administration URL within site (best via `url_for`)

AUTHOR = `''`

Author(s) of extension

CATEGORY = ‘

Category of extension (basic, security, data, ...)

GH_URL = None

GitHub url of extension project

HOME_URL = None

Homepage url of extension (rtd, pocoo, ...)

NAME = ‘unknown’

Name of extension

__init__ (*master, app, db*)

Initiates the basic two parts of repocribo - flask app and DB

Parameters

- **master** (`ExtensionsMaster`) – Master for this extension
- **app** (`flask.Flask`) – Flask application of repocribo
- **db** (`flask_sqlalchemy.SQLAlchemy`) – SQLAlchemy database of repocribo
- **args** – not used
- **kwargs** – not used

call (*hook_name, default, *args, **kwargs*)

Call the operation via hook name

Parameters

- **hook_name** (*str*) – Name of hook to be called
- **default** – Default return value if hook operation not found
- **args** – Positional args to be passed to the hook operation
- **kwargs** – Keywords args to be passed to the hook operation

Returns Result of the operation on the requested hook

init_blueprints ()

Hook operation for initiating the blueprints and registering them within repocribo Flask app

init_filters ()

Hook operation for initiating the Jinja filters and registering them within Jinja env of repocribo Flask app

init_models ()

Hook operation for initiating the models and registering them within db

introduce ()

Hook operation for getting short introduction of extension (mostly for debug/log purpose)

Returns Name of the extension

Return type `str`

static provide_blueprints ()

Extension can provide Flask blueprints to the app by this method

Returns List of Flask blueprints provided by extension

Return type list of `flask.blueprint`

static provide_filters ()

Extension can provide Jinja filters to the app by this method

Returns Dictionary with name + function/filter pairs

Return type dict of str: function

static provide_models ()

Extension can provide (DB) models to the app by this method

Returns List of models provided by extension

Return type list of db.Model

register_blueprints_from_list (blueprints)

Registering Flask blueprints to the app

Parameters blueprints (list of flask.blueprint) – List of Flask blueprints to be registered

register_filters_from_dict (filters)

Registering functions as Jinja filters

Parameters filters (dict of str: function) – Dictionary where key is name of filter and value is the function serving as filter

view_admin_extensions ()

Hook operation for getting view model of the extension in order to show it in the administration of app

Returns Extensions view for this extension

Return type repocribo.extending.helpers.ExtensionView

ExtensionsMaster

class repocribo.extending.**ExtensionsMaster** (*args, **kwargs)

Bases: object

Collector & master of Extensions

Extension master finds and holds all the **repocribo** extensions and is used for calling operations on them and collecting the results.

ENTRYPOINT_GROUP = 'repocribo.ext'

String used for looking up the extensions

LOAD_ERROR_MSG = 'Extension "{}" ({}) is not making an Extension (sub)class instance. It will be ignored!'

Error message mask for extension load error

__init__ (*args, **kwargs)

Collects all the extensions to be maintained by this object

Parameters

- **args** – positional args to be passed to extensions
- **kwargs** – keywords args to be passed to extensions

Todo there might be some problem with ordering of extensions

classmethod **_collect_extensions** (name=None)

Method for selecting extensions within ENTRYPOINT_GROUP

Parameters name (str) – Can be used to select single entrypoint/extension

Returns Generator of selected entry points

Return type pkg_resources.WorkingSet.iter_entry_points

call (*hook_name*, *default=None*, *args, **kwargs)

Call the hook on all extensions registered

Parameters

- **hook_name** (*str*) – Name of hook to be called
- **default** – Default return value if hook operation not found
- **args** – Positional args to be passed to the hook operation
- **kwargs** – Keywords args to be passed to the hook operation

Returns Result of the operation on the requested hook

repocribo.extending.helpers.views

repocribo.extending.helpers.views.ViewTab

class repocribo.extending.helpers.views.**ViewTab** (*id*, *name*, *priority=100*, *content=''*, *octicon=None*, *badge=None*)

Bases: object

Tab for the tabbed view at pages

__init__ (*id*, *name*, *priority=100*, *content=''*, *octicon=None*, *badge=None*)

__lt__ (*other*)

repocribo.extending.helpers.views.Badge

class repocribo.extending.helpers.views.**Badge** (*content*)

Bases: object

Simple Twitter Bootstrap badge representation

__init__ (*content*)

repocribo.extending.helpers.views.ExtensionView

class repocribo.extending.helpers.views.**ExtensionView** (*name*, *category*, *author*, *admin_url=None*, *home_url=None*, *gh_url=None*)

Bases: object

View object for extensions

__init__ (*name*, *category*, *author*, *admin_url=None*, *home_url=None*, *gh_url=None*)

static from_class ()

Make view from Extension class

1.7.6 repocribo.manage

repocribo.manage.**run** ()

Run the CLI manager for the web application

Todo allow extension add options & commands, separate create and run part of function

1.7.7 repocribo.models

Mixins

Anonymous

class repocribo.models.**Anonymous**

Bases: flask_login.mixins.AnonymousUserMixin

Anonymous (not logged) user representation

has_role (*role*)

Check whether has the role

Parameters **role** (repocribo.models.RoleMixin) – Role to be checked

Returns False, anonymous has no roles

Return type bool

is_active

Check whether is user active

Returns False, anonymous is not active

Return type bool

owns_repo (*repo*)

Check if user owns the repository

Parameters **repo** (repocribo.models.Repository) – Repository which should be tested

Returns False, anonymous can not own repository

Return type bool

rolenames

Get names of all roles of that user

Returns Empty list, anonymous has no roles

Return type list of str

sees_repo (*repo*, *has_secret=False*)

Check if user is allowed to see the repo

Anonymous can see only public repos

Parameters

- **repo** (repocribo.models.Repository) – Repository which user want to see
- **has_secret** (*bool*) – If current user knows the secret URL

Returns If user can see repo

Return type bool

RoleMixin

class repocribro.models.**RoleMixin**

Bases: object

Mixin for models representing roles

__eq__ (*other*)

Equality of roles is based on names

Parameters **other** (repocribro.models.RoleMixin or str) – Role or its name to be compared with

Returns If names are equal

Return type bool

__hash__ ()

Standard hashing via name

Returns Hash of role

Return type int

__ne__ (*other*)

Inequality of roles is based on names

Parameters **other** (repocribro.models.RoleMixin or str) – Role or its name to be compared with

Returns If names are not equal

Return type bool

SearchableMixin

class repocribro.models.**SearchableMixin**

Bases: object

Mixin for models that support fulltext query

classmethod **fulltext_query** (*query_str*, *db_query*)

Add fulltext filter to the DB query

Parameters

- **query_str** (*str*) – String to be queried
- **db_query** (sqlalchemy.orm.query.Query) – Database query object

Returns Query with fulltext filter added

Return type sqlalchemy.orm.query.Query

UserMixin

class repocribro.models.**UserMixin**

Bases: flask_login.mixins.UserMixin

has_role (*role*)

Check whether has the role

Parameters `role` (*str*) – Role to be checked

Returns If user has a role

Return type bool

is_active

Check whether is user active

Returns If user is active (can login)

Return type bool

owns_repo (*repo*)

Check if user owns the repository

Parameters `repo` (`repocribo.models.Repository`) – Repository which should be tested

Returns If user owns repo

Return type bool

rolenames

Get names of all roles of that user

Returns List of names of roles of user

Return type list of str

sees_repo (*repo*, *has_secret=False*)

Check if user is allowed to see the repo

Must be admin or owner to see not public repo

Parameters

- **repo** (`repocribo.models.Repository`) – Repository which user want to see
- **has_secret** (*bool*) – If current user knows the secret URL

Returns If user can see repo

Return type bool

Models

Commit

class `repocribo.models.Commit` (*sha*, *message*, *author_name*, *author_email*, *distinct*, *push*)

Bases: `flask_sqlalchemy.Model`, `repocribo.models.SearchableMixin`

Commit from GitHub

__init__ (*sha*, *message*, *author_name*, *author_email*, *distinct*, *push*)

__repr__ ()

Standard string representation of DB object

Returns Unique string representation

Return type str

_sa_class_manager = <ClassManager of <class 'repocribo.models.Commit'> at 7f8a39c21b88>

author_email

The git author's email address.

author_name

The git author's name.

static create_from_dict (*commit_dict, push*)

Create new commit from GitHub and additional data

Parameters

- **commit_dict** (*dict*) – GitHub data containing commit
- **push** (`repocribo.models.Push`) – Push where this commit belongs

Returns Created new commit

Return type `repocribo.models.Commit`

Todo verify, there are some conflict in GitHub docs

distinct

Whether this commit is distinct from any that have been pushed before.

id

Unique identifier of the commit

message

The commit message.

push

Push where the commit belongs to

push_id

ID of push where the commit belongs to

sha

The SHA of the commit.

Organization

class repocribo.models.Organization (*github_id, login, email, name, company, location, description, blog_url, avatar_url*)

Bases: `repocribo.models.RepositoryOwner`, `repocribo.models.SearchableMixin`

Organization from GitHub

__init__ (*github_id, login, email, name, company, location, description, blog_url, avatar_url*)

__repr__ ()

Standard string representation of DB object

Returns Unique string representation

Return type `str`

_sa_class_manager = <ClassManager of <class 'repocribo.models.Organization'> at 7f8a39cccb38>

avatar_url

blog_url

company

static create_from_dict (*org_dict*)

Create new organization from GitHub data

Parameters *org_dict* (*dict*) – GitHub data containing organization

Returns Created new organization

Return type `repocribo.models.Organization`

description

email

github_id

id

location

login

name

repositories

type

Push

class `repocribo.models.Push`(*github_id*, *ref*, *after*, *before*, *size*, *distinct_size*, *timestamp*,
sender_login, *sender_id*, *repository*)

Bases: `flask_sqlalchemy.Model`, `repocribo.models.SearchableMixin`

Push from GitHub

__init__ (*github_id*, *ref*, *after*, *before*, *size*, *distinct_size*, *timestamp*, *sender_login*, *sender_id*, *repository*)

__repr__ ()

Standard string representation of DB object

Returns Unique string representation

Return type `str`

_sa_class_manager = <ClassManager of <class 'repocribo.models.Push'> at 7f8a39c216d8>

after

The SHA of the most recent commit on ref after the push. (HEAD)

before

The SHA of the most recent commit on ref before the push.

commits

Commits within this push

static create_from_dict (*push_dict*, *sender_dict*, *repo*, *timestamp=None*)

Create new push from GitHub and additional data

This also creates commits of this push

Parameters

- **push_dict** (*dict*) – GitHub data containing push
- **sender_dict** (*dict*) – GitHub data containing sender

- **repo** (`repocribro.models.Repository`) – Repository where this push belongs

Returns Created new push

Return type `repocribro.models.Push`

distinct_size

The number of distinct commits in the push.

github_id

GitHub Push ID

id

Unique identifier of the push

ref

The full Git ref that was pushed.

repository

Repository where push belongs to

repository_id

ID of the repository where push belongs to

sender_id

ID of the sender

sender_login

Login of the sender

size

The number of commits in the push.

timestamp

Timestamp of push (when it was registered)

Role

class `repocribro.models.Role` (*name, description*)

Bases: `flask_sqlalchemy.Model`, `repocribro.models.RoleMixin`

User account role in the application

__init__ (*name, description*)

__repr__ ()

Standard string representation of DB object

Returns Unique string representation

Return type `str`

_sa_class_manager = <ClassManager of <class 'repocribro.models.Role'> at 7f8a39cb9c28>

description

Description (purpose, notes, ...) of the role

id

Unique identifier of the role

name

Unique name of the role

user_accounts

User accounts assigned to the role

Release

```
class repocribo.models.Release(github_id, tag_name, created_at, published_at, url, prerelease, draft, name, body, author_id, author_login, sender_login, sender_id, repository)
```

Bases: flask_sqlalchemy.Model, [repocribo.models.SearchableMixin](#)

Release from GitHub

```
__init__(github_id, tag_name, created_at, published_at, url, prerelease, draft, name, body, author_id, author_login, sender_login, sender_id, repository)
```

```
__repr__()
```

Standard string representation of DB object

Returns Unique string representation

Return type str

```
_sa_class_manager = <ClassManager of <class 'repocribo.models.Release'> at 7f8a39c40138>
```

author_id

ID of author

author_login

Login of author

body

Body with some description

```
static create_from_dict(release_dict, sender_dict, repo)
```

Create new release from GitHub and additional data

Parameters

- **release_dict** (*dict*) – GitHub data containing release
- **sender_dict** (*dict*) – GitHub data containing sender
- **repo** ([repocribo.models.Repository](#)) – Repository where this release belongs

Returns Created new release

Return type [repocribo.models.Release](#)

created_at

Timestamp when the release was created

draft

Flag if it's just a draft

github_id

GitHub unique identifier

id

Unique identifier of the release

name

Name

prerelease
Flag if it's just a prerelease

published_at
Timestamp when the release was published

repository
Repository where release belongs to

repository_id
ID of the repository where release belongs to

sender_id
ID of sender

sender_login
Login of sender

tag_name
Tag of the release

url
URL to release page

Repository

```
class repocribro.models.Repository(github_id, fork_of, full_name, name, languages, url, de-
                                   scription, private, webhook_id, owner, visibility_type, se-
                                   cret=None)
Bases: flask_sqlalchemy.Model, repocribro.models.SearchableMixin
Repository from GitHub
VISIBILITY_HIDDEN = 2
    Constant representing hidden visibility within app
VISIBILITY_PRIVATE = 1
    Constant representing private visibility within app
VISIBILITY_PUBLIC = 0
    Constant representing public visibility within app
__init__(github_id, fork_of, full_name, name, languages, url, description, private, webhook_id,
          owner, visibility_type, secret=None)
__repr__()
    Standard string representation of DB object
    Returns Unique string representation
    Return type str
_sa_class_manager = <ClassManager of <class 'repocribro.models.Repository'> at 7f8a39c21278>
static create_from_dict(repo_dict, owner, webhook_id=None, visibility_type=0, secret=None)
    Create new repository from GitHub and additional data
    Parameters
    • repo_dict (dict) – GitHub data containing repository
    • owner (repocribro.model.RepositoryOwner) – Owner of this repository
    • webhook_id (int) – ID of registered webhook (if available)
```

- **visibility_type** (*int*) – Visibility type within app (default: public)
- **secret** (*str*) – Secret for hidden URL (if available)

Returns Created new repository

Return type `repocribo.models.Repository`

Todo work with fork_of somehow

description

events_updated ()

Set that now was performed last events update of repo

Todo How about some past events before adding to app?

fork_of

GitHub id of repository which this is fork of

full_name

Full name (owner login + repository name)

generate_secret ()

Generate new unique secret code for repository

github_id

GitHub unique identifier

id

Unique identifier of the repository

is_hidden

Check if repository is hidden within app

is_private

Check if repository is private within app

is_public

Check if repository is public within app

languages

last_event

static make_full_name (*login, reponame*)

Create full name from owner login name and repository name

Parameters

- **login** (*str*) – Owner login
- **reponame** (*str*) – Name of repository (without owner login)

Returns Full name of repository

Return type `str`

name

owner

Owner of repository

owner_id

owner_login

Get owner login from full name of repository

Returns Owner login

Return type str

private

pushes

Registered pushes to repository

releases

Registered releases for repository

secret

update_from_dict (*repo_dict*)

Update repository attributes from GitHub data dict

Parameters **repo_dict** (*dict*) – GitHub data containing repository

url

visibility_type

webhook_id

User

```
class repocribo.models.User(github_id, login, email, name, company, location, bio, blog_url,
                             avatar_url, hireable, user_account)
```

Bases: `repocribo.models.RepositoryOwner`, `repocribo.models.SearchableMixin`

User from GitHub

```
__init__(github_id, login, email, name, company, location, bio, blog_url, avatar_url, hireable,
          user_account)
```

```
__repr__()
```

Standard string representation of DB object

Returns Unique string representation

Return type str

```
_sa_class_manager = <ClassManager of <class 'repocribo.models.User'> at 7f8a39ccc5e8>
```

avatar_url

blog_url

company

```
static create_from_dict(user_dict, user_account)
```

Create new user from GitHub data and related user account

Parameters

- **user_dict** (*dict*) – GitHub data containing user
- **user_account** (`repocribo.models.UserAccount`) – User account in app for GH user

Returns Created new user

Return type `repocribo.models.User`

description

email
github_id
hireable
 Flag whether is user hireable
id
location
login
name
repositories
type
update_from_dict (*user_dict*)
 Update user from GitHub data
 Parameters **user_dict** (*dict*) – GitHub data containing user
user_account
 User's account within app
user_account_id
 ID of user's account within app

UserAccount

```
class repocribo.models.UserAccount (**kwargs)
```

Bases: flask_sqlalchemy.Model, *repocribo.models.UserMixin*, *repocribo.models.SearchableMixin*
 UserAccount in the repocribo app

```
__init__ (**kwargs)
```

A simple constructor that allows initialization from kwargs.
 Sets attributes on the constructed instance using the names and values in kwargs.
 Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
__repr__ ()
```

Standard string representation of DB object
Returns Unique string representation
Return type str

```
_sa_class_manager = <ClassManager of <class 'repocribo.models.UserAccount'> at 7f8a39ca7868>
```

active
 Flag if the account is active or banned
created_at
 Timestamp where account was created
github_user
 Relation to the GitHub user connected to account

id
Unique identifier of the user account

login
Get login name for user account from related GH user

Returns Login name

Return type str

roles
Roles assigned to the user account

1.7.8 repocribo.repocribo

repocribo.repocribo.**AUTHOR** = 'Marek Suchánek'
Author of the application

repocribo.repocribo.**DEFAULT_CONFIG_FILES** = ['config/app.cfg', 'config/auth.cfg', 'config/db.cfg']
Paths to default configuration files

class repocribo.repocribo.**DI_Container**
Simple container of services for web app

Variables

- **factories** – Factories of services
- **singletons** – Singletons (shared objects) of services

__init__()
Prepare dict for storing services and factories

get (*what*, **args*, ***kwargs*)
Retrieve service from the container

Parameters

- **what** (*str*) – Name of the service to get
- **args** – Positional arguments passed to factory
- **kwargs** – Keyword arguments passed to factory

Returns The service or None

set_factory (*name*, *factory*)
Set service factory (callable for creating instances)

Parameters

- **name** (*str*) – Name of the service
- **factory** (*callable*) – Function or callable object creating service instance

set_singleton (*name*, *singleton*)
Set service as singleton (shared object)

Parameters

- **name** (*str*) – Name of the service
- **singleton** (*object*) – The object to be shared as singleton

repocribo.repocribo.**PROG_NAME** = 'repocribo'
Name of the application

```
repocribo.repocribo.RELEASE = '0.1'
```

Actual release tag

```
class repocribo.repocribo.Repocribo
```

Repocribo is Flask web application

Variables `container` – Service container for the app

```
__init__()
```

Setup Flask app and prepare service container

```
repocribo.repocribo.VERSION = '0.1'
```

Actual version

```
repocribo.repocribo.create_app(cfg_files='DEFAULT')
```

Factory for making the web Flask application

Parameters `cfg_files` – Single or more config file(s)

Returns Constructed web application

Return type `repocribo.repocribo.Repocribo`

1.7.9 repocribo.security

```
class repocribo.security.Permissions
```

Class for providing various permissions

Todo allow extensions provide permissions to others

```
__dict__ = mappingproxy({'admin_role': <Permission needs={Need(method='role', value='admin')} excludes=set()>, 'role': <Permission needs={Need(method='role', value='role')} excludes=set()>})
```

```
__module__ = 'repocribo.security'
```

```
__weakref__
```

list of weak references to the object (if defined)

```
admin_role = <Permission needs={Need(method='role', value='admin')} excludes=set()>
```

Administrator role permission

```
repocribo.security.clear_session(*args)
```

Simple helper for clearing variables from session

Parameters `args` – names of session variables to remove

```
repocribo.security.init_login_manager(db)
```

Init security extensions (login manager and principal)

Parameters `db` (`flask_sqlalchemy.SQLAlchemy`) – Database which stores user accounts and roles

Returns Login manager and principal extensions

Return type (`flask_login.LoginManager`, `flask_principal.Principal`)

```
repocribo.security.login(user_account)
```

Login desired user into the app

Parameters `user_account` (`repocribo.models.UserAccount`) – User account to be logged in

```
repocribo.security.logout()
```

Logout the current user from the app

`repocribo.security.on_identity_loaded(sender, identity)`

Principal helper for loading the identity of logged user

Parameters

- **sender** – Sender of the signal
- **identity** (`flask_principal.Identity`) – Identity container

`repocribo.security.permissions = <repocribo.security.Permissions object>`

All permissions in the app

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