
Flask-Blogging Documentation

Release 0.1.0

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Flask-Blogging is a Flask extension for adding Markdown based blog support to your site. It provides a flexible mechanism to store the data in the database of your choice. It is meant to work with the authentication provided by packages such as [Flask-Login](#) or [Flask-Security](#).

The philosophy behind this extension is to provide a lean app based on Markdown to provide blog support to your existing web application. This is contrary to some other packages such as [Flask-Blog](#) that are just blogs. If you already have a web app and you need to have a blog to communicate with your user or to promote your site through content based marketing, then Flask-Blogging would help you quickly get a blog up and running.

Out of the box, Flask-Blogging has support for the following:

- Bootstrap based site
- Markdown based blog editor
- Models to store blog
- Authentication of User's choice
- Sitemap, ATOM support
- Disqus support for comments
- Google analytics for usage tracking
- Permissions enabled to control which users can create/edit blogs
- Well documented, tested, and extensible design

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Quick Start Example

```
from flask import Flask, render_template_string, redirect
from sqlalchemy import create_engine
from flask.ext.login import UserMixin, LoginManager, \
    login_user, logout_user
from flask.ext.blogging import SQLAlchemyStorage, BloggingEngine

app = Flask(__name__)
app.config["SECRET_KEY"] = "secret" # for WTF-forms and login
app.config["BLOGGING_URL_PREFIX"] = "/blog"
app.config["BLOGGING_DISQUS_SITENAME"] = "test"
app.config["BLOGGING_SITEURL"] = "http://localhost:8000"

# extensions
engine = create_engine('sqlite:///tmp/blog.db')
sql_storage = SQLAlchemyStorage(engine)
blog_engine = BloggingEngine(app, sql_storage)
login_manager = LoginManager(app)

# user class for providing authentication
class User(UserMixin):
    def __init__(self, user_id):
        self.id = user_id

    def get_name(self):
        return "Paul Dirac" # typically the user's name

@login_manager.user_loader
@blog_engine.user_loader
def load_user(user_id):
    return User(user_id)

index_template = """
<!DOCTYPE html>
<html>
    <head> </head>
    <body>
        {% if current_user.is_authenticated() %}
            <a href="/logout/">Logout</a>
        {% else %}
            <a href="/login/">Login</a>
        {% endif %}
        &nbsp;&nbsp;<a href="/blog/">Blog</a>
        &nbsp;&nbsp;<a href="/blog/sitemap.xml">Sitemap</a>
    
```

```
        &nbsp;&nbsp;<a href="/blog/feeds/all.atom.xml">ATOM</a>
    </body>
</html>
"""

@app.route("/")
def index():
    return render_template_string(index_template)

@app.route("/login/")
def login():
    user = User("testuser")
    login_user(user)
    return redirect("/blog")

@app.route("/logout/")
def logout():
    logout_user()
    return redirect("/")

if __name__ == "__main__":
    app.run(debug=True, port=8000, use_reloader=True)
```

The key components required to get the blog hooked is explained below.

Configuring your Application

The *BloggingEngine* class is the gateway to configure blogging support to your web app. You should create the *BloggingEngine* instance like this:

```
blogging_engine = BloggingEngine()
```

You also need to pick the storage for blog. That can be done as:

```
from sqlalchemy import create_engine

engine = create_engine("sqlite:///tmp/sqlite.db")
storage = SQLAStorage(engine)
```

Once you have created the blogging engine and the storage, you can connect with your app using the *init_app* method as shown below:

```
blogging_engine.init_app(app, storage)
```

Flask-Blogging lets the developer pick the authentication that is suitable, and hence requires her to provide a way to load user information. You will need to provide a *BloggingEngine.user_loader* callback. This callback is used to load the user from the *user_id* that is stored for each blog post. Just as in Flask-Login, it should take the *unicode user_id* of a user, and return the corresponding user object. For example:

```
@blogging_engine.user_loader
def load_user(userid):
    return User.get(userid)
```

For the blog to have a readable display name, the *User* class must implement either the *get_name* method or the *__str__* method.

The *BloggingEngine* accepts an optional *extensions* argument. This is a list of Markdown extensions objects to be used during the markdown processing step.

The *BloggingEngine* also accepts *post_processor* argument, which can be used to provide a custom post processor object to handle the processing of Markdown text. An ideal way to do this would be to inherit the default *PostProcessor* object and override custom methods. There is a *custom_process* method that can be overridden to add extra functionality to the post processing step.

Configuration Variables

The Flask-Blogging extension can be configured by setting the following app config variables. These arguments are passed to all the views. The keys that are currently supported include:

- `BLOGGING_SITENAME` (*str*): The name of the blog to be used as the brand name. This is also used in the feed heading. (default “Flask-Blogging”)
- `BLOGGING_SITEURL` (*str*): The url of the site.
- `BLOGGING_RENDER_TEXT` (*bool*): Value to specify if the raw text should be rendered or not. (default `True`)
- `BLOGGING_DISQUS_SITENAME` (*str*): Disqus sitename for comments. A `None` value will disable comments. (default `None`)
- `BLOGGING_GOOGLE_ANALYTICS` (*str*): Google analytics code for usage tracking. A `None` value will disable google analytics. (default `None`)
- `BLOGGING_URL_PREFIX` (*str*) : The prefix for the URL of blog posts. A `None` value will have no prefix (default `None`).
- `BLOGGING_FEED_LIMIT` (*int*): The number of posts to limit to in the feed. If `None`, then all are shown, else will be limited to this number. (default `None`)
- `BLOGGING_PERMISSIONS` (*bool*): if `True`, this will enable permissions for the blogging engine. With permissions enabled, the user will need to have “blogger” `Role` to edit or create blog posts. Other authenticated users will not have blog editing permissions. The concepts here derive from `Flask-Principal` (default `False`)
- **`BLOGGING_POSTS_PER_PAGE` (*int*): This sets the default number of pages to be displayed per page.** (default 10)

Blog Views

There are various views that are exposed through Flask-Blogging. The URL for the various views are:

- `url_for('blogging.index')` (GET): The index blog posts with the first page of articles.
- `url_for('blogging.page_by_id', post_id=<post_id>)` (GET): The blog post corresponding to the `post_id` is retrieved.
- `url_for('blogging.posts_by_tag', tag=<tag_name>)` (GET): The list of blog posts corresponding to `tag_name` is returned.
- `url_for('blogging.posts_by_author', user_id=<user_id>)` (GET): The list of blog posts written by the author `user_id` is returned.
- `url_for('blogging.editor')` (GET, POST): The blog editor is shown. This view needs authentication and permissions (if enabled).
- `url_for('blogging.delete', post_id=<post_id>)` (POST): The blog post given by `post_id` is deleted. This view needs authentication and permissions (if enabled).
- `url_for('blogging.sitemap')` (GET): The sitemap with a link to all the posts is returned.
- `url_for('blogging.feed')` (GET): Returns ATOM feed URL.

The view can be easily customised by the user by overriding with their own templates. The template pages that need to be customized are:




- `blogging/index.html`: The blog index page used to serve index of posts, posts by tag, and posts by author
- `blogging/editor.html`: The blog editor page.
- `blogging/page.html`: The page that shows the given article.
- `blogging/sitemap.xml`: The sitemap for the blog posts.

Permissions

In version 0.3.0 Flask-Blogging, enables permissions based on Flask-Principal. This addresses the issue of controlling which of the authenticated users can have access to edit or create blog posts. Permissions are enabled by setting `BLOGGING_PERMISSIONS` to `True`. Only users that have access to Role “blogger” will have permissions to create or edit blog posts.

Screenshots

6.1 Blog Page

 Delete
  Edit
  New


Dirac Equation

Posted by *Paul Dirac* on 03 Jun, 2015



In particle physics, the Dirac equation is a relativistic wave equation derived by British physicist Paul Dirac in 1928. In its free form, or including electromagnetic interactions, it describes all spin-1/2 massive particles, for which parity is a symmetry, such as electrons and quarks, and is consistent with both the principles of quantum mechanics and the theory of special relativity,[1] and was the first theory to account fully for special relativity in the context of quantum mechanics.

Dirac's Equation is given as:


$$(\beta mc^2 + c(\alpha_1 p_1 + \alpha_2 p_2 + \alpha_3 p_3)) \psi(x, t) = i\hbar \frac{\partial \psi(x, t)}{\partial t}$$



PHYSICS


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6.2 Blog Editor

Title

Dirac Equation

Useful Tips

- **Postgres using psycopg2:** If you use psycopg2 driver for Postgres while using the SQLAlchemy you would need to have autocommit turned on while creating the engine:

```
create_engine("postgresql+psycopg2://postgres:@localhost/flask_blogging",
              isolation_level="AUTOCOMMIT")
```

- **Migrations with Alembic:** If you have migrations part of your project using Alembic, or extensions such as Flask-Migrate which uses Alembic, then you have to modify the Alembic configuration in order for it to ignore the Flask-Blogging related tables. If you don't set these modifications, then every time you run migrations, Alembic will not recognize the tables and mark them for deletion. And if you happen to upgrade by mistake then all your blog tables will be deleted. What we will do here is ask Alembic to exclude the tables used by Flask-Blogging. In your alembic.ini file, add a line:

```
[alembic:exclude]
tables = tag, post, tag_posts, user_posts
```

If you have a value set for table_prefix argument while creating the SQLAlchemy, then the table names will contain that prefix in their names. In which case, you have to use appropriate names in the table names.

And in your env.py, we have to mark these tables as the ones to be ignored.

```
def exclude_tables_from_config(config_):
    tables_ = config_.get("tables", None)
    if tables_ is not None:
        tables = tables_.split(",")
    return tables

exclude_tables = exclude_tables_from_config(config.get_section('alembic:exclude'))

def include_object(object, name, type_, reflected, compare_to):
    if type_ == "table" and name in exclude_tables:
        return False
    else:
        return True

def run_migrations_online():
    """Run migrations in 'online' mode.

    In this scenario we need to create an Engine
    and associate a connection with the context.

    """
    engine = engine_from_config(
```

```
        config.get_section(config.config_ini_section),
        prefix='sqlalchemy.',
        poolclass=pool.NullPool)

connection = engine.connect()
context.configure(
    connection=connection,
    target_metadata=target_metadata,
    include_object=include_object,
    compare_type=True
)

try:
    with context.begin_transaction():
        context.run_migrations()
finally:
    connection.close()
```

In the above, we are using `include_object` in `context.configure(...)` to be specified based on the `include_object` function.

Release Notes

- **Version 0.3.0:**

Released July 11, 2015

- Permissions is a new feature introduced in this version. By setting `BLOGGING_PERMISSIONS` to `True`, one can restrict which of the users can create, edit or delete posts.
- Added `BLOGGING_POSTS_PER_PAGE` configuration variable to control the number of posts in a page.
- Documented the url construction procedure.

- **Version 0.2.1:**

Released July 10, 2015

- `BloggingEngine init_app` method can be called without having to pass a storage object.
- Hook tests to `setup.py` script.

- **Version 0.2.0:**

Released July 6, 2015

- `BloggingEngine` configuration moved to the app config setting. This breaks backward compatibility. See compatibility notes below.
- Added ability to limit number of posts shown in the feed through app configuration setting.
- The `setup.py` reads version from the module file. Improves version consistency.

- **Version 0.1.2:**

Released July 4, 2015

- Added Python 3.4 support

- **Version 0.1.1:**

Released June 15, 2015

- Fixed PEP8 errors
- Expanded `SQLAStorage` to include Postgres and MySQL flavors
- Added `post_date` and `last_modified_date` as arguments to the `Storage.save_post(...)` call for general compatibility

- **Version 0.1.0:**

Released June 1, 2015

- Initial Release
- Adds detailed documentation
- Supports Markdown based blog editor
- Has 90% code coverage in unit tests

Compatibility Notes

- **Version 0.3.0:**

In this release, the templates folder was renamed from `blog` to `blogging`. To override the existing templates, you will need to create your templates in the `blogging` folder.

- **Version 0.2.0:**

In this version, `BloggineEngine` will no longer take `config` argument. Instead, all configuration can be done through app config variables. Another `BloggineEngine` parameter, `url_prefix` is also available only through config variable.

API Documentation

10.1 Module contents

10.2 Submodules

10.3 flask_blogging.engine module

The BloggingEngine module.

```
class flask_blogging.engine.BloggingEngine (app=None, storage=None,  
                                           post_processor=None, extensions=None)
```

Bases: object

The BloggingEngine is the class for initializing the blog support for your web app. Here is an example usage:

```
from flask import Flask
from flask.ext.blogging import BloggingEngine, SQLAStorage
from sqlalchemy import create_engine

app = Flask(__name__)
db_engine = create_engine("sqlite:///tmp/sqlite.db")
storage = SQLAStorage(db_engine)
blog_engine = BloggingEngine(app, storage)
```

```
__init__(app=None, storage=None, post_processor=None, extensions=None)
```

Parameters

- **app** (*object*) – Optional app to use
- **storage** (*object*) – The blog storage instance that implements the Storage class interface.
- **post_processor** (*object*) – (optional) The post processor object. If none provided, the default post processor is used.
- **extensions** (*list*) – A list of markdown extensions to add to post processing step.

Returns

blogger_permission

```
init_app (app, storage=None)
```

Initialize the engine.

Parameters

- **app** – The app to use
- **storage** – The blog storage instance that implements the `Storage` class interface.

is_user_blogger()

user_loader(*callback*)

The decorator for loading the user.

Parameters **callback** – The callback function that can load a user given a unicode `user_id`.

Returns The callback function

10.4 flask_blogging.processor module

class flask_blogging.processor.**PostProcessor**

Bases: `object`

classmethod **all_extensions**()

classmethod **construct_url**(*post*)

static **create_slug**(*title*)

classmethod **custom_process**(*post*)

Override this method to add additional processes. The result is that the `post` dict is modified or enhanced with newer key value pairs.

Parameters **post** (*dict*) – The post data with values for keys such as title, text, tags etc.

classmethod **process**(*post*, *render=True*)

This method takes the post data and renders it :param post: :param render: :return:

classmethod **render_text**(*post*)

classmethod **set_custom_extensions**(*extensions*)

10.5 flask_blogging.sqlastorage module

class flask_blogging.sqlastorage.**SQLAStorage**(*engine*, *table_prefix=''*)

Bases: `flask_blogging.storage.Storage`

The `SQLAStorage` implements the interface specified by the `Storage` class. This class uses SQLAlchemy to implement storage and retrieval of data from any of the databases supported by SQLAlchemy. This

__init__(*engine*, *table_prefix=''*)

The constructor for the `SQLAStorage` class.

Parameters **engine** – The SQLAlchemy engine instance created by calling

`create_engine`. One can also use Flask-SQLAlchemy, and pass the engine property. :type engine: object :param table_prefix: (Optional) Prefix to use for the tables created

(default "").

count_posts (*tag=None, user_id=None, include_draft=False*)

Returns the total number of posts for the give filter

Parameters

- **tag** (*str*) – Filter by a specific tag
- **user_id** (*str*) – Filter by a specific user
- **include_draft** (*bool*) – Whether to include posts marked as draft or not

Returns The number of posts for the given filter.

delete_post (*post_id*)

Delete the post defined by `post_id`

Parameters **post_id** (*int*) – The identifier corresponding to a post

Returns Returns True if the post was successfully deleted and False otherwise.

get_post_by_id (*post_id*)

Fetch the blog post given by `post_id`

Parameters **post_id** (*int*) – The post identifier for the blog post

Returns If the `post_id` is valid, the post data is retrieved, else returns `None`.

get_posts (*count=10, offset=0, recent=True, tag=None, user_id=None, include_draft=False*)

Get posts given by filter criteria

Parameters

- **count** (*int*) – The number of posts to retrieve (default 10)
- **offset** (*int*) – The number of posts to offset (default 0)
- **recent** (*bool*) – Order by recent posts or not
- **tag** (*str*) – Filter by a specific tag
- **user_id** (*str*) – Filter by a specific user
- **include_draft** (*bool*) – Whether to include posts marked as draft or not

Returns A list of posts, with each element a dict containing values for the following keys: (title, text, draft, post_date, last_modified_date). If count is `None`, then all the posts are returned.

save_post (*title, text, user_id, tags, draft=False, post_date=None, last_modified_date=None, meta_data=None, post_id=None*)

Persist the blog post data. If `post_id` is `None` or `post_id` is invalid, the post must be inserted into the storage. If `post_id` is a valid id, then the data must be updated.

Parameters

- **title** (*str*) – The title of the blog post
- **text** (*str*) – The text of the blog post
- **user_id** (*str*) – The user identifier
- **tags** (*list*) – A list of tags
- **draft** (*bool*) – (Optional) If the post is a draft of if needs to be published. (default `False`)
- **post_date** (*datetime.datetime*) – (Optional) The date the blog was posted (default `datetime.datetime.utcnow()`)

- **last_modified_date** (*datetime.datetime*) – (Optional) The date when blog was last modified (default `datetime.datetime.utcnow()`)
- **post_id** (*int*) – (Optional) The post identifier. This should be `None` for an insert call, and a valid value for update. (default `None`)

Returns The `post_id` value, in case of a successful insert or update. Return `None` if there were errors.

10.6 flask_blogging.storage module

class flask_blogging.storage.**Storage**

Bases: `object`

count_posts (*tag=None, user_id=None, include_draft=False*)

Returns the total number of posts for the give filter

Parameters

- **tag** (*str*) – Filter by a specific tag
- **user_id** (*str*) – Filter by a specific user
- **include_draft** (*bool*) – Whether to include posts marked as draft or not

Returns The number of posts for the given filter.

delete_post (*post_id*)

Delete the post defined by `post_id`

Parameters **post_id** (*int*) – The identifier corresponding to a post

Returns Returns `True` if the post was successfully deleted and `False` otherwise.

get_post_by_id (*post_id*)

Fetch the blog post given by `post_id`

Parameters **post_id** (*int*) – The post identifier for the blog post

Returns If the `post_id` is valid, the post data is retrieved,

else returns `None`.

get_posts (*count=10, offset=0, recent=True, tag=None, user_id=None, include_draft=False*)

Get posts given by filter criteria

Parameters

- **count** (*int*) – The number of posts to retrieve (default 10). If count is `None`, all posts are returned.
- **offset** (*int*) – The number of posts to offset (default 0)
- **recent** (*bool*) – Order by recent posts or not
- **tag** (*str*) – Filter by a specific tag
- **user_id** (*str*) – Filter by a specific user
- **include_draft** (*bool*) – Whether to include posts marked as draft or not

Returns A list of posts, with each element a dict containing values for the following keys: (title, text, draft, post_date, last_modified_date). If count is `None`, then all the posts are returned.

static **normalize_tags** (*tags*)

save_post (*title, text, user_id, tags, draft=False, post_date=None, last_modified_date=None, meta_data=None, post_id=None*)

Persist the blog post data. If `post_id` is `None` or `post_id` is invalid, the post must be inserted into the storage. If `post_id` is a valid id, then the data must be updated.

Parameters

- **title** (*str*) – The title of the blog post
- **text** (*str*) – The text of the blog post
- **user_id** (*str*) – The user identifier
- **tags** (*list*) – A list of tags
- **draft** (*bool*) – If the post is a draft or if needs to be published.
- **post_date** (*datetime.datetime*) – (Optional) The date the blog was posted (default `datetime.datetime.utcnow()`)
- **last_modified_date** (*datetime.datetime*) – (Optional) The date when blog was last modified (default `datetime.datetime.utcnow()`)
- **meta_data** (*dict*) – The meta data for the blog post
- **post_id** (*int*) – The post identifier. This should be `None` for an insert call, and a valid value for update.

Returns The `post_id` value, in case of a successful insert or update.

Return `None` if there were errors.

10.7 flask_blogging.views module

`flask_blogging.views.delete(*args, **kwargs)`

`flask_blogging.views.editor(*args, **kwargs)`

`flask_blogging.views.feed()`

`flask_blogging.views.index(count, page)`

Serves the page with a list of blog posts

Parameters

- **count** –
- **offset** –

Returns

`flask_blogging.views.page_by_id(post_id, slug)`

`flask_blogging.views.posts_by_author(user_id, count, page)`

`flask_blogging.views.posts_by_tag(tag, count, page)`

`flask_blogging.views.sitemap()`

10.8 flask_blogging.forms module

```
class flask_blogging.forms.BlogEditor (formdata=<class flask_wtf.form._Auto>, obj=None,
                                         prefix='', csrf_context=None, secret_key=None,
                                         csrf_enabled=None, *args, **kwargs)
```

```
    draft = <UnboundField(BooleanField, ('draft'), {'default': False})>
```

```
    submit = <UnboundField(SubmitField, ('submit'), {})>
```

```
    tags = <UnboundField(StringField, ('tags'), {'validators': [<wtforms.validators.DataRequired object at 0x7f12b121b3d0]>})>
```

```
    text = <UnboundField(TextAreaField, ('text'), {'validators': [<wtforms.validators.DataRequired object at 0x7f12b121b3d0]>})>
```

```
    title = <UnboundField(StringField, ('title'), {'validators': [<wtforms.validators.DataRequired object at 0x7f12b121b3d0]>})>
```

Contributors

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- adilosa

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