



Open Source Used In Firewall Migration Tool (FMT) 4.0

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.4 chardet 3.0.4

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1.5 python-lxml 4.6.3

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1.6 expat 2.2.8

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1.7 cffi 1.12.3

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1.8 sqlalchemy 1.3.15

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1.10 visual-studio-runtime 14.28.29334.0

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pyparser -- A C parser in Python

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1.11 openpyxl 3.0.1

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Metadata-Version: 1.2

Name: openpyxl

Version: 3.0.1

Summary: A Python library to read/write Excel 2010 xlsx/xlsm files

Home-page: <https://openpyxl.readthedocs.io>

Author: See AUTHORS

Author-email: charlie.clark@clark-consulting.eu

License: MIT

Project-URL: Documentation, <https://openpyxl.readthedocs.io/en/stable/>

Project-URL: Source, <https://bitbucket.org/openpyxl/openpyxl>

Project-URL: Tracker, <https://bitbucket.org/openpyxl/openpyxl/issues>

Description: .. image:: <https://coveralls.io/repos/bitbucket/openpyxl/openpyxl/badge.svg?branch=default>
:target: <https://coveralls.io/bitbucket/openpyxl/openpyxl?branch=default>
:alt: coverage status

Introduction

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xltx/xltn files.

It was born from lack of existing library to read/write natively from Python the Office Open XML format.

All kudos to the PHPExcel team as openpyxl was initially based on PHPExcel.

Security

By default openpyxl does not guard against quadratic blowup or billion laughs xml attacks. To guard against these attacks install defusedxml.

Mailing List

The user list can be found on <http://groups.google.com/group/openpyxl-users>

Sample code::

```
from openpyxl import Workbook
wb = Workbook()

# grab the active worksheet
```

```
ws = wb.active

# Data can be assigned directly to cells
ws['A1'] = 42

# Rows can also be appended
ws.append([1, 2, 3])

# Python types will automatically be converted
import datetime
ws['A2'] = datetime.datetime.now()

# Save the file
wb.save("sample.xlsx")
```

Documentation

The documentation is at: <https://openpyxl.readthedocs.io>

- * installation methods
- * code examples
- * instructions for contributing

Release notes: <https://openpyxl.readthedocs.io/en/stable/changes.html>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Operating System :: Microsoft :: Windows

Classifier: Operating System :: POSIX

Classifier: License :: OSI Approved :: MIT License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Requires-Python: >=3.6,

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1.12 markupsafe 1.1.1

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```
/**
 * markupsafe._speedups
 * ~~~~~
 *
 * C implementation of escaping for better performance. Used instead of
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 *
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* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-tar-gz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/_compat.py

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1.13 wtforms 2.3.3

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* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/hu/LC_MESSAGES/wtforms.po

* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/nl/LC_MESSAGES/wtforms.po

* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/ja/LC_MESSAGES/wtforms.po

* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/de_CH/LC_MESSAGES/wtforms.po

* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/en/LC_MESSAGES/wtforms.po

* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/zh/LC_MESSAGES/wtforms.po

* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/nb/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/ko/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/el/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/fr/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/es/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/uk/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/ru/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/zh_TW/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/it/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/fi/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/wtforms.pot
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/tr/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/ca/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/cs_CZ/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/sk/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/sv/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/pl/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/bg/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/he/LC_MESSAGES/wtforms.po
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/locale/fa/LC_MESSAGES/wtforms.po

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""

WTForms

=====

WTForms is a flexible forms validation and rendering library for python web development.

:copyright: Copyright (c) 2008 by the WTForms team.

:license: BSD, see LICENSE.rst for details.

"""

```
from wtforms import validators, widgets
from wtforms.fields import *
from wtforms.form import Form
from wtforms.validators import ValidationError
```

```
__version__ = '2.3.3'
```

Found in path(s):

```
* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/wtforms/__init__.py
```

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```
import io
import re
from setuptools import setup
```

```
with io.open('README.rst', 'rt', encoding='utf8') as f:
    readme = f.read()
```

```
with io.open('wtforms/__init__.py', 'rt', encoding='utf8') as f:
    version = re.search(r'__version__ = \('.*?\)', f.read()).group(1)
```

```
setup(
    name='WTForms',
    version=version,
    url='https://wtforms.readthedocs.io/',
    project_urls={
        'Documentation': 'https://wtforms.readthedocs.io/',
        'Code': 'https://github.com/wtforms/wtforms',
        'Issue Tracker': 'https://github.com/wtforms/wtforms/issues',
    },
    license='BSD-3-Clause',
    maintainer='WTForms',
    maintainer_email='davidism@gmail.com',
    description=(
        'A flexible forms validation and rendering library for Python'
        ' web development.'
    ),
    long_description=readme,
    classifiers=[
        'Development Status :: 5 - Production/Stable',
        'Environment :: Web Environment',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
```

```

'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Topic :: Internet :: WWW/HTTP :: Dynamic Content',
'Topic :: Software Development :: Libraries :: Python Modules',
],
packages=[
    'wtforms',
    'wtforms.csrf',
    'wtforms.fields',
    'wtforms.widgets',
    'wtforms.ext',
    'wtforms.ext.appengine',
    'wtforms.ext.csrf',
    'wtforms.ext.dateutil',
    'wtforms.ext.django',
    'wtforms.ext.django.templatetags',
    'wtforms.ext.i18n',
    'wtforms.ext.sqlalchemy',
],
include_package_data=True,
install_requires=["MarkupSafe"],
extras_require={
    "ipaddress": ['ipaddress;python_version<"3.3"'],
    "email": ["email_validator"],
    "locale": ['Babel>=1.3'],
},
)

```

Found in path(s):

```

* /opt/cola/permits/1160881687_1620412796.59/0/wtforms-wtforms-2-3-3-0-g244c8d6-1-tar-gz/wtforms-wtforms-244c8d6/setup.py

```

1.14 python-requests 2.23.0

1.14.1 Available under license :

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1.15 colorama 0.3.9

1.15.1 Available under license :

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1.16 bzip2 1.0.6

1.16.1 Available under license :

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)

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usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]

*/

%%CreationDate: Wed Dec 22 1999

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1.17 click 6.7

1.17.1 Available under license :

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module:

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1.18 flask 127.0.0.1

1.18.1 Available under license :

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* /opt/cola/permits/1518509336_1671696414.367616/0/flask-2-2-2-tar-gz/Flask-2.2.2/tests/test_cli.py

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3. The extension must use an open source license. The Python web

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```
[metadata]
name = Flask
version = attr: flask.__version__
url = https://palletsprojects.com/p/flask
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://flask.palletsprojects.com/
    Changes = https://flask.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/flask/
    Issue Tracker = https://github.com/pallets/flask/issues/
    Twitter = https://twitter.com/PalletsTeam
    Chat = https://discord.gg/pallets
license = BSD-3-Clause
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A simple framework for building complex web applications.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
    Development Status :: 5 - Production/Stable
    Environment :: Web Environment
    Framework :: Flask
    Intended Audience :: Developers
    License :: OSI Approved :: BSD License
    Operating System :: OS Independent
    Programming Language :: Python
    Topic :: Internet :: WWW/HTTP :: Dynamic Content
    Topic :: Internet :: WWW/HTTP :: WSGI
    Topic :: Internet :: WWW/HTTP :: WSGI :: Application
    Topic :: Software Development :: Libraries :: Application Frameworks
```

```
[options]
packages = find:
package_dir = = src
include_package_data = True
python_requires = >= 3.7
```

```
[options.packages.find]
where = src
```

```
[options.entry_points]
console_scripts =
    flask = flask.cli:main
```

```
[tool:pytest]
testpaths = tests
```

```
filterwarnings =  
error
```

```
[coverage:run]  
branch = True  
source =  
flask  
tests
```

```
[coverage:paths]  
source =  
src  
*/site-packages
```

```
[flake8]  
select = B, E, F, W, B9, ISC  
ignore =  
E203  
E402  
E501  
E722  
W503  
max-line-length = 80  
per-file-ignores =  
src/flask/__init__.py: F401
```

```
[mypy]  
files = src/flask, tests/typing  
python_version = 3.7  
show_error_codes = True  
allow_redefinition = True  
disallow_subclassing_any = True  
no_implicit_optional = True  
local_partial_types = True  
strict_equality = True  
warn_redundant_casts = True  
warn_unused_configs = True  
warn_unused_ignores = True
```

```
[mypy-asgiref.*]  
ignore_missing_imports = True
```

```
[mypy-blinker.*]  
ignore_missing_imports = True
```

```
[mypy-dotenv.*]  
ignore_missing_imports = True
```



```
[mypy-cryptography.*]  
ignore_missing_imports = True
```

```
[mypy-importlib_metadata]  
ignore_missing_imports = True
```

```
[egg_info]  
tag_build =  
tag_date = 0
```

Found in path(s):

```
* /opt/cola/permits/1518509336_1671696414.367616/0/flask-2-2-2-tar-gz/Flask-2.2.2/setup.cfg  
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```

Metadata-Version: 2.1

Name: Flask

Version: 2.2.2

Summary: A simple framework for building complex web applications.

Home-page: <https://palletsprojects.com/p/flask>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets

Maintainer-email: contact@palletsprojects.com

License: BSD-3-Clause

Project-URL: Donate, <https://palletsprojects.com/donate>

Project-URL: Documentation, <https://flask.palletsprojects.com/>

Project-URL: Changes, <https://flask.palletsprojects.com/changes/>

Project-URL: Source Code, <https://github.com/pallets/flask/>

Project-URL: Issue Tracker, <https://github.com/pallets/flask/issues/>

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Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Framework :: Flask

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

Classifier: Topic :: Internet :: WWW/HTTP :: WSGI

Classifier: Topic :: Internet :: WWW/HTTP :: WSGI :: Application

Classifier: Topic :: Software Development :: Libraries :: Application Frameworks

Requires-Python: >=3.7

Description-Content-Type: text/x-rst

Provides-Extra: async

Provides-Extra: dotenv

License-File: LICENSE.rst

Flask

=====

Flask is a lightweight `WSGI`_ web application framework. It is designed to make getting started quick and easy, with the ability to scale up to complex applications. It began as a simple wrapper around `Werkzeug`_ and `Jinja`_ and has become one of the most popular Python web application frameworks.

Flask offers suggestions, but doesn't enforce any dependencies or project layout. It is up to the developer to choose the tools and libraries they want to use. There are many extensions provided by the community that make adding new functionality easy.

.. _WSGI: <https://wsgi.readthedocs.io/>
.. _Werkzeug: <https://werkzeug.palletsprojects.com/>
.. _Jinja: <https://jinja.palletsprojects.com/>

Installing

Install and update using `pip`_:

.. code-block:: text

```
$ pip install -U Flask
```

.. _pip: <https://pip.pypa.io/en/stable/getting-started/>

A Simple Example

.. code-block:: python

```
# save this as app.py
from flask import Flask

app = Flask(__name__)

@app.route("/")
def hello():
    return "Hello, World!"
```

.. code-block:: text

```
$ flask run
```

* Running on <http://127.0.0.1:5000/> (Press CTRL+C to quit)

Contributing

For guidance on setting up a development environment and how to make a contribution to Flask, see the `contributing guidelines`_.

.. [_contributing guidelines: https://github.com/pallets/flask/blob/main/CONTRIBUTING.rst](https://github.com/pallets/flask/blob/main/CONTRIBUTING.rst)

Donate

The Pallets organization develops and supports Flask and the libraries it uses. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

.. [_please donate today: https://palletsprojects.com/donate](https://palletsprojects.com/donate)

Links

- Documentation: <https://flask.palletsprojects.com/>
- Changes: <https://flask.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/Flask/>
- Source Code: <https://github.com/pallets/flask/>
- Issue Tracker: <https://github.com/pallets/flask/issues/>
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* /opt/cola/permits/1518509336_1671696414.367616/0/flask-2-2-2-tar-gz/Flask-2.2.2/src/Flask.egg-info/PKG-INFO

* /opt/cola/permits/1518509336_1671696414.367616/0/flask-2-2-2-tar-gz/Flask-2.2.2/PKG-INFO

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- * /opt/cola/permits/1518509336_1671696414.367616/0/flask-2-2-2-tar-gz/Flask-2.2.2/examples/tutorial/LICENSE.rst
- * /opt/cola/permits/1518509336_1671696414.367616/0/flask-2-2-2-tar-gz/Flask-2.2.2/LICENSE.rst
- * /opt/cola/permits/1518509336_1671696414.367616/0/flask-2-2-2-tar-gz/Flask-2.2.2/examples/javascript/LICENSE.rst

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Flask leverages Jinja2 as its template engine. You are obviously free to use

Found in path(s):

- * /opt/cola/permits/1518509336_1671696414.367616/0/flask-2-2-2-tar-gz/Flask-2.2.2/docs/templating.rst

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.. currentmodule:: flask

Blog Blueprint

=====

You'll use the same techniques you learned about when writing the authentication blueprint to write the blog blueprint. The blog should list all posts, allow logged in users to create posts, and allow the author of a post to edit or delete it.

As you implement each view, keep the development server running. As you save your changes, try going to the URL in your browser and testing them

out.

The Blueprint

Define the blueprint and register it in the application factory.

```
.. code-block:: python
:caption: ``flaskr/blog.py``

from flask import (
    Blueprint, flash, g, redirect, render_template, request, url_for
)
from werkzeug.exceptions import abort

from flaskr.auth import login_required
from flaskr.db import get_db

bp = Blueprint('blog', __name__)
```

Import and register the blueprint from the factory using `app.register_blueprint()` <Flask.register_blueprint>. Place the new code at the end of the factory function before returning the app.

```
.. code-block:: python
:caption: ``flaskr/__init__.py``

def create_app():
    app = ...
    # existing code omitted

    from . import blog
    app.register_blueprint(blog.bp)
    app.add_url_rule('/', endpoint='index')

    return app
```

Unlike the auth blueprint, the blog blueprint does not have a `url_prefix`. So the `index` view will be at `/`, the `create` view at `/create`, and so on. The blog is the main feature of Flaskr, so it makes sense that the blog index will be the main index.

However, the endpoint for the `index` view defined below will be `blog.index`. Some of the authentication views referred to a plain `index` endpoint. `app.add_url_rule()` <Flask.add_url_rule> associates the endpoint name `'index'` with the `/` url so that `url_for('index')` or `url_for('blog.index')` will both work,

generating the same ``/`` URL either way.

In another application you might give the blog blueprint a ``url_prefix`` and define a separate ``index`` view in the application factory, similar to the ``hello`` view. Then the ``index`` and ``blog.index`` endpoints and URLs would be different.

Index

The index will show all of the posts, most recent first. A ``JOIN`` is used so that the author information from the ``user`` table is available in the result.

```
.. code-block:: python
:caption: ``flaskr/blog.py``
```

```
@bp.route('/')
def index():
    db = get_db()
    posts = db.execute(
        'SELECT p.id, title, body, created, author_id, username'
        ' FROM post p JOIN user u ON p.author_id = u.id'
        ' ORDER BY created DESC'
    ).fetchall()
    return render_template('blog/index.html', posts=posts)
```

```
.. code-block:: html+jinja
:caption: ``flaskr/templates/blog/index.html``
```

```
{% extends 'base.html' %}

{% block header %}
<h1>{% block title %}Posts{% endblock %}</h1>
{% if g.user %}
  <a class="action" href="{{ url_for('blog.create') }}">New</a>
{% endif %}
{% endblock %}

{% block content %}
{% for post in posts %}
<article class="post">
  <header>
    <div>
      <h1>{{ post['title'] }}</h1>
      <div class="about">by {{ post['username'] }} on {{ post['created'].strftime('%Y-%m-%d') }}</div>
    </div>
  </header>
  <div>
    {{ post['body'] }}
  </div>
</article>
{% endfor %}
{% endblock %}
```

```

    {% if g.user['id'] == post['author_id'] %}
    <a class="action" href="{{ url_for('blog.update', id=post['id']) }}">Edit</a>
    {% endif %}
</header>
<p class="body">{{ post['body'] }}</p>
</article>
{% if not loop.last %}
    <hr>
{% endif %}
{% endfor %}
{% endblock %}

```

When a user is logged in, the ``header`` block adds a link to the ``create`` view. When the user is the author of a post, they'll see an "Edit" link to the ``update`` view for that post. ``loop.last`` is a special variable available inside ` Jinja for loops`. It's used to display a line after each post except the last one, to visually separate them.

.. _Jinja for loops: <https://jinja.palletsprojects.com/templates/#for>

Create

The ``create`` view works the same as the auth ``register`` view. Either the form is displayed, or the posted data is validated and the post is added to the database or an error is shown.

The ``login_required`` decorator you wrote earlier is used on the blog views. A user must be logged in to visit these views, otherwise they will be redirected to the login page.

.. code-block:: python

:caption: ``flaskr/blog.py``

```
@bp.route('/create', methods=('GET', 'POST'))
```

```
@login_required
```

```
def create():
```

```
    if request.method == 'POST':
```

```
        title = request.form['title']
```

```
        body = request.form['body']
```

```
        error = None
```

```
    if not title:
```

```
        error = "Title is required."
```

```
    if error is not None:
```

```

        flash(error)
    else:
        db = get_db()
        db.execute(
            'INSERT INTO post (title, body, author_id)'
            ' VALUES (?, ?, ?)',
            (title, body, g.user['id'])
        )
        db.commit()
        return redirect(url_for('blog.index'))

```

```

return render_template('blog/create.html')

```

```

.. code-block:: html+inja
:caption: ``flaskr/templates/blog/create.html``

```

```

{% extends 'base.html' %}

{% block header %}
<h1>{% block title %}New Post{% endblock %}</h1>
{% endblock %}

{% block content %}
<form method="post">
  <label for="title">Title</label>
  <input name="title" id="title" value="{{ request.form['title'] }}" required>
  <label for="body">Body</label>
  <textarea name="body" id="body">{{ request.form['body'] }}</textarea>
  <input type="submit" value="Save">
</form>
{% endblock %}

```

Update

Both the ``update`` and ``delete`` views will need to fetch a ``post`` by ``id`` and check if the author matches the logged in user. To avoid duplicating code, you can write a function to get the ``post`` and call it from each view.

```

.. code-block:: python
:caption: ``flaskr/blog.py``

```

```

def get_post(id, check_author=True):
    post = get_db().execute(
        'SELECT p.id, title, body, created, author_id, username'
        ' FROM post p JOIN user u ON p.author_id = u.id'
    )

```



```

        ' WHERE p.id = ?',
        (id,)
    ).fetchone()

    if post is None:
        abort(404, f"Post id {id} doesn't exist.")

    if check_author and post['author_id'] != g.user['id']:
        abort(403)

    return post

```

:func:`abort` will raise a special exception that returns an HTTP status code. It takes an optional message to show with the error, otherwise a default message is used. ``404`` means "Not Found", and ``403`` means "Forbidden". (``401`` means "Unauthorized", but you redirect to the login page instead of returning that status.)

The ``check_author`` argument is defined so that the function can be used to get a ``post`` without checking the author. This would be useful if you wrote a view to show an individual post on a page, where the user doesn't matter because they're not modifying the post.

.. code-block:: python

:caption: ``flaskr/blog.py``

```

@bp.route('/<int:id>/update', methods=('GET', 'POST'))
@login_required
def update(id):
    post = get_post(id)

    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None

        if not title:
            error = "Title is required."

        if error is not None:
            flash(error)
        else:
            db = get_db()
            db.execute(
                'UPDATE post SET title = ?, body = ?'
                ' WHERE id = ?',
                (title, body, id)
            )

```

```

    db.commit()
    return redirect(url_for('blog.index'))

return render_template('blog/update.html', post=post)

```

Unlike the views you've written so far, the `update` function takes an argument, `id`. That corresponds to the `<int:id>` in the route. A real URL will look like `/1/update`. Flask will capture the `1`, ensure it's an `int`, and pass it as the `id` argument. If you don't specify `int` and instead do `<id>`, it will be a string. To generate a URL to the update page, `url_for` needs to be passed the `id` so it knows what to fill in: `url_for('blog.update', id=post['id'])`. This is also in the `index.html` file above.

The `create` and `update` views look very similar. The main difference is that the `update` view uses a `post` object and an `UPDATE` query instead of an `INSERT`. With some clever refactoring, you could use one view and template for both actions, but for the tutorial it's clearer to keep them separate.

.. code-block:: html+inja
:caption: flaskr/templates/blog/update.html

```

{% extends 'base.html' %}

{% block header %}
<h1>{% block title %}Edit "{{ post['title'] }}"{% endblock %}</h1>
{% endblock %}

{% block content %}
<form method="post">
  <label for="title">Title</label>
  <input name="title" id="title"
    value="{{ request.form['title'] or post['title'] }}" required>
  <label for="body">Body</label>
  <textarea name="body" id="body">{{ request.form['body'] or post['body'] }}</textarea>
  <input type="submit" value="Save">
</form>
<hr>
<form action="{{ url_for('blog.delete', id=post['id']) }}" method="post">
  <input class="danger" type="submit" value="Delete" onclick="return confirm('Are you sure?');">
</form>
{% endblock %}

```

This template has two forms. The first posts the edited data to the current page (`</id>/update`). The other form contains only a button and specifies an `action` attribute that posts to the delete view

instead. The button uses some JavaScript to show a confirmation dialog before submitting.

The pattern ``{{ request.form['title'] or post['title'] }}`` is used to choose what data appears in the form. When the form hasn't been submitted, the original ``post`` data appears, but if invalid form data was posted you want to display that so the user can fix the error, so ``request.form`` is used instead. `:data:request` is another variable that's automatically available in templates.

Delete

The delete view doesn't have its own template, the delete button is part of ``update.html`` and posts to the ``<id>/delete`` URL. Since there is no template, it will only handle the ``POST`` method and then redirect to the ``index`` view.

```
.. code-block:: python
   :caption: flaskr/blog.py
```

```
@bp.route('/<int:id>/delete', methods=('POST',))
@login_required
def delete(id):
    get_post(id)
    db = get_db()
    db.execute('DELETE FROM post WHERE id = ?', (id,))
    db.commit()
    return redirect(url_for('blog.index'))
```

Congratulations, you've now finished writing your application! Take some time to try out everything in the browser. However, there's still more to do before the project is complete.

Continue to `:doc:install`.

Found in path(s):

```
* /opt/cola/permits/1518509336_1671696414.367616/0/flask-2-2-2-tar-gz/Flask-2.2.2/docs/tutorial/blog.rst
```

1.19 idna 10.0.0

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1.20 paramiko 2.12.0

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1.21 xz 5.2.2

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1.24 jinja2 2.11.3

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Found in path(s):

* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/LICENSE.rst

No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1

Name: Jinja2

Version: 2.11.3

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets

Maintainer-email: contact@palletsprojects.com

License: BSD-3-Clause

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/jinja>

Project-URL: Issue tracker, <https://github.com/pallets/jinja/issues>

Description: Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

Install and update using ``pip`_`:

.. code-block:: text

```
$ pip install -U Jinja2
```

.. _pip: <https://pip.pypa.io/en/stable/quickstart/>

In A Nutshell

.. code-block:: jinja

```
{% extends "base.html" % }
{% block title % }Members{% endblock % }
{% block content % }
<ul>
{% for user in users % }
  <li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor % }
</ul>
{% endblock % }
```

Links

- Website: <https://palletsprojects.com/p/jinja/>
- Documentation: <https://jinja.palletsprojects.com/>
- Releases: <https://pypi.org/project/Jinja2/>
- Code: <https://github.com/pallets/jinja>
- Issue tracker: <https://github.com/pallets/jinja/issues>
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):

```
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/PKG-INFO
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/src/Jinja2.egg-info/PKG-INFO
```

No license file was found, but licenses were detected in source scan.

```
import io
import re
```

```
from setuptools import find_packages
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()
```

```
with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)
```

```
setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
```

```

"Operating System :: OS Independent",
"Programming Language :: Python",
"Programming Language :: Python :: 2",
"Programming Language :: Python :: 2.7",
"Programming Language :: Python :: 3",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
"Programming Language :: Python :: 3.7",
"Programming Language :: Python :: 3.8",
"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

```

Found in path(s):

* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2-11-3-1-tar-gz/Jinja2-2.11.3/setup.py

1.25 defusedxml 0.6.0

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1.26 pycparser 3.7

1.26.1 Available under license :

pycparser -- A C parser in Python

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1.27 openssl 1.1.1i

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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The End

1.28 bcrypt 3.1.3

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1.29 zlib 1.2.11

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1.30 tk 8.6.9

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1.31 pynacl 1.4.0

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1.34 **werkzeug 0.15.5**

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1.35 urllib3 1.10.0

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