Python flask.Blueprint() Examples

The following are code examples for showing how to use *flask.Blueprint()*. They are from open source Python projects. You can vote up the examples you like or vote down the ones you don't like.

Example 1

```python
def test_blueprint_url_definitions(self):
    bp = flask.Blueprint('test', __name__)

    @bp.route('/foo', defaults={'baz': 42})
    def foo(bar, baz):
        return '%s/%d' % (bar, baz)

    @bp.route('/bar')
    def bar(bar):
        return text_type(bar)

    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/1', url_defaults={'bar': 23})
    app.register_blueprint(bp, url_prefix='/2', url_defaults={'bar': 19})

    c = app.test_client()
    self.assert_equal(c.get('/1/foo').data, b'23/42')
    self.assert_equal(c.get('/2/foo').data, b'19/42')
    self.assert_equal(c.get('/1/bar').data, b'23')
    self.assert_equal(c.get('/2/bar').data, b'19')
```

Example 2

```python
def test_default_static_cache_timeout(self):
    app = flask.Flask(__name__)
    class MyBlueprint(flask.Blueprint):
        def get_send_file_max_age(self, filename):
            return 100

    blueprint = MyBlueprint('blueprint', __name__, static_folder='static')
    app.register_blueprint(blueprint)

    # try/finally, in case other tests use this app for Blueprint tests.
    max_age_default = app.config['SEND_FILE_MAX_AGE_DEFAULT']
    try:
        with app.test_request_context():
            unexpected_max_age = 3600
            if app.config['SEND_FILE_MAX_AGE_DEFAULT'] == unexpected_max_age:
                unexpected_max_age = 7200
            app.config['SEND_FILE_MAX_AGE_DEFAULT'] = unexpected_max_age
            rv = blueprint.send_static_file('index.html')
            cc = parse_cache_control_header(rv.headers['Cache-Control'])
            self.assert_equal(cc.max_age, 100)
            rv.close()
```

```
        finally:
            app.config['SEND_FILE_MAX_AGE_DEFAULT'] = max_age_default
```

Example 3

```
def test_dotted_names_from_app(self):
        app = flask.Flask(__name__)
        app.testing = True
        test = flask.Blueprint('test', __name__)

        @app.route('/')
        def app_index():
            return flask.url_for('test.index')

        @test.route('/test/')
        def index():
            return flask.url_for('app_index')

        app.register_blueprint(test)

        with app.test_client() as c:
            rv = c.get('/')
            self.assert_equal(rv.data, b'/test/')
```

Example 4

```
def test_inject_blueprint_url_defaults(self):
        app = flask.Flask(__name__)
        bp = flask.Blueprint('foo.bar.baz', __name__,
                    template_folder='template')

        @bp.url_defaults
        def bp_defaults(endpoint, values):
            values['page'] = 'login'
        @bp.route('/<page>')
        def view(page): pass

        app.register_blueprint(bp)

        values = dict()
        app.inject_url_defaults('foo.bar.baz.view', values)
        expected = dict(page='login')
        self.assert_equal(values, expected)

        with app.test_request_context('/somepage'):
            url = flask.url_for('foo.bar.baz.view')
        expected = '/login'
        self.assert_equal(url, expected)
```

Example 5

```python
def test_blueprint_url_definitions(self):
        bp = flask.Blueprint('test', __name__)

        @bp.route('/foo', defaults={'baz': 42})
        def foo(bar, baz):
            return '%s/%d' % (bar, baz)

        @bp.route('/bar')
        def bar(bar):
            return text_type(bar)

        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/1', url_defaults={'bar': 23})
        app.register_blueprint(bp, url_prefix='/2', url_defaults={'bar': 19})

        c = app.test_client()
        self.assert_equal(c.get('/1/foo').data, b'23/42')
        self.assert_equal(c.get('/2/foo').data, b'19/42')
        self.assert_equal(c.get('/1/bar').data, b'23')
        self.assert_equal(c.get('/2/bar').data, b'19')
```

Example 6

```python
def test_default_static_cache_timeout(self):
        app = flask.Flask(__name__)
        class MyBlueprint(flask.Blueprint):
            def get_send_file_max_age(self, filename):
                return 100

        blueprint = MyBlueprint('blueprint', __name__, static_folder='static')
        app.register_blueprint(blueprint)

        # try/finally, in case other tests use this app for Blueprint tests.
        max_age_default = app.config['SEND_FILE_MAX_AGE_DEFAULT']
        try:
            with app.test_request_context():
                unexpected_max_age = 3600
                if app.config['SEND_FILE_MAX_AGE_DEFAULT'] == unexpected_max_age:
                    unexpected_max_age = 7200
                app.config['SEND_FILE_MAX_AGE_DEFAULT'] = unexpected_max_age
                rv = blueprint.send_static_file('index.html')
                cc = parse_cache_control_header(rv.headers['Cache-Control'])
                self.assert_equal(cc.max_age, 100)
                rv.close()
        finally:
            app.config['SEND_FILE_MAX_AGE_DEFAULT'] = max_age_default
```

Example 7

```python
def test_dotted_names(self):
        frontend = flask.Blueprint('myapp.frontend', __name__)
        backend = flask.Blueprint('myapp.backend', __name__)

        @frontend.route('/fe')
        def frontend_index():
```

```
            return flask.url_for('myapp.backend.backend_index')

        @frontend.route('/fe2')
        def frontend_page2():
            return flask.url_for('.frontend_index')

        @backend.route('/be')
        def backend_index():
            return flask.url_for('myapp.frontend.frontend_index')

        app = flask.Flask(__name__)
        app.register_blueprint(frontend)
        app.register_blueprint(backend)

        c = app.test_client()
        self.assert_equal(c.get('/fe').data.strip(), b'/be')
        self.assert_equal(c.get('/fe2').data.strip(), b'/fe')
        self.assert_equal(c.get('/be').data.strip(), b'/fe')
```

Example 8

```
def test_inject_blueprint_url_defaults(self):
        app = flask.Flask(__name__)
        bp = flask.Blueprint('foo.bar.baz', __name__,
                     template_folder='template')

        @bp.url_defaults
        def bp_defaults(endpoint, values):
            values['page'] = 'login'
        @bp.route('/<page>')
        def view(page): pass

        app.register_blueprint(bp)

        values = dict()
        app.inject_url_defaults('foo.bar.baz.view', values)
        expected = dict(page='login')
        self.assert_equal(values, expected)

        with app.test_request_context('/somepage'):
            url = flask.url_for('foo.bar.baz.view')
        expected = '/login'
        self.assert_equal(url, expected)
```

Example 9

```
def test_blueprint_url_definitions(self):
        bp = flask.Blueprint('test', __name__)

        @bp.route('/foo', defaults={'baz': 42})
        def foo(bar, baz):
            return '%s/%d' % (bar, baz)

        @bp.route('/bar')
        def bar(bar):
            return text_type(bar)
```

```
            app = flask.Flask(__name__)
            app.register_blueprint(bp, url_prefix='/1', url_defaults={'bar': 23})
            app.register_blueprint(bp, url_prefix='/2', url_defaults={'bar': 19})

            c = app.test_client()
            self.assert_equal(c.get('/1/foo').data, b'23/42')
            self.assert_equal(c.get('/2/foo').data, b'19/42')
            self.assert_equal(c.get('/1/bar').data, b'23')
            self.assert_equal(c.get('/2/bar').data, b'19')
```

Example 10

```
def test_default_static_cache_timeout(self):
        app = flask.Flask(__name__)
        class MyBlueprint(flask.Blueprint):
            def get_send_file_max_age(self, filename):
                return 100

        blueprint = MyBlueprint('blueprint', __name__, static_folder='static')
        app.register_blueprint(blueprint)

        # try/finally, in case other tests use this app for Blueprint tests.
        max_age_default = app.config['SEND_FILE_MAX_AGE_DEFAULT']
        try:
            with app.test_request_context():
                unexpected_max_age = 3600
                if app.config['SEND_FILE_MAX_AGE_DEFAULT'] == unexpected_max_age:
                    unexpected_max_age = 7200
                app.config['SEND_FILE_MAX_AGE_DEFAULT'] = unexpected_max_age
                rv = blueprint.send_static_file('index.html')
                cc = parse_cache_control_header(rv.headers['Cache-Control'])
                self.assert_equal(cc.max_age, 100)
                rv.close()
        finally:
            app.config['SEND_FILE_MAX_AGE_DEFAULT'] = max_age_default
```

Example 11

```
def test_dotted_names_from_app(self):
        app = flask.Flask(__name__)
        app.testing = True
        test = flask.Blueprint('test', __name__)

        @app.route('/')
        def app_index():
            return flask.url_for('test.index')

        @test.route('/test/')
        def index():
            return flask.url_for('app_index')

        app.register_blueprint(test)

        with app.test_client() as c:
            rv = c.get('/')
            self.assert_equal(rv.data, b'/test/')
```

Example 12

```python
def test_inject_blueprint_url_defaults(self):
        app = flask.Flask(__name__)
        bp = flask.Blueprint('foo.bar.baz', __name__,
                        template_folder='template')

        @bp.url_defaults
        def bp_defaults(endpoint, values):
            values['page'] = 'login'
        @bp.route('/<page>')
        def view(page): pass

        app.register_blueprint(bp)

        values = dict()
        app.inject_url_defaults('foo.bar.baz.view', values)
        expected = dict(page='login')
        self.assert_equal(values, expected)

        with app.test_request_context('/somepage'):
            url = flask.url_for('foo.bar.baz.view')
        expected = '/login'
        self.assert_equal(url, expected)
```

Example 13

```python
def __init__(self, controller: ProxyController):
        self.blueprint = Blueprint('proxy_blueprint', __name__)

        @self.blueprint.route('/', defaults={'path': ''})
        @self.blueprint.route('/<path:path>', methods=['GET', 'OPTIONS', 'HEAD', '
        def proxy(path):
            return controller.proxy(
                path,
                Request(
                    method=request.method,
                    args=request.args,
                    headers=request.headers,
                    raw_content=request.stream.read(),
                ),
                session.get(SESSION_TOKEN)
            )
```

Example 14

```python
def _factory(partial_module_string: str, url_prefix: str=None) -> Blueprint:
    """Generates blueprint objects for view modules.

    Positional arguments:
    partial_module_string -- string representing a view module without the absolut
        gitlab-tools.views.home.index).
    url_prefix -- URL prefix passed to the blueprint.

    Returns:
```

```
    Blueprint instance for a view module.
    """
    name = partial_module_string
    import_name = 'gitlab_tools.views.{}'.format(partial_module_string)
    template_folder = 'templates'
    blueprint = Blueprint(name, import_name, template_folder=template_folder, url_
    return blueprint
```

Example 15

```
def test_blueprint_specific_error_handling(self):
        frontend = flask.Blueprint('frontend', __name__)
        backend = flask.Blueprint('backend', __name__)
        sideend = flask.Blueprint('sideend', __name__)

        @frontend.errorhandler(403)
        def frontend_forbidden(e):
            return 'frontend says no', 403

        @frontend.route('/frontend-no')
        def frontend_no():
            flask.abort(403)

        @backend.errorhandler(403)
        def backend_forbidden(e):
            return 'backend says no', 403

        @backend.route('/backend-no')
        def backend_no():
            flask.abort(403)

        @sideend.route('/what-is-a-sideend')
        def sideend_no():
            flask.abort(403)

        app = flask.Flask(__name__)
        app.register_blueprint(frontend)
        app.register_blueprint(backend)
        app.register_blueprint(sideend)

        @app.errorhandler(403)
        def app_forbidden(e):
            return 'application itself says no', 403

        c = app.test_client()

        self.assert_equal(c.get('/frontend-no').data, b'frontend says no')
        self.assert_equal(c.get('/backend-no').data, b'backend says no')
        self.assert_equal(c.get('/what-is-a-sideend').data, b'application itself s
```

Example 16

```
def test_blueprint_url_processors(self):
        bp = flask.Blueprint('frontend', __name__, url_prefix='/<lang_code>')
```

```python
    @bp.url_defaults
    def add_language_code(endpoint, values):
        values.setdefault('lang_code', flask.g.lang_code)

    @bp.url_value_preprocessor
    def pull_lang_code(endpoint, values):
        flask.g.lang_code = values.pop('lang_code')

    @bp.route('/')
    def index():
        return flask.url_for('.about')

    @bp.route('/about')
    def about():
        return flask.url_for('.index')

    app = flask.Flask(__name__)
    app.register_blueprint(bp)

    c = app.test_client()

    self.assert_equal(c.get('/de/').data, b'/de/about')
    self.assert_equal(c.get('/de/about').data, b'/de/')
```

Example 17

```python
def test_empty_url_defaults(self):
        bp = flask.Blueprint('bp', __name__)

        @bp.route('/', defaults={'page': 1})
        @bp.route('/page/<int:page>')
        def something(page):
            return str(page)

        app = flask.Flask(__name__)
        app.register_blueprint(bp)

        c = app.test_client()
        self.assert_equal(c.get('/').data, b'1')
        self.assert_equal(c.get('/page/2').data, b'2')
```

Example 18

```python
def test_route_decorator_custom_endpoint(self):

        bp = flask.Blueprint('bp', __name__)

        @bp.route('/foo')
        def foo():
            return flask.request.endpoint

        @bp.route('/bar', endpoint='bar')
        def foo_bar():
            return flask.request.endpoint
```

```
        @bp.route('/bar/123', endpoint='123')
        def foo_bar_foo():
            return flask.request.endpoint

        @bp.route('/bar/foo')
        def bar_foo():
            return flask.request.endpoint

        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')

        @app.route('/')
        def index():
            return flask.request.endpoint

        c = app.test_client()
        self.assertEqual(c.get('/').data, b'index')
        self.assertEqual(c.get('/py/foo').data, b'bp.foo')
        self.assertEqual(c.get('/py/bar').data, b'bp.bar')
        self.assertEqual(c.get('/py/bar/123').data, b'bp.123')
        self.assertEqual(c.get('/py/bar/foo').data, b'bp.bar_foo')
```

Example 19

```
def test_template_filter(self):
        bp = flask.Blueprint('bp', __name__)
        @bp.app_template_filter()
        def my_reverse(s):
            return s[::-1]
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        self.assert_in('my_reverse', app.jinja_env.filters.keys())
        self.assert_equal(app.jinja_env.filters['my_reverse'], my_reverse)
        self.assert_equal(app.jinja_env.filters['my_reverse']('abcd'), 'dcba')
```

Example 20

```
def test_template_filter_with_name(self):
        bp = flask.Blueprint('bp', __name__)
        @bp.app_template_filter('strrev')
        def my_reverse(s):
            return s[::-1]
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        self.assert_in('strrev', app.jinja_env.filters.keys())
        self.assert_equal(app.jinja_env.filters['strrev'], my_reverse)
        self.assert_equal(app.jinja_env.filters['strrev']('abcd'), 'dcba')
```

Example 21

```
def test_add_template_filter_with_name(self):
        bp = flask.Blueprint('bp', __name__)
        def my_reverse(s):
            return s[::-1]
        bp.add_app_template_filter(my_reverse, 'strrev')
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        self.assert_in('strrev', app.jinja_env.filters.keys())
        self.assert_equal(app.jinja_env.filters['strrev'], my_reverse)
        self.assert_equal(app.jinja_env.filters['strrev']('abcd'), 'dcba')
```

Example 22

```
def test_template_filter_with_template(self):
        bp = flask.Blueprint('bp', __name__)
        @bp.app_template_filter()
        def super_reverse(s):
            return s[::-1]
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        @app.route('/')
        def index():
            return flask.render_template('template_filter.html', value='abcd')
        rv = app.test_client().get('/')
        self.assert_equal(rv.data, b'dcba')
```

Example 23

```
def test_template_filter_after_route_with_template(self):
        app = flask.Flask(__name__)
        @app.route('/')
        def index():
            return flask.render_template('template_filter.html', value='abcd')
        bp = flask.Blueprint('bp', __name__)
        @bp.app_template_filter()
        def super_reverse(s):
            return s[::-1]
        app.register_blueprint(bp, url_prefix='/py')
        rv = app.test_client().get('/')
        self.assert_equal(rv.data, b'dcba')
```

Example 24

```
def test_add_template_filter_with_template(self):
        bp = flask.Blueprint('bp', __name__)
        def super_reverse(s):
            return s[::-1]
        bp.add_app_template_filter(super_reverse)
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        @app.route('/')
```

```
    def index():
        return flask.render_template('template_filter.html', value='abcd')
    rv = app.test_client().get('/')
    self.assert_equal(rv.data, b'dcba')
```

Example 25

```
def test_add_template_filter_with_name_and_template(self):
    bp = flask.Blueprint('bp', __name__)
    def my_reverse(s):
        return s[::-1]
    bp.add_app_template_filter(my_reverse, 'super_reverse')
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    @app.route('/')
    def index():
        return flask.render_template('template_filter.html', value='abcd')
    rv = app.test_client().get('/')
    self.assert_equal(rv.data, b'dcba')
```

Example 26

```
def test_template_test(self):
    bp = flask.Blueprint('bp', __name__)
    @bp.app_template_test()
    def is_boolean(value):
        return isinstance(value, bool)
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    self.assert_in('is_boolean', app.jinja_env.tests.keys())
    self.assert_equal(app.jinja_env.tests['is_boolean'], is_boolean)
    self.assert_true(app.jinja_env.tests['is_boolean'](False))
```

Example 27

```
def test_add_template_test(self):
    bp = flask.Blueprint('bp', __name__)
    def is_boolean(value):
        return isinstance(value, bool)
    bp.add_app_template_test(is_boolean)
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    self.assert_in('is_boolean', app.jinja_env.tests.keys())
    self.assert_equal(app.jinja_env.tests['is_boolean'], is_boolean)
    self.assert_true(app.jinja_env.tests['is_boolean'](False))
```

Example 28

```
def test_template_test_with_name(self):
        bp = flask.Blueprint('bp', __name__)
        @bp.app_template_test('boolean')
        def is_boolean(value):
            return isinstance(value, bool)
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        self.assert_in('boolean', app.jinja_env.tests.keys())
        self.assert_equal(app.jinja_env.tests['boolean'], is_boolean)
        self.assert_true(app.jinja_env.tests['boolean'](False))
```

Example 29

```
def test_add_template_test_with_name(self):
        bp = flask.Blueprint('bp', __name__)
        def is_boolean(value):
            return isinstance(value, bool)
        bp.add_app_template_test(is_boolean, 'boolean')
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        self.assert_in('boolean', app.jinja_env.tests.keys())
        self.assert_equal(app.jinja_env.tests['boolean'], is_boolean)
        self.assert_true(app.jinja_env.tests['boolean'](False))
```

Example 30

```
def test_template_test_after_route_with_template(self):
        app = flask.Flask(__name__)
        @app.route('/')
        def index():
            return flask.render_template('template_test.html', value=False)
        bp = flask.Blueprint('bp', __name__)
        @bp.app_template_test()
        def boolean(value):
            return isinstance(value, bool)
        app.register_blueprint(bp, url_prefix='/py')
        rv = app.test_client().get('/')
        self.assert_in(b'Success!', rv.data)
```

Example 31

```
def test_add_template_test_with_template(self):
        bp = flask.Blueprint('bp', __name__)
        def boolean(value):
            return isinstance(value, bool)
        bp.add_app_template_test(boolean)
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        @app.route('/')
```

```
    def index():
        return flask.render_template('template_test.html', value=False)
    rv = app.test_client().get('/')
    self.assert_in(b'Success!', rv.data)
```

Example 32

```
def test_template_test_with_name_and_template(self):
    bp = flask.Blueprint('bp', __name__)
    @bp.app_template_test('boolean')
    def is_boolean(value):
        return isinstance(value, bool)
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    @app.route('/')
    def index():
        return flask.render_template('template_test.html', value=False)
    rv = app.test_client().get('/')
    self.assert_in(b'Success!', rv.data)
```

Example 33

```
def test_add_template_test_with_name_and_template(self):
    bp = flask.Blueprint('bp', __name__)
    def is_boolean(value):
        return isinstance(value, bool)
    bp.add_app_template_test(is_boolean, 'boolean')
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    @app.route('/')
    def index():
        return flask.render_template('template_test.html', value=False)
    rv = app.test_client().get('/')
    self.assert_in(b'Success!', rv.data)
```

Example 34

```
def test_blueprint_url_processors(self):
    bp = flask.Blueprint('frontend', __name__, url_prefix='/<lang_code>')

    @bp.url_defaults
    def add_language_code(endpoint, values):
        values.setdefault('lang_code', flask.g.lang_code)

    @bp.url_value_preprocessor
    def pull_lang_code(endpoint, values):
        flask.g.lang_code = values.pop('lang_code')

    @bp.route('/')
    def index():
        return flask.url_for('.about')
```

```
    @bp.route('/about')
    def about():
        return flask.url_for('.index')

    app = flask.Flask(__name__)
    app.register_blueprint(bp)

    c = app.test_client()

    self.assert_equal(c.get('/de/').data, b'/de/about')
    self.assert_equal(c.get('/de/about').data, b'/de/')
```

Example 35

```
def test_empty_url_defaults(self):
        bp = flask.Blueprint('bp', __name__)

        @bp.route('/', defaults={'page': 1})
        @bp.route('/page/<int:page>')
        def something(page):
            return str(page)

        app = flask.Flask(__name__)
        app.register_blueprint(bp)

        c = app.test_client()
        self.assert_equal(c.get('/').data, b'1')
        self.assert_equal(c.get('/page/2').data, b'2')
```

Example 36

```
def test_route_decorator_custom_endpoint(self):

        bp = flask.Blueprint('bp', __name__)

        @bp.route('/foo')
        def foo():
            return flask.request.endpoint

        @bp.route('/bar', endpoint='bar')
        def foo_bar():
            return flask.request.endpoint

        @bp.route('/bar/123', endpoint='123')
        def foo_bar_foo():
            return flask.request.endpoint

        @bp.route('/bar/foo')
        def bar_foo():
            return flask.request.endpoint

        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
```

```
    @app.route('/')
    def index():
        return flask.request.endpoint

    c = app.test_client()
    self.assertEqual(c.get('/').data, b'index')
    self.assertEqual(c.get('/py/foo').data, b'bp.foo')
    self.assertEqual(c.get('/py/bar').data, b'bp.bar')
    self.assertEqual(c.get('/py/bar/123').data, b'bp.123')
    self.assertEqual(c.get('/py/bar/foo').data, b'bp.bar_foo')
```

Example 37

```
def test_template_filter(self):
    bp = flask.Blueprint('bp', __name__)
    @bp.app_template_filter()
    def my_reverse(s):
        return s[::-1]
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    self.assert_in('my_reverse', app.jinja_env.filters.keys())
    self.assert_equal(app.jinja_env.filters['my_reverse'], my_reverse)
    self.assert_equal(app.jinja_env.filters['my_reverse']('abcd'), 'dcba')
```

Example 38

```
def test_add_template_filter(self):
    bp = flask.Blueprint('bp', __name__)
    def my_reverse(s):
        return s[::-1]
    bp.add_app_template_filter(my_reverse)
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    self.assert_in('my_reverse', app.jinja_env.filters.keys())
    self.assert_equal(app.jinja_env.filters['my_reverse'], my_reverse)
    self.assert_equal(app.jinja_env.filters['my_reverse']('abcd'), 'dcba')
```

Example 39

```
def test_add_template_filter_with_name(self):
    bp = flask.Blueprint('bp', __name__)
    def my_reverse(s):
        return s[::-1]
    bp.add_app_template_filter(my_reverse, 'strrev')
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    self.assert_in('strrev', app.jinja_env.filters.keys())
    self.assert_equal(app.jinja_env.filters['strrev'], my_reverse)
    self.assert_equal(app.jinja_env.filters['strrev']('abcd'), 'dcba')
```

Example 40

```python
def test_template_filter_with_template(self):
        bp = flask.Blueprint('bp', __name__)
        @bp.app_template_filter()
        def super_reverse(s):
            return s[::-1]
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        @app.route('/')
        def index():
            return flask.render_template('template_filter.html', value='abcd')
        rv = app.test_client().get('/')
        self.assert_equal(rv.data, b'dcba')
```

Example 41

```python
def test_template_filter_after_route_with_template(self):
        app = flask.Flask(__name__)
        @app.route('/')
        def index():
            return flask.render_template('template_filter.html', value='abcd')
        bp = flask.Blueprint('bp', __name__)
        @bp.app_template_filter()
        def super_reverse(s):
            return s[::-1]
        app.register_blueprint(bp, url_prefix='/py')
        rv = app.test_client().get('/')
        self.assert_equal(rv.data, b'dcba')
```

Example 42

```python
def test_add_template_filter_with_template(self):
        bp = flask.Blueprint('bp', __name__)
        def super_reverse(s):
            return s[::-1]
        bp.add_app_template_filter(super_reverse)
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        @app.route('/')
        def index():
            return flask.render_template('template_filter.html', value='abcd')
        rv = app.test_client().get('/')
        self.assert_equal(rv.data, b'dcba')
```

Example 43

```python
def test_template_filter_with_name_and_template(self):
        bp = flask.Blueprint('bp', __name__)
```

```
    @bp.app_template_filter('super_reverse')
    def my_reverse(s):
        return s[::-1]
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    @app.route('/')
    def index():
        return flask.render_template('template_filter.html', value='abcd')
    rv = app.test_client().get('/')
    self.assert_equal(rv.data, b'dcba')
```

Example 44

```
def test_template_test(self):
    bp = flask.Blueprint('bp', __name__)
    @bp.app_template_test()
    def is_boolean(value):
        return isinstance(value, bool)
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    self.assert_in('is_boolean', app.jinja_env.tests.keys())
    self.assert_equal(app.jinja_env.tests['is_boolean'], is_boolean)
    self.assert_true(app.jinja_env.tests['is_boolean'](False))
```

Example 45

```
def test_add_template_test(self):
    bp = flask.Blueprint('bp', __name__)
    def is_boolean(value):
        return isinstance(value, bool)
    bp.add_app_template_test(is_boolean)
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    self.assert_in('is_boolean', app.jinja_env.tests.keys())
    self.assert_equal(app.jinja_env.tests['is_boolean'], is_boolean)
    self.assert_true(app.jinja_env.tests['is_boolean'](False))
```

Example 46

```
def test_template_test_with_name(self):
    bp = flask.Blueprint('bp', __name__)
    @bp.app_template_test('boolean')
    def is_boolean(value):
        return isinstance(value, bool)
    app = flask.Flask(__name__)
    app.register_blueprint(bp, url_prefix='/py')
    self.assert_in('boolean', app.jinja_env.tests.keys())
    self.assert_equal(app.jinja_env.tests['boolean'], is_boolean)
    self.assert_true(app.jinja_env.tests['boolean'](False))
```

Example 47

```python
def test_add_template_test_with_name(self):
        bp = flask.Blueprint('bp', __name__)
        def is_boolean(value):
            return isinstance(value, bool)
        bp.add_app_template_test(is_boolean, 'boolean')
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        self.assert_in('boolean', app.jinja_env.tests.keys())
        self.assert_equal(app.jinja_env.tests['boolean'], is_boolean)
        self.assert_true(app.jinja_env.tests['boolean'](False))
```

Example 48

```python
def test_template_test_with_template(self):
        bp = flask.Blueprint('bp', __name__)
        @bp.app_template_test()
        def boolean(value):
            return isinstance(value, bool)
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        @app.route('/')
        def index():
            return flask.render_template('template_test.html', value=False)
        rv = app.test_client().get('/')
        self.assert_in(b'Success!', rv.data)
```

Example 49

```python
def test_add_template_test_with_template(self):
        bp = flask.Blueprint('bp', __name__)
        def boolean(value):
            return isinstance(value, bool)
        bp.add_app_template_test(boolean)
        app = flask.Flask(__name__)
        app.register_blueprint(bp, url_prefix='/py')
        @app.route('/')
        def index():
            return flask.render_template('template_test.html', value=False)
        rv = app.test_client().get('/')
        self.assert_in(b'Success!', rv.data)
```

Example 50

```python
def test_template_test_with_name_and_template(self):
        bp = flask.Blueprint('bp', __name__)
        @bp.app_template_test('boolean')
        def is_boolean(value):
```

```python
        return isinstance(value, bool)
app = flask.Flask(__name__)
app.register_blueprint(bp, url_prefix='/py')
@app.route('/')
def index():
    return flask.render_template('template_test.html', value=False)
rv = app.test_client().get('/')
self.assert_in(b'Success!', rv.data)
```