

Managing Bookmarks

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In This Module

Layout

Edit and Delete Bookmarks

Tagging

Templates (Jinja2)

filters

include

context processor

JavaScript integration

Database (sqlalchemy)

Many-to-many relation

Database migration

Jinja2 Filters

- **Filters are special functions**

- applied in a variable expression
- can be chained using the pipe symbol (|)



- `{{ title|truncate(10) }}`

- Will truncate the contents of the variable title

- `{{ title|trim|upper|truncate(10) }}`

- Strip whitespace from title, then convert to uppercase, then truncate

- **Jinja provides builtin filters for many common operations**

- Can also add custom filters with `app.template_filter` decorator
- Flask adds one: `tojson`

Jinja2: Include and With

```
{% include "other.html" %}
```

renders `other.html` and includes the output in current template
useful with templates that generate HTML fragments
included template has access to context variables

```
{% with x=42 %}
```

creates a new scope with variable `x` in it

Populating Forms and Models

```
form = BookmarkForm(obj=bookmark)
```

- Use the `obj` argument to populate a form with data from an object
 - For example a Model instance
 - If request data is present, that will be used instead of `obj`

```
form.populate_obj(bookmark)
```

- Use `populate_obj` to populate a Model instance from an object

Database Migrations

- Pip install flask-migrate
- In manage.py:

```
from flask.ext.migrate import Migrate, MigrateCommand
migrate = Migrate(app, db)
manager.add_command('db', MigrateCommand)
```

- **python manage.py db init**
 - initializes migrations
- **python manage.py db migrate -m “migration_name”**
 - Adds a migration – generates scripts
- **python manage.py db upgrade**
 - Upgrade database to latest version
 - Actually runs SQL

Context Processors and Super

- **Inject variables into template context**
 - A function that returns a dict
 - Will be run before each template is loaded
 - Contents of dict are added to template context
 - Annotate with `@app.context_processor`
- **Calling `super()` inside a `{% block %}`**
 - Will insert contents of parent block

Resources

- <http://flask-migrate.readthedocs.org> (<http://goo.gl/BsNA8r>)
- <https://github.com/miguelgrinberg/flask-moment/>
(<http://goo.gl/2IJqyv>)
- <https://ivaynberg.github.io/select2/> (<http://goo.gl/BqTj4C>)
- <http://jinja.pocoo.org>



Summary

- **Layout**
- **Templates: Filters, Includes**
- **Editing bookmarks**
 - populating Models from Forms, and Forms from Models
- **Tags**
 - Many-to-many
 - Flask-migrate
 - JavaScript
 - Context Processor
- **Delete Page**