When Your App Grows

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In This Module

Growing Application	Blueprints	Unit Testing
Application Factory	Debugging	Dynamic Configuration

Blueprints

- **A blueprint of how to construct or extend an application**
  - Not an app, but app-like
  - Can provide views and/or resources like static files or templates, or models, etc.

- **Purpose**
  - Break up growing application into modules
  - Re-usable modules that can be registered on multiple apps

- **Blueprints don't have to be in their own package**
  - But most of the time, they will be

Creating and Registering a Blueprint

```python
from flask import Blueprint
auth = Blueprint('auth', __name__)
from . import views
```

```python
from .auth import auth as auth_blueprint
app.register_blueprint(auth_blueprint,
                        url_prefix='/auth')
```

- **Views are registered with** `@auth.route` **instead of** `@app.route`

- **When referencing views from a blueprint** `(url_for)`
  - Prefix the name with the blueprint name: "`auth.login`"
  - From within the blueprint itself: "`.login`"

Resources

- **https://github.com/mgood/flask-debugtoolbar**
  - (http://goo.gl/d6Lewt)

- **https://pythonhosted.org/Flask-Testing/**
  - (http://goo.gl/ZZOjtP)

- **https://nose.readthedocs.org/en/latest/**
  - (http://goo.gl/L3tWvH)

- **http://flask.pocoo.org/docs/latest/blueprints/**
  - (http://goo.gl/VWk3cU)

- **http://flask.pocoo.org/docs/latest/patterns/appfactories/**
  - (http://goo.gl/zzl4hu)

- **http://flask.pocoo.org/docs/latest/config/**
  - (http://goo.gl/qQVEkU)

Summary

- **Flask Debug Toolbar**

- **Blueprints**

- **App factory**

- **Dynamic Configuration**

- **Unit Testing**