Message Flashing

Good applications and user interfaces are all about feedback. If the user does not get enough feedback they will probably end up hating the application. Flask provides a really simple way to give feedback to a user with the flashing system. The flashing system basically makes it possible to record a message at the end of a request and access it next request and only next request. This is usually combined with a layout template that does this. Note that browsers and sometimes web servers enforce a limit on cookie sizes. This means that flashing messages that are too large for session cookies causes message flashing to fail silently.

Simple Flashing

So here is a full example:

```
from flask import Flask, flash, redirect, render template, \
     request, url for
app = Flask(__name__)
app.secret key = b' 5\#y2L"F4Q8z\n\xec]/'
@app.route('/')
def index():
    return render template('index.html')
@app.route('/login', methods=['GET', 'POST'])
def login():
    error = None
    if request.method == 'POST':
        if request.form['username'] != 'admin' or \
                request.form['password'] != 'secret':
            error = 'Invalid credentials'
        else:
            flash('You were successfully logged in')
            return redirect(url_for('index'))
    return render_template('login.html', error=error)
```

And here is the layout.html template which does the magic:

```
<!doctype html>
<title>My Application</title>
{% with messages = get_flashed_messages() %}
{% if messages %}
```

```
{% for message in messages %}
     {{ message }}
     {% endfor %}

    {% endif %}
{% endwith %}
{% block body %}{% endblock %}
```

Here is the index.html template which inherits from layout.html:

```
{% extends "layout.html" %}
{% block body %}
  <h1>0verview</h1>
  Do you want to <a href="{{ url_for('login') }}">log in?</a>
{% endblock %}
```

And here is the login.html template which also inherits from layout.html:

```
{% extends "layout.html" %}
{% block body %}
 <h1>Login</h1>
 {% if error %}
    <strong>Error:</strong> {{ error }}
  {% endif %}
 <form method=post>
   <dl>
      <dt>Username:
     <dd><input type=text name=username value="{{</pre>
          request.form.username }}">
      <dt>Password:
      <dd><input type=password name=password>
   </dl>
    <input type=submit value=Login>
 </form>
{% endblock %}
```

Flashing With Categories

▶ Changelog

It is also possible to provide categories when flashing a message. The default category if nothing is provided is 'message'. Alternative categories can be used to give the user better feedback. For example error messages could be displayed with a red background.

To flash a message with a different category, just use the second argument to the **flash()** function:

```
flash(u'Invalid password provided', 'error')
```

Inside the template you then have to tell the **get_flashed_messages()** function to also return the categories. The loop looks slightly different in that situation then:

This is just one example of how to render these flashed messages. One might also use the category to add a prefix such as Error: to the message.

Filtering Flash Messages

► Changelog

Optionally you can pass a list of categories which filters the results of **get_flashed_messages()**. This is useful if you wish to render each category in a separate block.