Google App Engine Adding a Login Screen

ae-08-login

Textbook: Using Google App Engine (Chapter 6)

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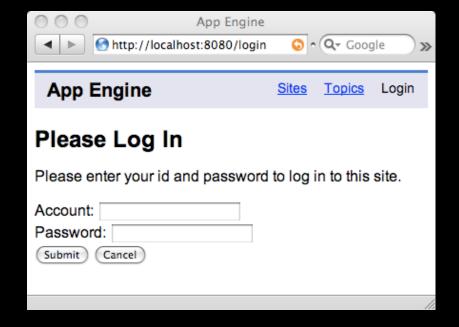






Adding a Login Screen

- One of the benefits of using a "Base" template and extending it is the ability to easily add new screens
- We will quickly add a login screen to our application



Steps

- Make a bit of utility code to do the render steps
- Determine a URL for the login screen
 - GET will display the screen
 - POST will check the password and optionally log you in
- Add a LoginHandler and add a route for /login to that handler
- Build the template for loginscreen.htm
- Build the Python code for LoginHandler

```
def doRender(handler, tname='index.htm', values={}):
    temp = os.path.join(
        os.path.dirname(file),
        'templates/' + tname)
    if not os.path.isfile(temp):
        return False
    # Make a copy and add the path
    newval = dict(values)
    newval['path'] = handler.request.path
    outstr = template.render(temp, newval)
    handler.response.out.write(outstr)
    return True
```



/login will be our path for the login screen

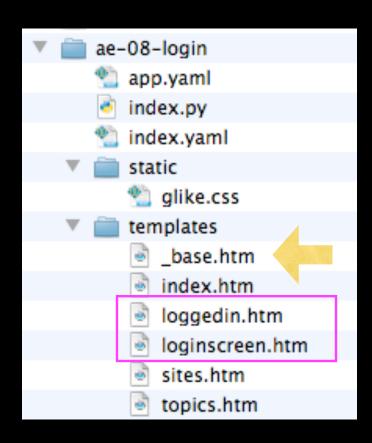
GET = display the screen

POST = check the password

```
class LoginHandler(webapp.RequestHandler):
    def get(self):
        doRender(self, 'loginscreen.htm')
def main():
    application = webapp.WSGIApplication([
         ('/login', LoginHandler),
         ('/.*', MainHandler)],
         debug=True)
    wsgiref.handlers.CGIHandler().run(application)
           == ' main ':
if
     name
    main()
```

Modify _base.htm

Add two new template files



base.htm

```
<a href="sites.htm"</pre>
        {% ifequal path '/sites.htm' %}
             class="selected"
        {% endifequal %}
      >Sites</a>
 <a href="topics.htm"</pre>
        {% ifequal path '/topics.htm' %}
             class="selected"
        {% endifequal %}
     >Topics</a>
  <a href="/login"</p>
        {% ifequal path '/login' %}
             class="selected"
        {% endifequal %}
     >Login</a>
```

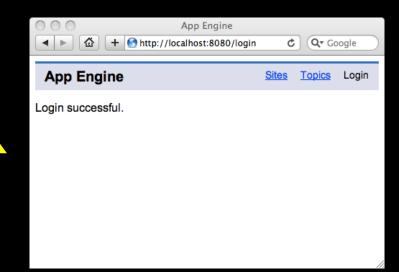
```
{% extends " base.htm" %}
{% block bodycontent %}
     <h2>Please Log In</h2>
     <q>>
     Please enter your id and password to log in to this site.
     <form method="post" action="/login">
     Account: <input type="text" name="account"/> <br>
     Password: <input type="password" name="password"/> <br/>
     <input type="submit" value="Login"/>
     <input type="submit" value="Cancel"</pre>
          onclick="window.location='/'; return false;"/>
     </form>
     {% endblock %}
```

loginscreen.htm

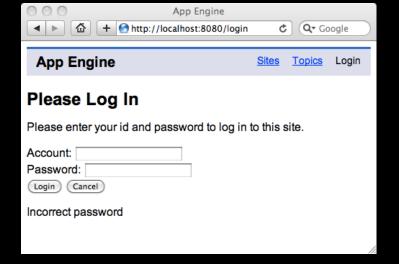
Handling the POST

- The incoming fields come as "account" and "password"
- We check for empty fields, or bad password, and if the users knows the right password, we give them a nice message.









```
def post(self):
    acct = self.request.get('account')
    pw = self.request.get('password')
    logging.info('Checking account='+acct+' pw='+pw)
    if pw == '' or acct == '':
        doRender (
            self,
            'loginscreen.htm',
            {'error' : 'Specify Acct and PW'} )
    elif pw == 'secret':
        doRender(self,'loggedin.htm',{ } )
    else:
        doRender (
            self,
            'loginscreen.htm',
             {'error' : 'Incorrect password'} )
```

```
{% extends " base.htm" %}
{% block bodycontent %}
     <h2>Please Log In</h2>
     >
     Please enter your id and password to log in to this site.
     >
     <form method="post" action="/login">
     Account: <input type="text" name="account"/> <br>
     Password: <input type="password" name="password"/> <br/>
     <input type="submit" value="Login"/>
     <input type="submit" value="Cancel"</pre>
         onclick="window.location='/'; return false;"/>
     </form>
     {% ifnotequal error None %}
      >
      {{ error }}
      <q\>
                                                 loginscreen.htm
      {% endifnotequal %}
{% endblock %}
```

