

## Chapter 5:

```
import logging
import wsgiref.handlers
from google.appengine.ext import webapp

class MainHandler(webapp.RequestHandler):

    formstring = '''<form method="post" action="/">
<p>Enter Guess: <input type="text" name="guess"/></p>
<p><input type="submit"></p>
</form>'''

    def get(self):
        self.response.out.write('<p>Good luck!</p>\n')
        self.response.out.write(self.formstring)

    def post(self):
        stguess = self.request.get('guess')
        logging.info('User guess='+stguess)
        try:
            guess = int(stguess)
        except:
            guess = -1

        answer = 42
        if guess == answer:
            msg = 'Congratulations'
        elif guess < 0 :
            msg = 'Please provide a number guess'
        elif guess < answer:
            msg = 'Your guess is too low'
        else:
            msg = 'Your guess is too high'

        self.response.out.write('<p>Guess:'+stguess+'</p>\n')
        self.response.out.write('<p>'+msg+'</p>\n')
        self.response.out.write(self.formstring)

def main():
    application = webapp.WSGIApplication(
        [('/', '*', MainHandler)],
        debug=True)
    wsgiref.handlers.CGIHandler().run(application)

if __name__ == '__main__':
    main()
```

```

# ae-08-login
import os
import logging
import wsgiref.handlers
from google.appengine.ext import webapp
from google.appengine.ext.webapp import template

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 of the dictionary and add the path
    newval = dict(values)
    newval['path'] = handler.request.path

    outstr = template.render(temp, newval)
    handler.response.out.write(outstr)
    return True

class LoginHandler(webapp.RequestHandler):

    def get(self):
        doRender(self, 'loginscreen.htm')

    def post(self):
        acct = self.request.get('account')
        pw = self.request.get('password')

        if pw == '' or acct == '':
            doRender(
                self,
                'loginscreen.htm',
                {'error' : 'Please specify Acct and PW'} )
        elif pw == 'secret':
            doRender(self, 'loggedin.htm', { } )
        else:
            doRender(
                self,
                'loginscreen.htm',
                {'error' : 'Incorrect password'} )

class MainHandler(webapp.RequestHandler):

    def get(self):

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        path = self.request.path
        if doRender(self,path) :
            return
        if doRender(self,'index.htm') :
            return
        self.response.out.write('Error - unable to find
index.htm')

def main():
    application = webapp.WSGIApplication([
        ('/login', LoginHandler),
        ('/*', MainHandler)],
        debug=True)
    wsgiref.handlers.CGIHandler().run(application)

if __name__ == '__main__':
    main()

```

### loginscreen.htm:

```

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

```

### loggedin.htm:

```

{% extends "_base.htm" %}
{% block bodycontent %}
    <p>
        Login successful.
    </p>
{% endblock %}

```

```

# ae-09-session
import os
import logging
import wsgiref.handlers
from google.appengine.ext import webapp
from google.appengine.ext.webapp import template
from util.sessions import Session

# A helper to do the rendering and to add the necessary
# variables for the _base.htm template
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 of the dictionary and add the path and
    session
    newval = dict(values)
    newval['path'] = handler.request.path
    handler.session = Session()
    if 'username' in handler.session:
        newval['username'] = handler.session['username']

    outstr = template.render(temp, newval)
    handler.response.out.write(outstr)
    return True

class LoginHandler(webapp.RequestHandler):

    def get(self):
        doRender(self, 'loginscreen.htm')

    def post(self):
        self.session = Session()
        acct = self.request.get('account')
        pw = self.request.get('password')
        logging.info('Checking account='+acct+' pw='+pw)

        self.session.delete_item('username')

        if pw == '' or acct == '':
            doRender(
                self,
                'loginscreen.htm',

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        {'error' : 'Please specify Account and Password'}
    )
    elif pw == 'secret':
        self.session['username'] = acct
        doRender(self, 'index.htm', { } )
    else:
        doRender(self, 'loginscreen.htm',
            {'error' : 'Incorrect password'} )

class LogoutHandler(webapp.RequestHandler):

    def get(self):
        self.session = Session()
        self.session.delete_item('username')
        doRender(self, 'index.htm')

class MainHandler(webapp.RequestHandler):

    def get(self):
        if doRender(self, self.request.path) :
            return
        doRender(self, 'index.htm')

def main():
    application = webapp.WSGIApplication([
        ('/login', LoginHandler),
        ('/logout', LogoutHandler),
        ('/*', MainHandler)],
        debug=True)
    wsgiref.handlers.CGIHandler().run(application)

if __name__ == '__main__':
    main()

```