

Google App Engine – User Auth !

Richard Ngamita
Developer Relations
Google Africa Team

Authentication !

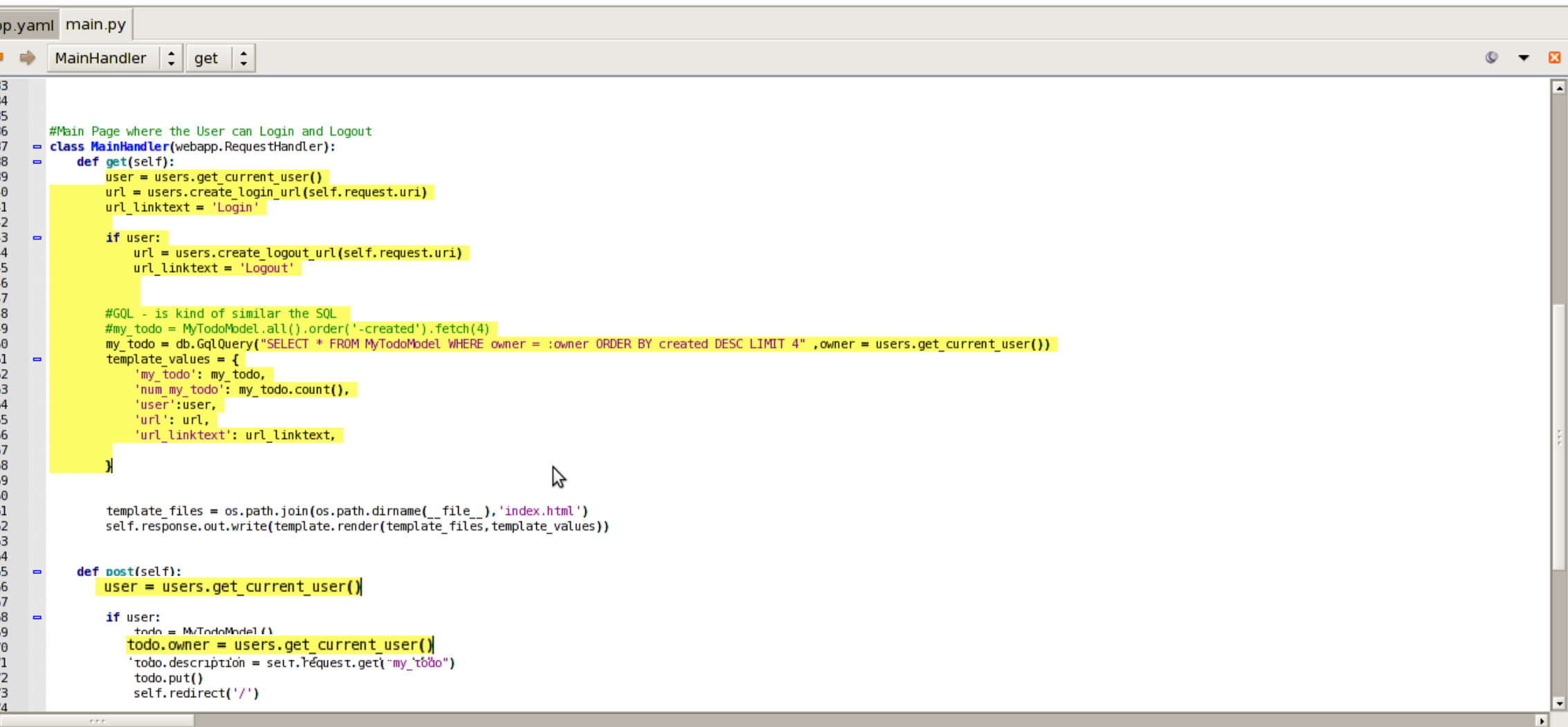
Authenticating Users and the Admin..



Import Users

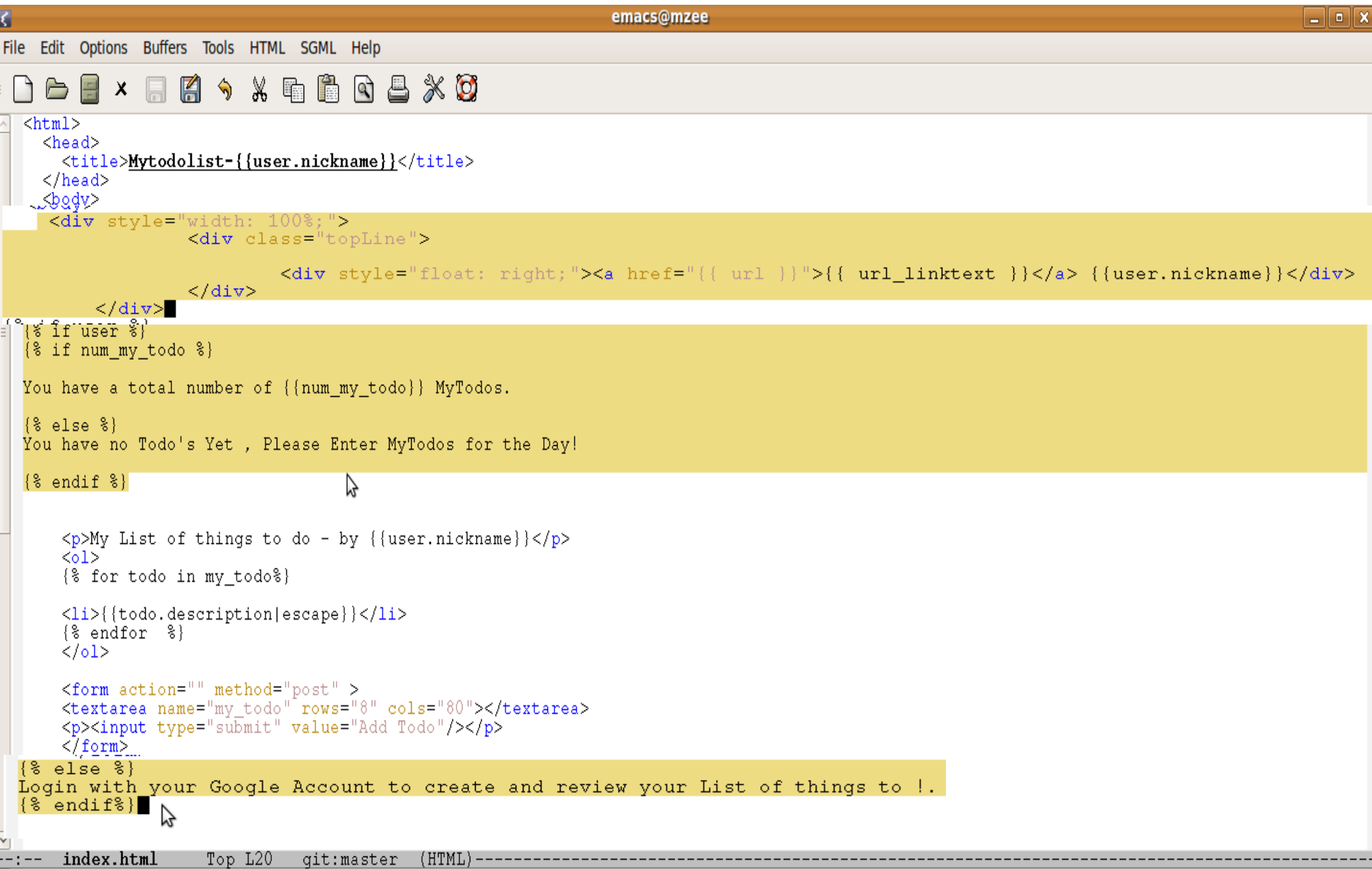
```
app.yaml  main.py
(top)
20
21
22 from google.appengine.ext import webapp
23 from google.appengine.ext.webapp import util
24 from google.appengine.ext.webapp import template
25 from google.appengine.ext import db
26 from google.appengine.api import users
27
28
29 = class MyTodoModel(db.Model):
30     owner = db.UserProperty()
31     description = db.StringProperty()
32     created = db.DateTimeProperty(auto_now_add = True)
33
34
35
36 #Main Page where the User can Login and Logout
37 = class MainHandler(webapp.RequestHandler):
38     def get(self):
39         user = users.get_current_user()
40         url = users.create_login_url(self.request.uri)
41         url_linktext = 'Login'
42
43         if user:
44             url = users.create_logout_url(self.request.uri)
45             url_linktext = 'Logout'
46
47
48 #GQL - is kind of similar the SQL
49 #my_todo = MyTodoModel.all().order('-created').fetch(4)
50 my_todo = db.GqlQuery("SELECT * FROM MyTodoModel WHERE owner = :owner" ER BY created DESC LIMIT 4" , "owner = users.get_current_user()")
51 = template_values = {
52     'my_todo': my_todo,
53     'num_my_todo': my_todo.count(),
54     'user':user,
55     'url': url,
56     'url_linktext': url_linktext,
57
58 }
59
60
61 template_files = os.path.join(os.path.dirname( file ), 'index.html')
```

Add Login & Logout .



```
3
4
5
6 #Main Page where the User can Login and Logout
7 class MainHandler(webapp.RequestHandler):
8     def get(self):
9         user = users.get_current_user()
10        url = users.create_login_url(self.request.uri)
11        url_linktext = 'Login'
12
13        if user:
14            url = users.create_logout_url(self.request.uri)
15            url_linktext = 'Logout'
16
17        #GQL - is kind of similar the SQL
18        #my_todo = MyTodoModel.all().order('-created').fetch(4)
19        my_todo = db.GqlQuery("SELECT * FROM MyTodoModel WHERE owner = :owner ORDER BY created DESC LIMIT 4", owner = users.get_current_user())
20
21        template_values = {
22            'my_todo': my_todo,
23            'num_my_todo': my_todo.count(),
24            'user': user,
25            'url': url,
26            'url_linktext': url_linktext,
27        }
28
29        template_files = os.path.join(os.path.dirname(__file__), 'index.html')
30        self.response.out.write(template.render(template_files, template_values))
31
32    def post(self):
33        user = users.get_current_user()
34
35        if user:
36            todo = MyTodoModel()
37            todo.owner = users.get_current_user()
38            todo.description = self.request.get("my_todo")
39            todo.put()
40            self.redirect('/')
41
42
43
44
```

My to do List - index.html changes ...



```
<html>
<head>
<title>Mytodolist-{{user.nickname}}</title>
</head>
<body>
<div style="width: 100%;">
  <div class="topLine">
    <div style="float: right;"><a href="{{ url }}">{{ url_linktext }}</a> {{user.nickname}}</div>
  </div>
</div>
{% if user %}
{% if num_my_todo %}
You have a total number of {{num_my_todo}} MyTodos.

{% else %}
You have no Todo's Yet , Please Enter MyTodos for the Day!

{% endif %}

<p>My List of things to do - by {{user.nickname}}</p>
<ol>
{% for todo in my_todo%}

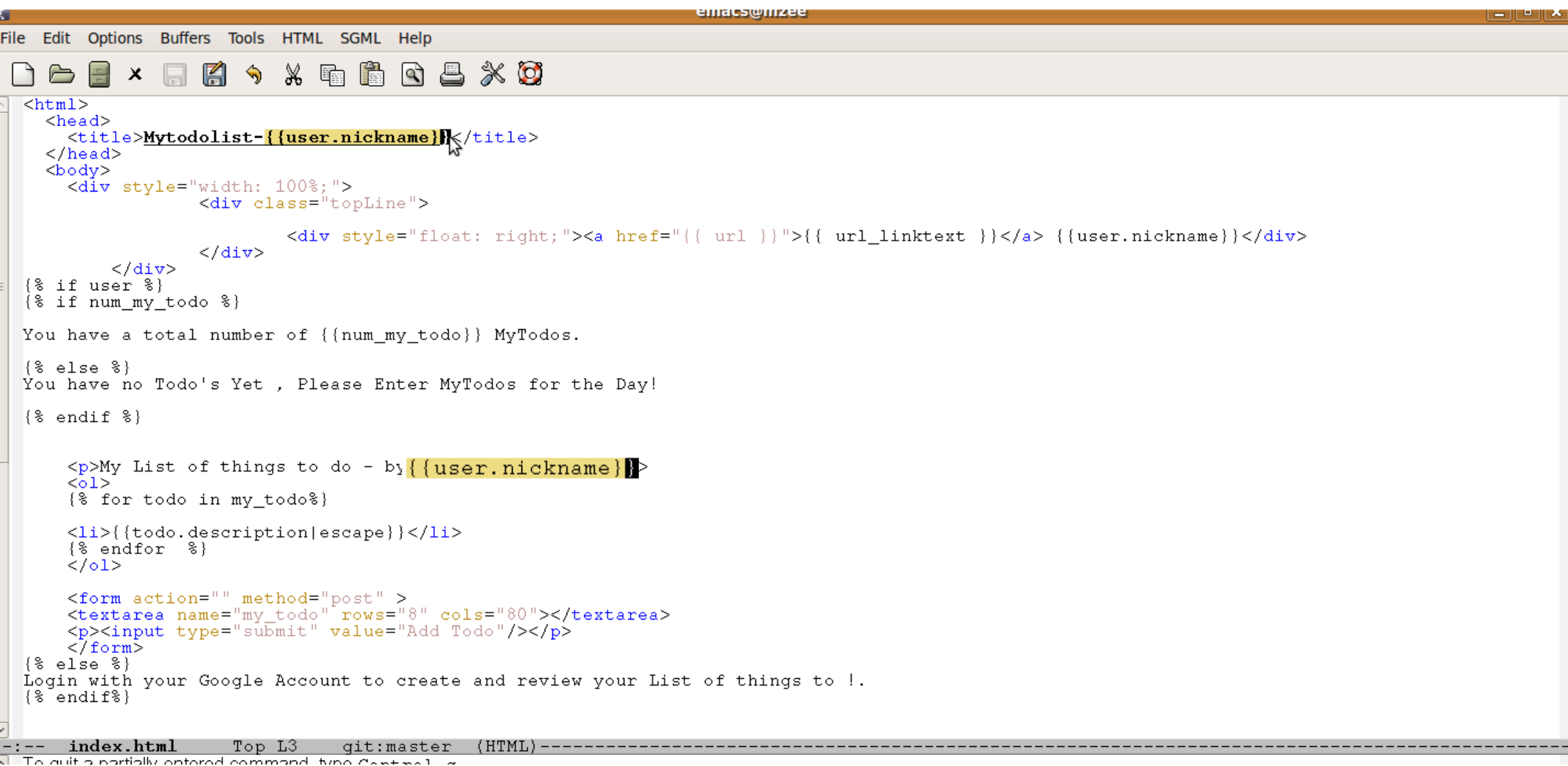
<li>{{todo.description|escape}}</li>
{% endfor %}
</ol>

<form action="" method="post" >
<textarea name="my_todo" rows="8" cols="80"></textarea>
<p><input type="submit" value="Add Todo"/></p>
</form>

{% else %}
Login with your Google Account to create and review your List of things to !.
{% endif %}
```

index.html Top L20 git:master (HTML)

My to do List - index.html changes...



```
<html>
<head>
<title>Mytodolist-{{user.nickname}}</title>
</head>
<body>
<div style="width: 100%;">
  <div class="topLine">

    <div style="float: right;"><a href="{{ url }}">{{ url_linktext }}</a> {{user.nickname}}</div>

  </div>
  {% if user %}
  {% if num_my_todo %}

You have a total number of {{num_my_todo}} MyTodos.

  {% else %}
You have no Todo's Yet , Please Enter MyTodos for the Day!

  {% endif %}

  <p>My List of things to do - by {{user.nickname}}>
  <ol>
  {% for todo in my_todo%}

  <li>{{todo.description|escape}}</li>
  {% endfor %}
  </ol>

  <form action="" method="post" >
  <textarea name="my_todo" rows="8" cols="80"></textarea>
  <p><input type="submit" value="Add Todo"/></p>
  </form>

  {% else %}
Login with your Google Account to create and review your List of things to !.
  {% endif%}

-- index.html Top L3 git:master (HTML)
To quit a partially entered command, type C-g C-g
```

Thank You

Questions?

