

Autenticación y Autorización

En Django

Mario García Valdez

Autenticación y Autorización en Django

Incluido

- Usuarios
- Permisos
- Grupos
- Password Hashing
- Formas y vistas para permitir el acceso de usuarios o restringir el contenido

Contribuciones

- Prueba de fortaleza de Passwords
- Limite de la tasa de intentos
- Autenticación contra terceros (OAuth)
- Permisos a nivel de objetos

Autenticación

```
from django.contrib.auth.models import User
user = User.objects.create_user("john", "lennon@thebeatles.com", "johnpassword")

# El usuario ya está almacenado en la base de datos

user.last_name = "Lennon"
user.set_password("new password")

user.save()
```

`authenticate(request=None, **credentials)`

```
from django.contrib.auth import authenticate
user = authenticate(username="john", password="secret")
if user is not None:
    # El usuario ha sido autenticado por algún backend
    ...
else:
    # Ningún backend pudo autenticar al usuario
    ...
```

Autenticación en peticiones web

```
if request.user.is_authenticated:
    # El usuario está autenticado
    ...
else:
    # Usuario anónimo
    ...
```

@login_required

```
from django.contrib.auth.decorators import login_required

@login_required
def my_view(request):
    ...
```

Acceso peticiones web

```
from django.contrib.auth import authenticate, login, logout

def my_view(request):
    username = request.POST["username"]
    password = request.POST["password"]
    user = authenticate(request, username=username, password=password)

    if user is not None:
        login(request, user)
        # Redirect to a success page.
        ...
    else:
        # Return an 'invalid login' error message.
        ...

def logout_view(request):
    logout(request)
    # Redirect to a success page.
```

Vistas de Autenticación

```
urlpatterns = [  
    path("accounts/", include("django.contrib.auth.urls")),  
]
```

```
accounts/login/ [name='login']  
accounts/logout/ [name='logout']  
accounts/password_change/ [name='password_change']  
accounts/password_change/done/ [name='password_change_done']  
accounts/password_reset/ [name='password_reset']  
accounts/password_reset/done/ [name='password_reset_done']  
accounts/reset/<uidb64>/<token>/ [name='password_reset_confirm']  
accounts/reset/done/ [name='password_reset_complete']
```

Vistas de Autenticación y Plantillas

```
path('accounts/login/',
     auth_views.LoginView.as_view(template_name='registration/login.html')),

path('accounts/logout/',
     auth_views.LogoutView.as_view()),

path('accounts/password_reset/',
     auth_views.PasswordResetView.as_view()),

path('accounts/password_change/',
     auth_views.PasswordChangeView.as_view(), name='password_change'),

path('accounts/password_change/done/',
     auth_views.PasswordChangeDoneView.as_view(), name='password_change_done'),

path('accounts/password_reset/',
     auth_views.PasswordResetView.as_view(), name='password_reset'),

path('accounts/password_reset/done/',
     auth_views.PasswordResetDoneView.as_view(), name='password_reset_done'),

path('accounts/reset/<uidb64>/<token>/',
     auth_views.PasswordResetConfirmView.as_view(), name='password_reset_confirm'),

path('accounts/reset/done/',
     auth_views.PasswordResetCompleteView.as_view(), name='password_reset_complete'),
```



```
{% extends "base.html" %}
```

```
{% block content %}
```

```
{% if form.errors %}
```

```
<p>Your username and password didn't match. Please try  
again.</p>
```

```
{% endif %}
```

```
{% if next %}
```

```
    {% if user.is_authenticated %}
```

```
    <p>Your account doesn't have access to this page.
```

```
To proceed,
```

```
    please login with an account that has access.</p>
```

```
    {% else %}
```

```
    <p>Please login to see this page.</p>
```

```
    {% endif %}
```

```
{% endif %}
```

```
<form method="post" action="{% url 'login'  
%}">
```

```
{% csrf_token %}
```

```
<table>
```

```
<tr>
```

```
    <td>{{ form.username.label_tag }}</td>
```

```
    <td>{{ form.username }}</td>
```

```
</tr>
```

```
<tr>
```

```
    <td>{{ form.password.label_tag }}</td>
```

```
    <td>{{ form.password }}</td>
```

```
</tr>
```

```
</table>
```

```
<input type="submit" value="login">
```

```
<input type="hidden" name="next"
```

```
value="{{ next }}">
```

```
</form>
```

```
{# Assumes you set up the password_reset view  
in your URLconf #}
```

```
<p><a href="{% url 'password_reset' %}">Lost  
password?</a></p>
```

```
{% endblock %}
```