Lab 6 Part 6

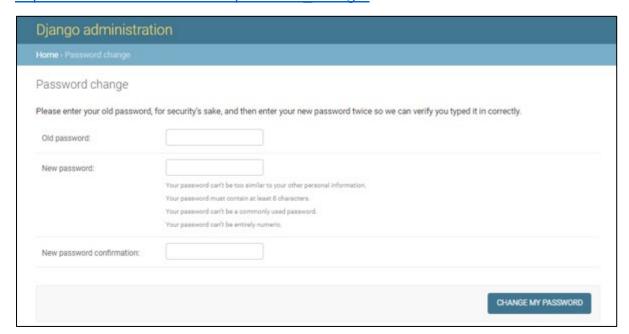
Password Change & Reset

In this exercise we will add new functionality to the newspaper project to so that users will be able to change their current password or, if they've forgotten it, to reset it via email.

Initially we will implement Django's built-in views and URLs for both password change and password reset before then customizing them with our own Bootstrap-styled templates.

Step 1 - Password Change

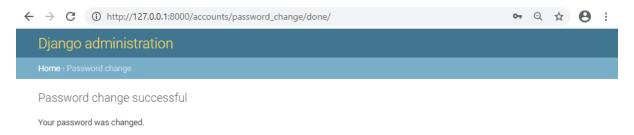
Django provides a default implementation that already works at this stage. To try it out launch the server and click on the "Log In" button to make sure you are logged in. Then navigate to the "Password change" page at http://127.0.0.1:8080/accounts/password change/.



Enter in both your old password and then a new one. Then click the "Change My Password" button.

You will be redirected to the "Password change successful" page located at:

http://127.0.0.1:8000/accounts/password change/done/.



Customizing password change

Next, we will change these two password change pages so that they match the look and feel of our Newspaper site. Because Django already has created the views and URLs for us, we only need to add new templates.

In VS Code create a file **password_change_form.html** in the **registration** directory and update it with the following code:

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

{% block title %}Password Change{% endblock title %}

{% block content %}

<h1>Password change</h1>
Please enter your old password, for security's sake, and then enter your new password twice so we can verify you typed it in correctly.

<form method="POST">

{% csrf_token %}

{{ form.as_p }}

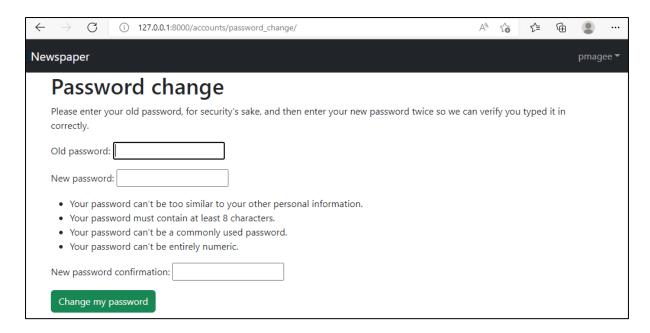
<input class="btn btn-success" type="submit" value="Change my password">

</form>

{% endblock content %}
```

At the top we extend **base.html** and set our page title. Because we used "block" titles in our **base.html** file we can override them here. The form uses POST since we are sending data and a csrf_token for security reasons. By using form.as_p we are simply displaying in paragraphs the content of the default password reset form. And finally, we include a submit button that uses Bootstrap's btn btn-success styling to make it green.

Reload the page at http://127.0.0.1:8080/accounts/password_change/ to see our changes.



In VS Code create a file **password_change_done.html** in the **registration** directory and update it with the following code:

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

{% block title %}Password Change Successful{% endblock title %}

{% block content %}

<h1>Password change successful</h1>
Your password was changed.
{% endblock content %}
```

Now if you go ahead and change your password you should see the following page:



Password Reset

Password reset handles the common case of users forgetting their passwords. The steps are very similar to configuring password change, as we just did. Django already provides a default implementation that we will use and then customize the templates, so it matches the rest of our site.

The only configuration required is telling Django how to send emails. After all, a user can only reset a password if they have access to the email linked to the account. For testing purposes, we can rely on Django's console backend setting which outputs the email text to our command line console.

At the bottom of the **settings.py** file make the following one-line change.

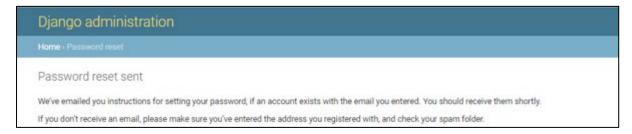
135 EMAIL_BACKEND = 'django.core.mail.backends.console.EmailBackend'

Access the page at http://127.0.0.1:8080/accounts/password reset/



Make sure the email address you enter matches one of your Django user accounts. Upon submission you will then be redirected to the password reset done page at:

http://127.0.0.1:8080/accounts/password_reset/done/.



The message above says to check our email. Since we've told Django to send emails to the command line console, the email text will now be there – see below:

```
Quit the server with CTRL-BREAK.

[11/Oct/2023 17:36:33] "GET /accounts/password_reset/ HTTP/1.1" 200 3358
[11/Oct/2023 17:37:50] "POST /accounts/password_reset/ HTTP/1.1" 302 0
[11/Oct/2023 17:37:50] "GET /accounts/password_reset/done/ HTTP/1.1" 200 3014
Content-Type: text/plain; charset="utf-8"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Subject: Password reset on 127.0.0.1:8080
From: webmaster@localhost
To: s@s.com
Date: Wed, 11 Oct 2023 16:39:04 -0000
Message-ID: <169704234473.29940.9044588862887973077@TU-9MP4063.chello.ie>

You're receiving this email because you requested a password reset for your user account at 127.0.0.1:8080.
Please go to the following page and choose a new password:
http://127.0.0.1:8080/accounts/reset/Ng/bvx2d4-b3a76d27c7b9f416448200af0f476643/
Your username, in case you've forgotten: suser
Thanks for using our site!
The 127.0.0.1:8080 team
```

Your email text should be identical except for three lines:

- the "To" on the sixth line contains the email address of the user
- the URL link contains a secure token that Django randomly generates for us and can be used only once
- Django helpfully reminds us of our username

Copy the link you received which is like that shown below into your browser and you will be redirected to the "change password page".

	Django administration
	Enter new password
	Please enter your new password twice so we can verify you typed it in correctly.
	New password:
	Confirm password:
	Change my password
	ow enter in a new password and click on the "Change my password" button. The
tin	al step is you will be redirected to the "Password reset complete" page.

Now enter in a new password and click on the "Change my password" button. The final step is you will be redirected to the "Password reset complete" page.

Django administration Home - Password reset Password reset complete Your password has been set. You may go ahead and log in now. Log in

To confirm everything worked, click on the "Log in" link and use your new password. It should work.

Custom Templates

As with "Password change" we only need to create new templates to customize the look and feel of password reset.

In VS Code create a file **password_reset_form.html** in the **registration** directory and update it with the following code:

```
{% extends 'base.html' %}
{% load crispy_forms_tags %}
{% block title %}Forgot Your Password?{% endblock title %}

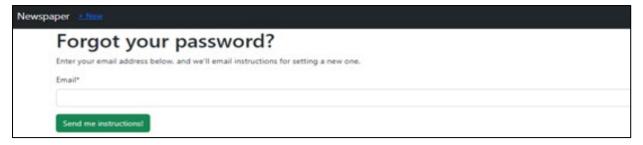
{% block content %}
<h1>Forgot your password?</h1>
Enter your email address below, and we'll email instructions for setting
a new one.

<form method="POST">
{% csrf_token %}
{{ form | crispy }}
<input class="btn btn-success" type="submit" value="Send me instructions!">
</form>
{% endblock content %}
```

Start up the server again with python manage.py runserver. Navigate to:

http://127.0.0.1:8080/accounts/password reset/.

Refresh the page you can see our new page.



Now we can update the other three pages. Each takes the same form of extending base.html, a new title, new content text, and for password_reset_confirm.html an updated form as well.

In VS Code create a file **password_reset_done.html** in the **registration** directory and update it with the following code:

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

{% block title %}Email Sent{% endblock title %}

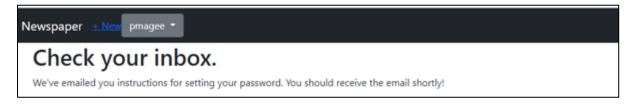
{% block content %}

<h1>Check your inbox.</h1>
We've emailed you instructions for setting your password.

You should receive the email shortly!

{% endblock content %}
```

When you click the "Send me instructions" button you should see the following screen:



In VS Code create a file **password_reset_confirm.html** in the **registration** directory and update it with the following code:

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

{% load crispy_forms_tags %}

{% block title %}Enter new password{% endblock title %}

{% block content %}

<h1>Set a new password!</h1>
<form method="POST">

{% csrf_token %}

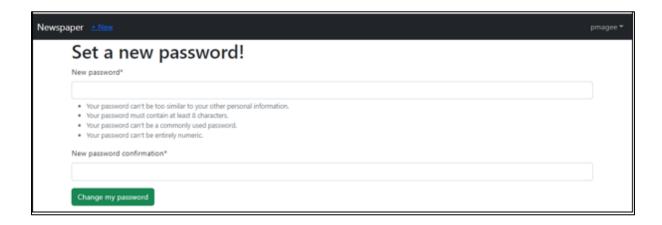
{{ form | crispy }}

<input class="btn btn-success" type="submit" value="Change my password">

</form>

{% endblock content %}
```

In the command line grab the URL link from the email outputted to the console and paste it into the address bar of the browser and you will see the following.



In VS Code create a file **password_reset_complete.html** in the **registration** directory and update it with the following code:

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

{% block title %}Password reset complete{% endblock title %}

{% block content %}

<h1>Password reset complete</h1>
Your new password has been set. You can log in now on the
<a href="{% url 'login' %}">Log In page</a>.
{% endblock content %}
```

You can view it at http://127.0.0.1:8080/accounts/reset/done/.



Run the following git commands to update the local and remote repositories:

git add -A git commit -m "lab 6 part 6" git push -u origin main