# **Topic: Registration Module: Part 14**

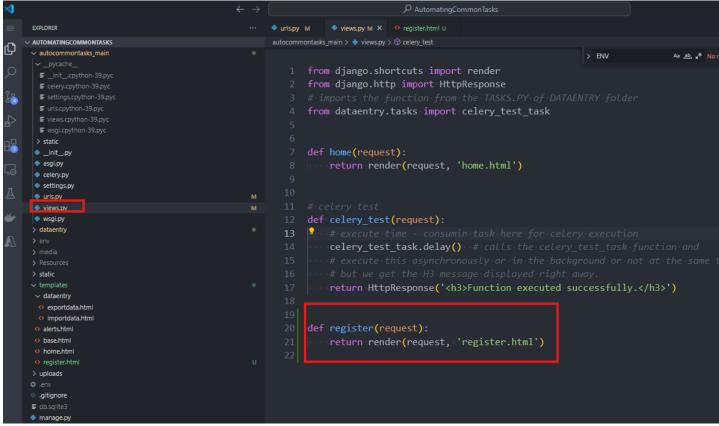
## Speaker: Udemy Instructor Rathan Kumar | Notebook: Django: Automating Common Tasks



1. We need a URL pattern like http://127.0.0.1:8000/register/, so in the main project's URLS.PY.

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=	EXPLORER		♥ urispy M ×
-	✓ AUTOMATINGCOMMONTASKS		autocommontasks_main > 🔹 urls.py >
L)	✓ autocommontasks_main		8 1. Add an import: from my_app import views
$\sim$			9 2. Add a URL to urlpatterns: path('', views.home, name='home')
	initcpython-39.pyc		10 Class-based views
0.	E celery.cpython-39.pyc		
j 🔁	settings.cpython-39.pyc		11 . Add an import: from other_app.views import Home
~	■ urls.cpython-39.pyc		12 2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
<a>b</a>	F views.cpython-39.pyc		13 Including another URLconf
_ 0	wsgi.cpython-39.pyc static		14 1. Import the include() function: from django.urls import include, path
8	<ul> <li>static</li> <li>initpy</li> </ul>		15 2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
			16 """
	<ul> <li>↓ celery.py</li> </ul>		17 from django.contrib import admin
_	<pre>settings.py</pre>		
A	🔹 uris.py		
	🔹 views.py		19 from . import views
- <b></b>	🔹 wsgi.py		20 from django.conf.urls.static import static
	> dataentry		21 from django.conf import settings
			22
			23 urlpatterns == [
	> Resources		24 weighted admin/', admin.site.urls),
	> static		
	✓ templates ✓ dataentry		<pre>25 path('', views.home, name='home'),</pre>
	exportdata.html		26 # links to our dataentry app's URLS.PY
	importdata.html		<pre>27path('dataentry/', include('dataentry.urls')),</pre>
	♦ alerts.html		28 path('celery-test/', views.celery_test),
	♦ base.html		29 # registration and login
	o home.html		30 path('register/', views.register, name='register'),
	> uploads		31
			32 ]+ static(settings.MEDIA URL, document root=settings.MEDIA ROOT)
	♦ .gitignore		
	■ db.sqlite3		33
	🍨 manage.py		

2. Create the REGISTER function in VIEWS.PY:



3. Create the REGISTER.HTML in TEMPLATES.

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	×1		
★ ← → C ① http://127.0.0.1:8000/register/	EXPLORER		🕈 urls.py M 🔮 views.py M 🔗 register.html U 🗙
Register	<ul> <li>✓ AUTOMATINGCOMMONTASKS</li> <li>✓ AUTOMATINGCOMMONTASKS</li> <li>✓ autocommontasks_main</li> <li>✓ _pycache_</li> <li>F _initcpython-39.pyc</li> <li>E celery.cpython-39.pyc</li> <li>E view.cpython-39.pyc</li> <li>E view.cpython-39.pyc</li> <li>F view.cpython-39.pyc</li> <li>Static</li> <li>Init_py</li> <li>Settings.py</li> <li>Setings.py</li> <li>Set</li></ul>	M M M	<pre>templates &gt; O register.html &gt; O h2 1 <h2>Register</h2></pre>

4. We update our REGISTER.HTML to include our Django tags.

{%extends 'base.html' %}

{% block content %}

<we add our unique code here>

{% endblock %}

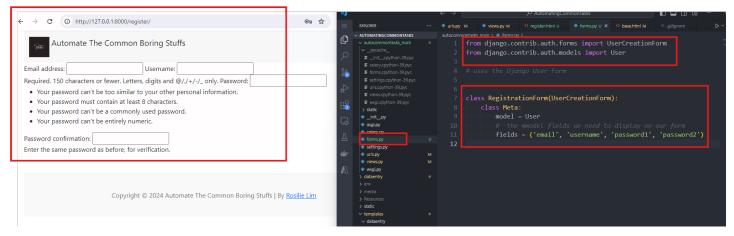
## 5. We update our BASE.HTML to link our webpages to REGISTER.HTML

· Scrungs.py		
🔹 uris.py		
🔹 views.py		<pre><div class="container"></div></pre>
🐢 wsgi.py		
> dataentry		<pre></pre> <pre> </pre> <pre>     <pre>     <pre>     <pre>      <pre>     <pre>    <pre>    <pre>    <pre>    <pre>    <pre>    <pre>    <pre>    <!--</th--></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
		<pre></pre>
		<pre>control control c</pre>
> static		<pre><img <="" alt="" height="50" pre="" src="{% static 'images/rnl_logo3.png' %}" width="50"/></pre>
✓ templates		<pre>class="d-inline-block_align-text-top"&gt;</pre>
✓ dataentry		
♦ exportdata.html		Automate The Common Boring Stuffs
<ul> <li>importdata.html</li> </ul>		
↔ alerts.html		<pre></pre> <pre>&lt;</pre>
♦ base.html		<pre><a class="float-right text-decoration-none text-dark" href="">Login</a></pre>
home.html	31	<pre> <a class="float-right btn btn-primary" href="{% url 'register' %}">Register</a></pre>
♦ register.html		
> uploads		······································
		······································
<ul> <li>gitignore</li> </ul>		
🖬 db.sqlite3		
🍨 manage.py		
		·····{% block content %}

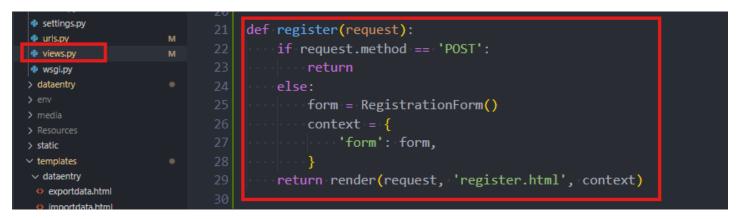
6. To create the registration form, we can manually create the UI form or automate this using DJANGO MODEL FORM (similar to our Admin Panel User Registration) WITH CRISPY TO FORMAT IT.

art typing to filter		The user "tammy20	24" was added successfully. You may edit it	again below.		
AUTHENTICATION AND AUTHORIZATION						
Groups	+ Add	Change user				
Jsers	+ Add	tammy2024				
		Username:	tammy2024			
DATAENTRY			Required. 150 characters or fewer. Letters,	digits and @/./+/-/_ only.		
ustomers	+ Add	Password:	algorithm: pbkdf2_sha256 iteration	<b>15:</b> 600000 <b>salt:</b> WKYjHU	*******	***** <b>hash:</b> up4wRE************************************
mployees	+ Add		Raw passwords are not stored, so there is	no way to see this user's pass	word, but y	ou can change the password using this form.
tudents	+ Add					
		Personal info				
IPLOADS		First name:				
Jploads	+ Add					
		Last name:				
		Email address:				
		Permissions				
		Active				
		Designates whether this u	ser should be treated as active. Unselect this instead	f of deleting accounts.		
		□ Staff status				
		Designates whether the u	ser can log into this admin site.			
		Superuser status				
		Designates that this user I	nas all permissions without explicitly assigning them			
		Groups:	Available groups 😧			Chosen groups 😧
			Q Filter			Q Filter

7. Create a new file, FORMS.PY, in your main project directory.



#### 8. In our VIEWS.PY, we write:



#### 9. In our REGISTER.HTML, we write

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- 0 0 http://127.0.0.1.0000/register/	Con M	EXPLORER	··· 🔷 urle py	M de viewe py M C) register html
			templates	> 🔷 register.html >
Automate The Common Boring Stuffs				{%extends 'base.html' %}
Here a second		pycache    initcpython-39.pyc		{% block content %}
		E celery.cpython-39.pyc		
Email address: Username:		F forms.cpython-39.pyc		<form action=""></form>
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only. Password:		settings.cpython-39.pyc		••••{{•form•}}
Your password can't be too similar to your other personal information.		E uris.cpython-39.pyc		
<ul> <li>Your password must contain at least 8 characters.</li> </ul>		■ F views.cpython-39.pyc ■ F wsgi.cpython-39.pyc		
<ul> <li>Your password can't be a commonly used password.</li> </ul>		Static		{% endblock %}
		initpy		
<ul> <li>Your password can't be entirely numeric.</li> </ul>		asgi.py		
December of the strength of th				
Password confirmation:				
Enter the same password as before, for verification.		<ul> <li>settings.py</li> <li>urls.py</li> </ul>	м	
		<ul> <li>views.py</li> </ul>		
		🔬 🔹 wsgi.py		
		> dataentry		

#### 10. If we use the conventional way to set up the form, it shall be like this:

{%extends 'base.html' %}

{% block content %}

<form action="">

{{ form.as\_p }}

### </form>

{% endblock %}

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← → C ③ http://127.0.0.1:8000/register/	977	☆	≡	EXPLORER		🔹 urls,py M 🔹 views,py M 🔷 register.html U X 🍨 forms,py U 🗢 base.html M
Automate The Common Boring Stuffs			<b>()</b> ,0	<ul> <li>AUTOMATINGCOMMONTASKS</li> <li>autocommontasks_main</li> <li>_pycache_</li> <li>_initcpython-39.pyc</li> </ul>		<pre>templates &gt; o register/timl &gt; 1 {%extends 'base.html' %} 2 {% block content %} </pre>
Email address:	-/. c	only.		■ celery.cpython-39.pyc ■ forms.cpython-39.pyc ■ settings.cpython-39.pyc ■ urls.cpython-39.pyc ■ views.cpython-39.pyc ■ views.cpython-39.pyc ■ wsgl.cpython-39.pyc > static		4 <form action=""> 5  {{ form.as_p }} 6 </form> 7 8 {% endblock %}
<ul> <li>Your password can't be too similar to your other personal information.</li> <li>Your password must contain at least 8 characters.</li> <li>Your password can't be a commonly used password.</li> <li>Your password can't be entirely numeric.</li> </ul>				<ul> <li>initpy</li> <li>asgi.py</li> <li>celery.py</li> <li>celery.py</li> <li>settings.py</li> <li>settings.py</li> <li>urls.py</li> </ul>		
Password confirmation: Enter the same password as before, for verificat	ion.			<ul> <li>views.py</li> <li>wsgi.py</li> <li>dataentry</li> <li>env</li> <li>media</li> </ul>		
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				base.html     bome.html     register.html     uploads	M U	

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11. To format this form, we can use the CRISPY FORM. See this for the CRISPY FORM DOCUMENTATION.

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# **Template packs**

 uni-form Uni-form is a nice looking, well structured, highly customizable, accessible and usable forms.

In addition the following template packs are available through separately maintained projects.

- **foundation** Foundation In the creator's words, "The most advanced responsive front-end framework in the world." This template pack is available through crispy-forms-foundation
- tailwind Tailwind A utility first framework. This template pack is available through crispy-tailwind
- Bootstrap 5 Support for newer versions of Bootstrap will be in separate template packs. This starts with version 5 and is available through crispy-bootstrap5
- Bulma Bulma: the modern CSS framework that just works. This template pack
   is available through crispy-bulma

If your form CSS framework is not supported and it's open source, you can create a crispy-forms-templatePackName project. Please let me know, so I can link to it. Documentation on How to create your own template packs is provided.

You can set your default template pack for your project using the CRISPY\_TEMPLATE\_PACK Django settings variable:

CRISPY\_TEMPLATE\_PACK = 'uni\_form'

Please check the documentation of your template pack package for the correct value of the **CRISPY\_TEMPLATE\_PACK** setting (there are packages which provide more than one template pack).

Install Django Crispy Form: \$ pip install django-crispy-forms

In your SETTINGS.PY, register this in your INSTALLED\_APPS

36 37 39 10 11 12 13 14 15 16	<pre>INSTALLED_APPS = 'django.contri</pre>	ib.a ib.c ib.c ib.s ib.m	uth', ontentt essions essages	5', 5',			
+7	1						
					·		
	views.cpython-39.pyc		150	# 0		<u></u>	
0	subscription-39.pyc		158		y Form COn		
3	> static		159	CRISPY_	TEMPLATE_P	ACK = '	boots
_	🍨 _initpy						
ତ୍ର	🍨 asgi.py						
-	💠 celery.py						
7	🔹 forms.py	U					
	🔹 settings.py	м					

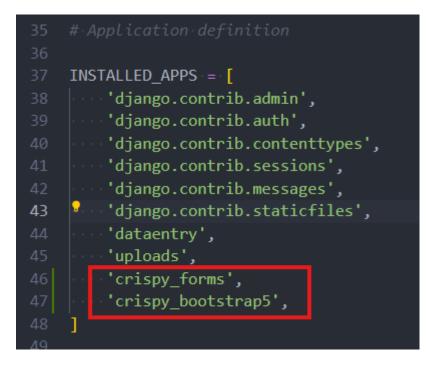
12. If you check your BASE.HTML the bootstrap we are using is version 5, that is why our CRISPY\_TEMPALTE\_PACK='bootstrap5' and so we need to install this as well.

strap5

\$ pip install crispy-bootstrap5

Register this in your INSTALLED\_APPS:

urls.py
 views.py



13. Update our REGISTER.HTML and reload:

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← → C (0) http://127.0.0.1:8000/register/	©≂ ☆	=	EXPLORER		🔹 uris.py	M 🌵 views.py M		🔹 settings.py M	
		ß							
Automate The Common Boring Stuffs			<ul> <li>autocommontasks_main</li> <li>_pycache_</li> </ul>			{%extends base			
		Ω	<ul> <li>pycacrie</li> <li>initcpython-39.pyc</li> </ul>			{% block conte	nt %}		
Email address		1							
		<u>ې</u>				{% load crispy	_forms_tags%}		
		a>	F urls.cpython-39.pyc						

## 14. Further updating our REGISTER.HTML.

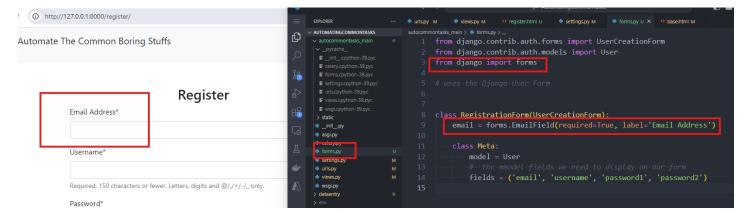
∢			← -	→	, Р <sub>Аuto</sub>	matingCommonTasks	5		
=	EXPLORER		🔹 uris.pv 🛽	M 🌵 views.ov M	🔹 register.html u	🍨 settings.py M	🍨 forms.py U	🗘 base.html M	
<b>ل</b> ح	<ul> <li>AUTOMATINGCOMMONTASKS</li> <li>autocommontasks_main</li> <li>_pycache</li> <li>_initcpython-39.pyc</li> <li>celery.cpython-39.pyc</li> </ul>		1 2 3	{% block cor	<pre>base.html' %} itent %}</pre>				
20 20 8 ■	<ul> <li>forms.cpython-39.pyc</li> <li>settings.cpython-39.pyc</li> <li>urls.cpython-39.pyc</li> <li>views.cpython-39.pyc</li> <li>wsgi.cpython-39.pyc</li> <li>static</li> </ul>			<pre><div class="&lt;h2 clas &lt;form ac&lt;/pre&gt;&lt;/th&gt;&lt;th&gt;&lt;pre&gt;spy_forms_tags%} 'container_mt-5" s="text-center"> tion=""&gt; form   crispy }}</div></pre>			;">		
⊑⊚ ⊿ ●	<ul> <li>initpy</li> <li>asgi.py</li> <li>celery.py</li> <li>forms.py</li> <li>settings.py</li> <li>urls.py</li> </ul>	U M M			out type="submit"	value="Regi	ster"∙class	="btn-btn-pr	imary">
	<ul> <li>views.py</li> <li>wsgi.py</li> <li>dataentry</li> <li>env</li> </ul>	м •	14 15	{%∙endblock∘	%}				

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e -				5	

Register
Email address
Username*
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.
Password*
<ul> <li>Your password can't be too similar to your other personal information.</li> <li>Your password must contain at least 8 characters.</li> <li>Your password can't be a commonly used password.</li> </ul>
Your password can't be entirely numeric.
Password confirmation*
Enter the same password as before, for verification.
Register

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15. In the default User Form, the email is an optional field. We can make this as a required field by updating our FORMS.PY



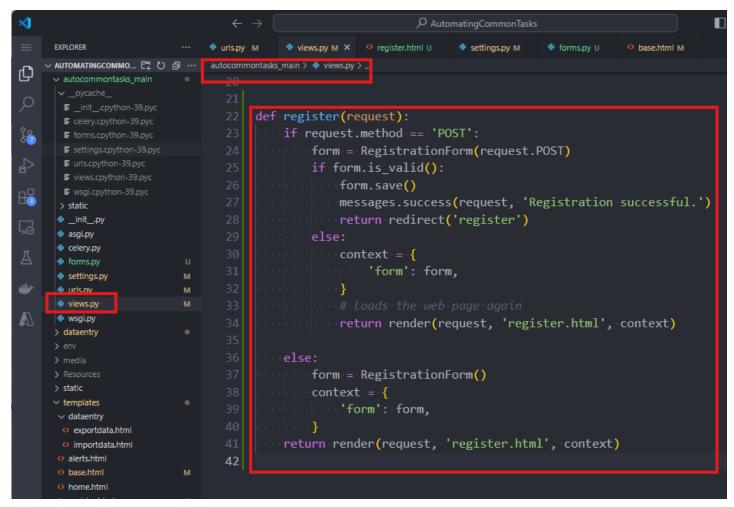
#### 16. Our VIEWS.PY as:

utocommontasks\_main > 🔹 views.py > 🕅 register

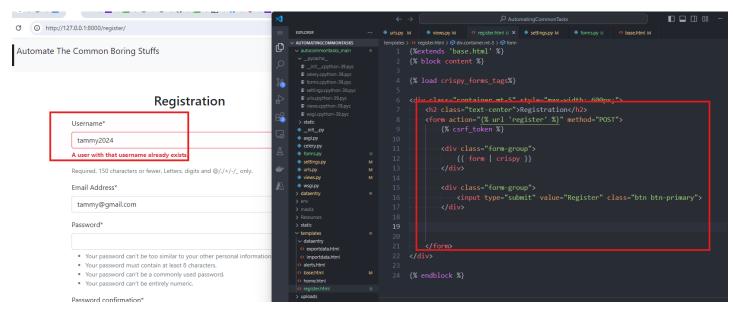
- 1 from django.shortcuts import render, redirect
- 2 from django.http import HttpResponse
- 3 # imports the function from the TASKS.PY of DATA
- 4 from dataentry.tasks import celery\_test\_task
- 5 from .forms import RegistrationForm
- 6 from django.contrib import messages

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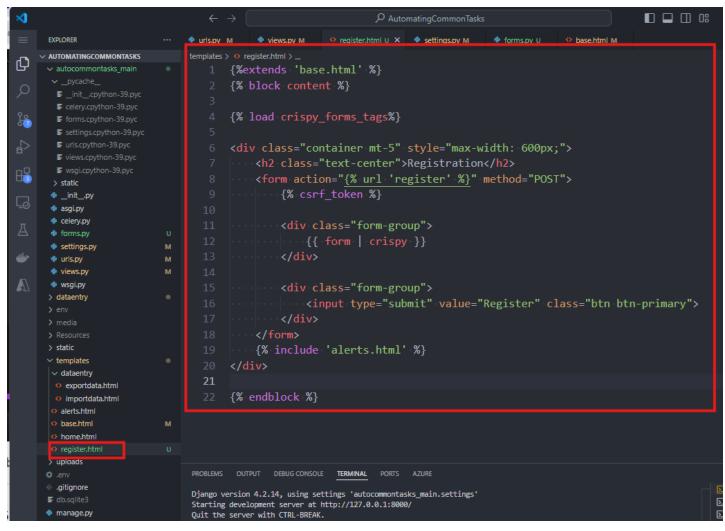
Login Regist



17. Testing the registration form with an existing user:



17. To include our message alert for successful registration.



18. I updated the form to include the firstname and the lastname in the registration.

O http://127.0.0.1:8000/register/	EXPLORER	••• I urlspy M I views.py M I register.html U I settings.py M I forms.py U X I base.html M
utomate The Common Boring Stuffs	AUTOMATINGCOMMONTASKS     vautocommontasks_main    pycache	autocommontasks_main > ( formspy >) 1 from django.contrib.auth.forms import UserCreationForm 2 from django.contrib.auth.models import User
Registration	E celery.cpython-39.pyc forms.cpython-39.pyc E settings.cpython-39.pyc E urits.cpython-39.pyc E urits.cpython-39.pyc E views.cpython-39.pyc	3 from django import forms 4 5 #-uses-the-Django-User-Form 6 7
First Name*	F vsgi.cpy/thon-39,pyc     > static         → _initpy         → asgi.py         → celey.py	<pre>class RegistrationForm(UserCreationForm):</pre>
Last Name*		M 12 M 13 ····class Meta: M 14 ····· model = User
Username*	> dataentry > env > media	<pre>15</pre>
Required. 150 characters or fewer. Letters, digits and @///+/-/_ only.	Resources     static     templates     dataentry     export/data.html     import/data.html	-

19.

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