Topic: Registration Module: Part 14

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

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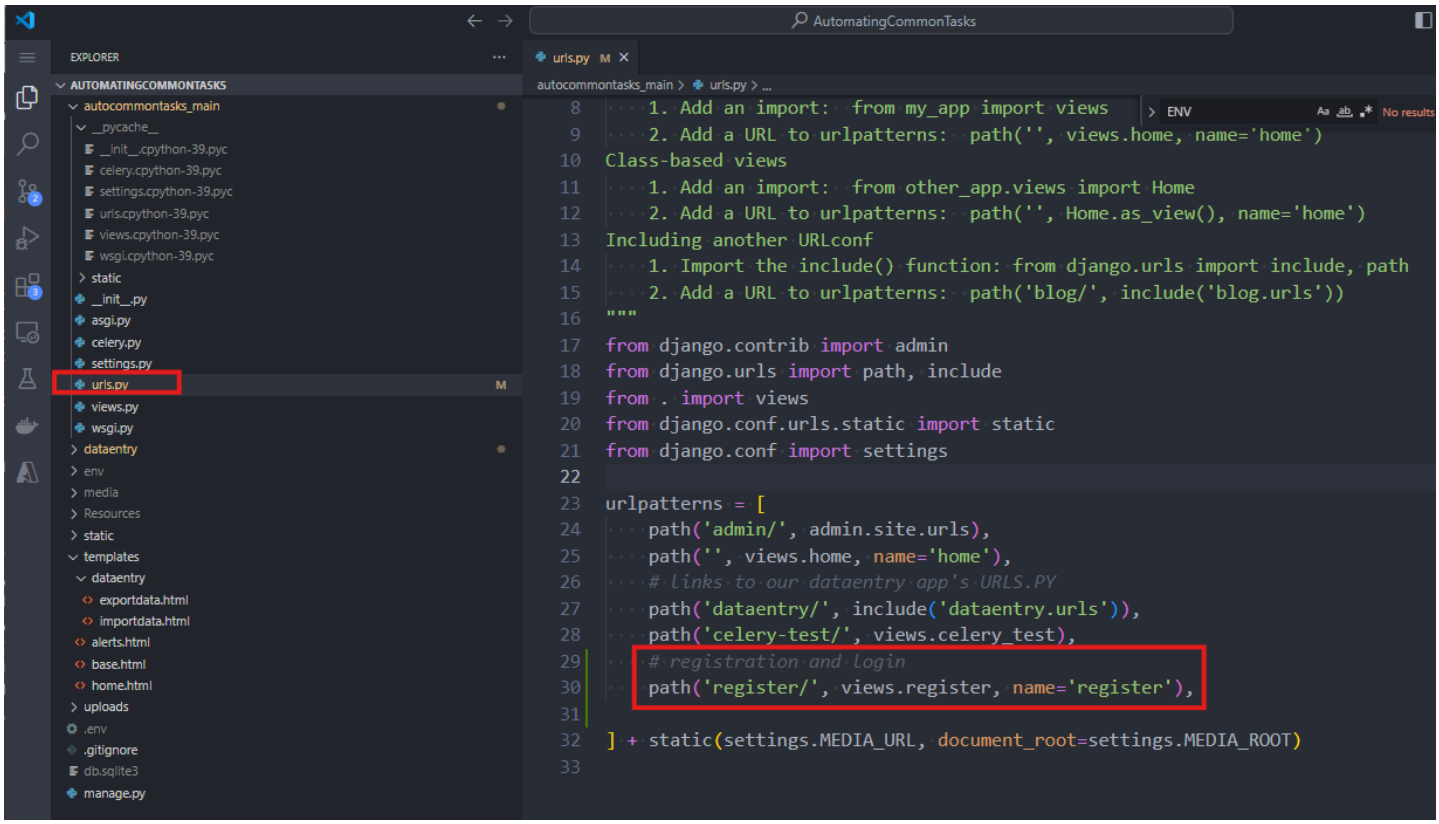
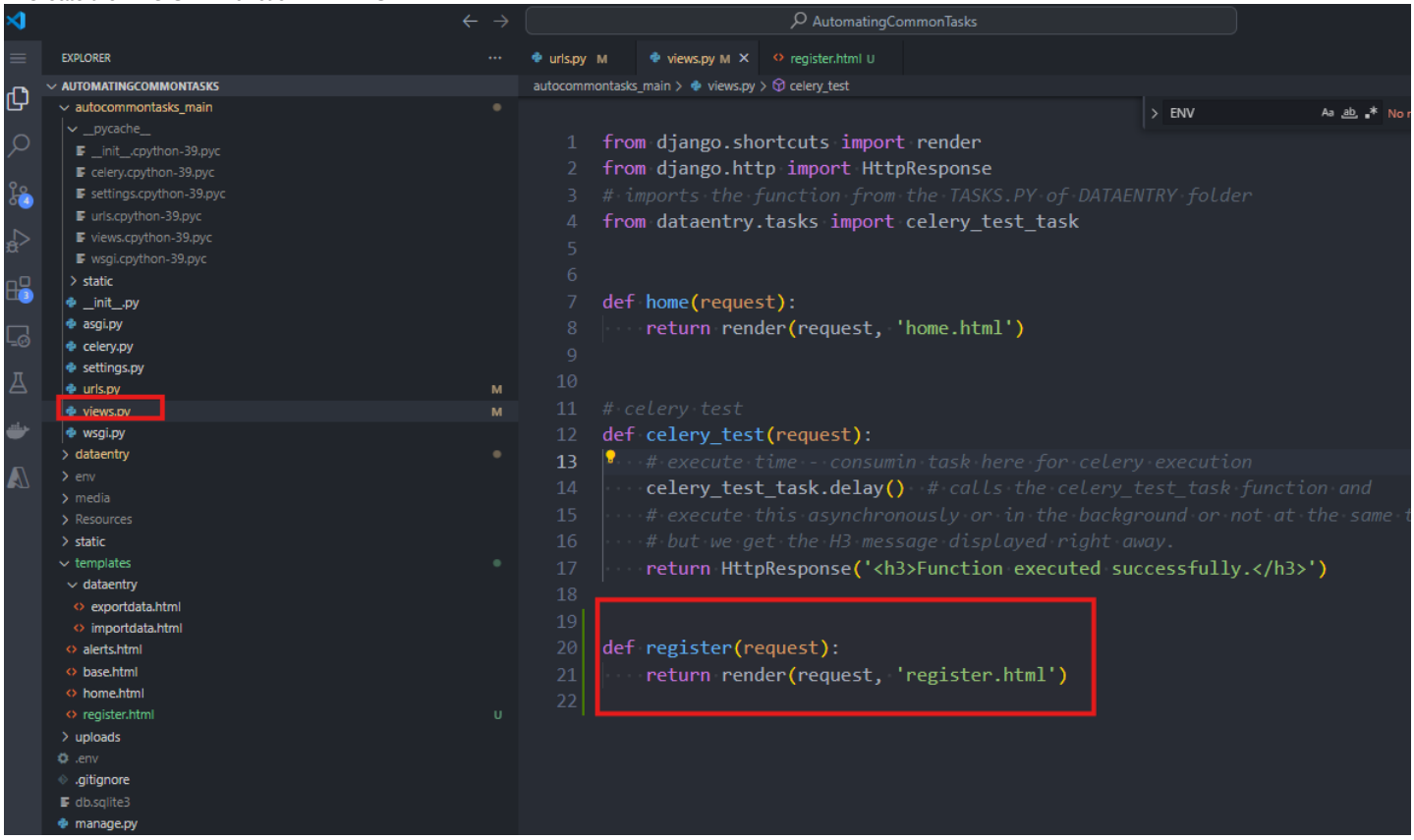
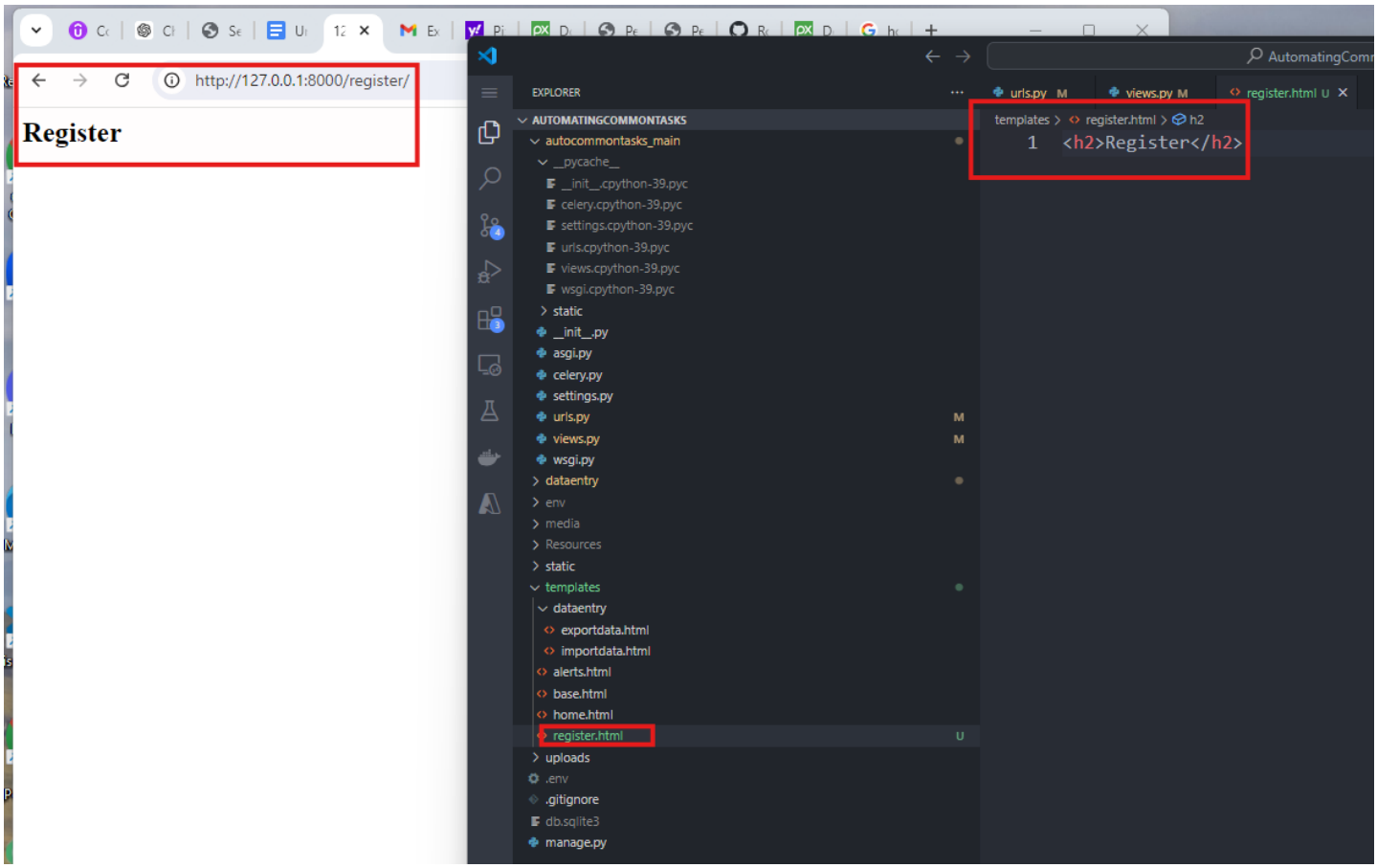
1. We need a URL pattern like http://127.0.0.1:8000/register/, so in the main project's URLS.PY.



2. Create the REGISTER function in VIEWS.PY:



3. Create the REGISTER.HTML in TEMPLATES.

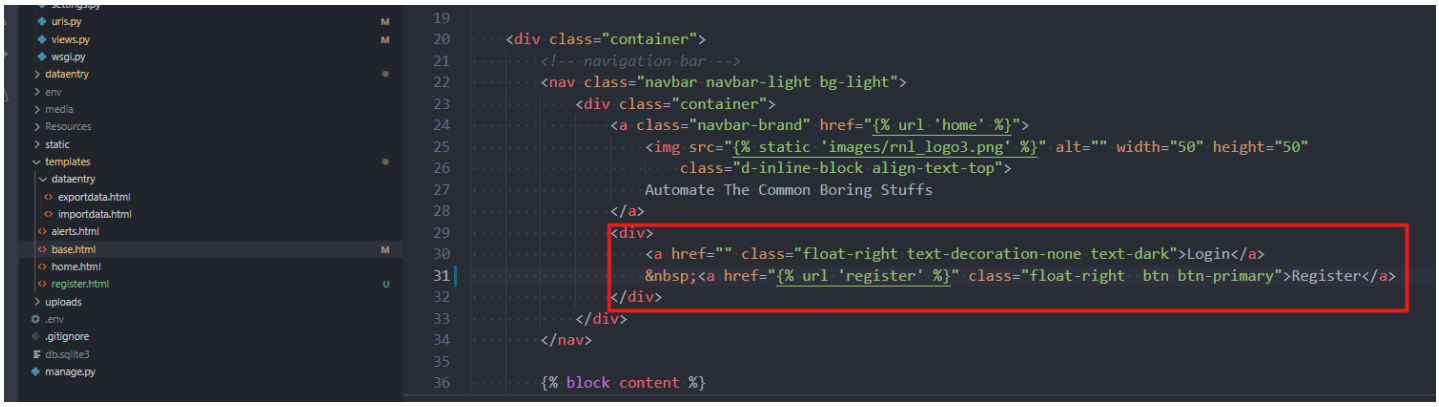


4. We update our REGISTER.HTML to include our Django tags.

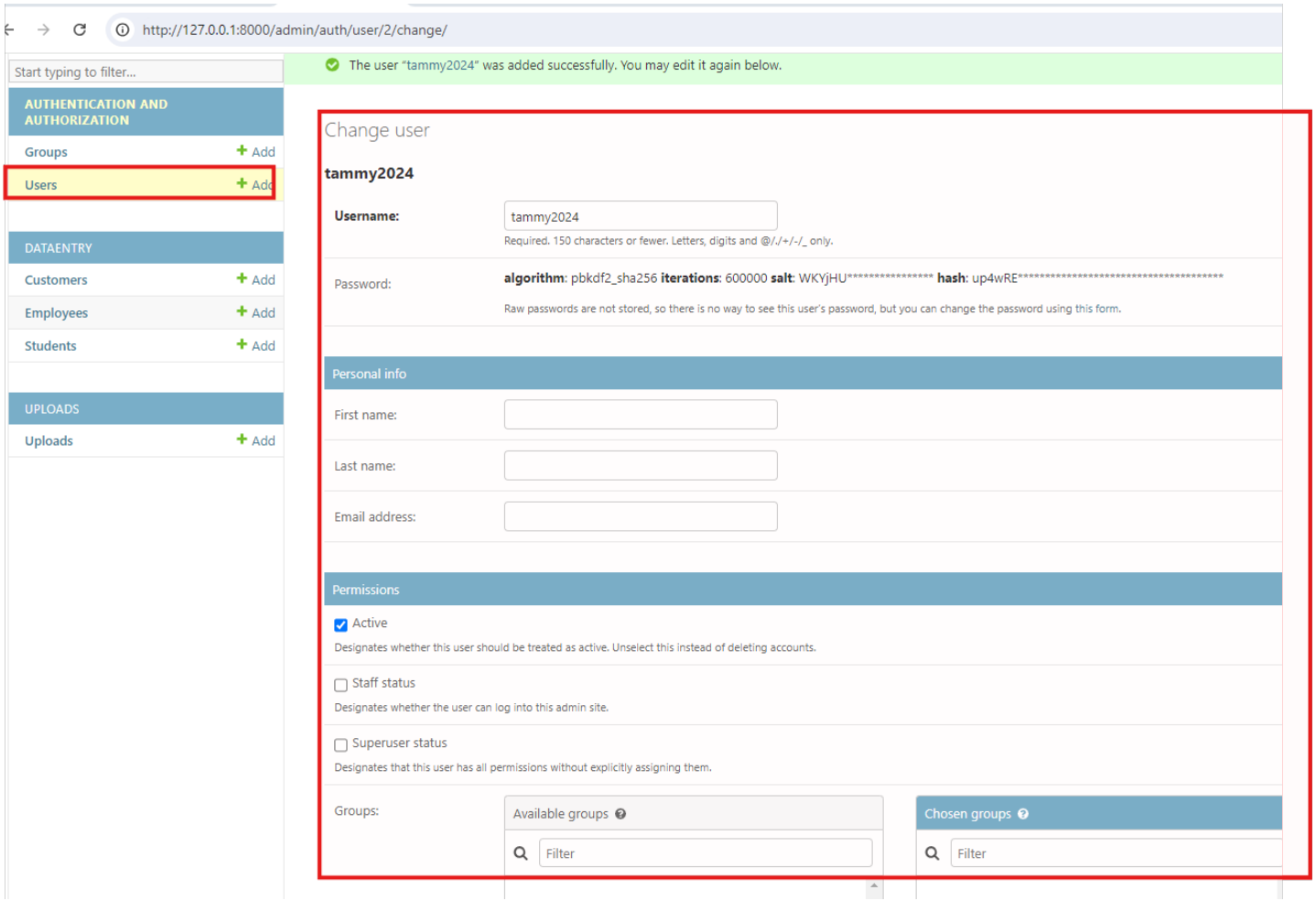
```
{%extends 'base.html' %}

{% block content %}

<we add our unique code here>
```

```
{% endblock %}
```

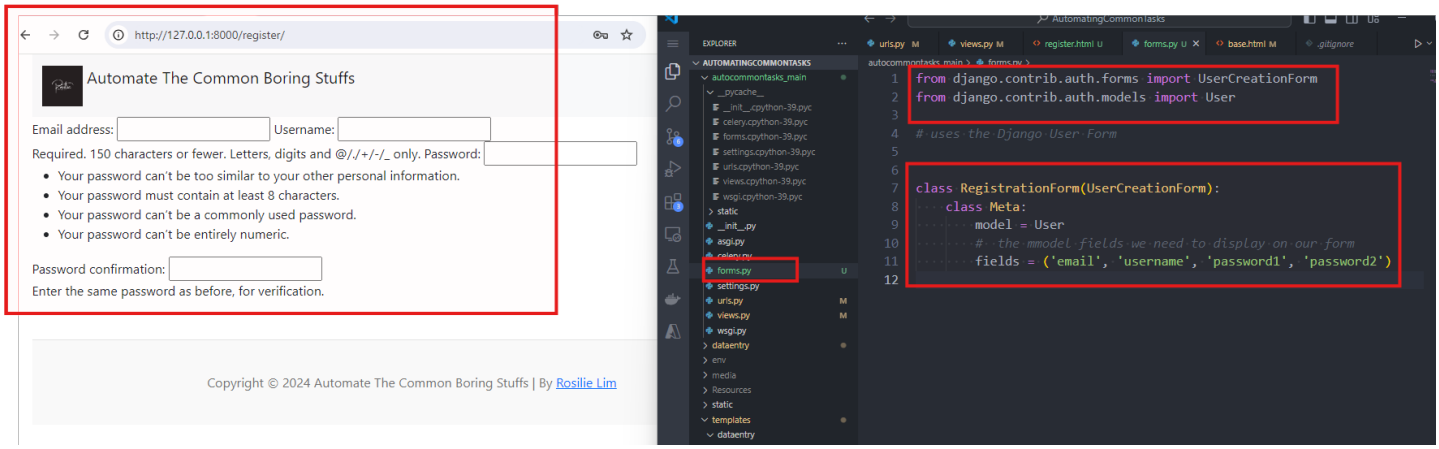
5. We update our BASE.HTML to link our webpages to REGISTER.HTML



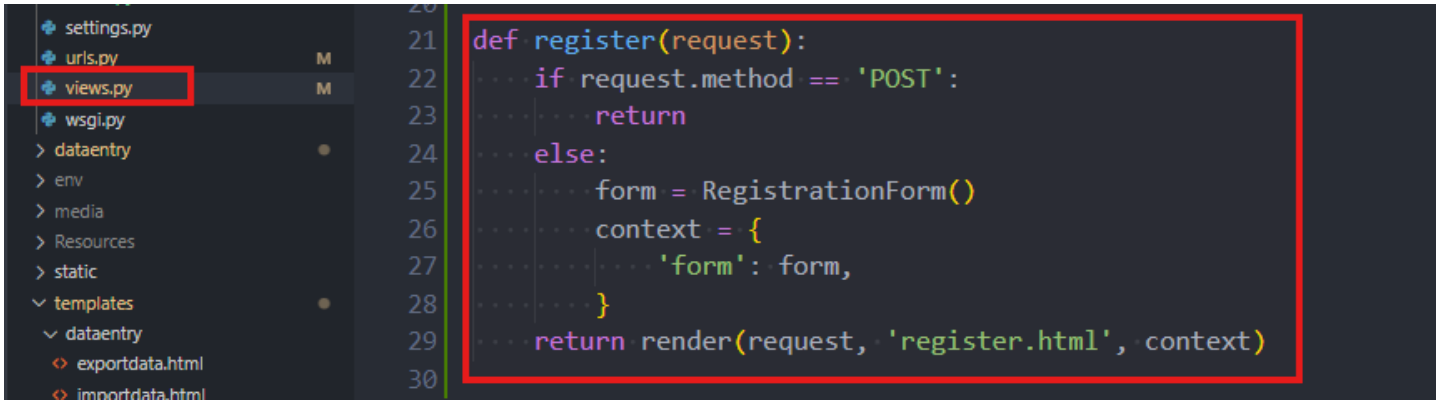
6. To create the registration form, we can manually create the UI form or automate this using DJANGO MODEL FORM (similar to our Admin Panel User Registration) WITH CRISPY TO FORMAT IT.



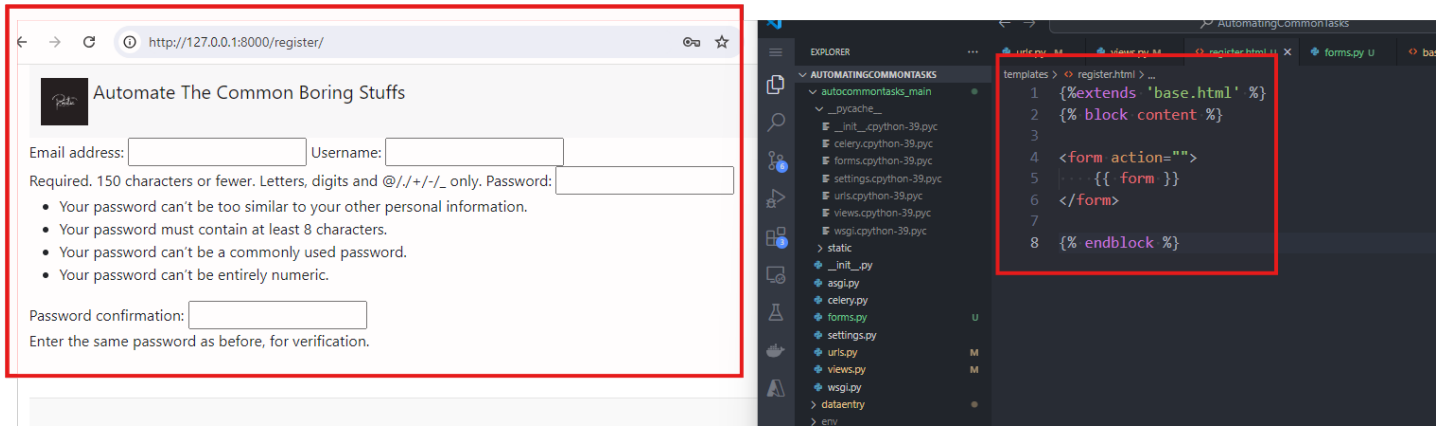
7. Create a new file, FORMS.PY, in your main project directory.



8. In our VIEWS.PY, we write:

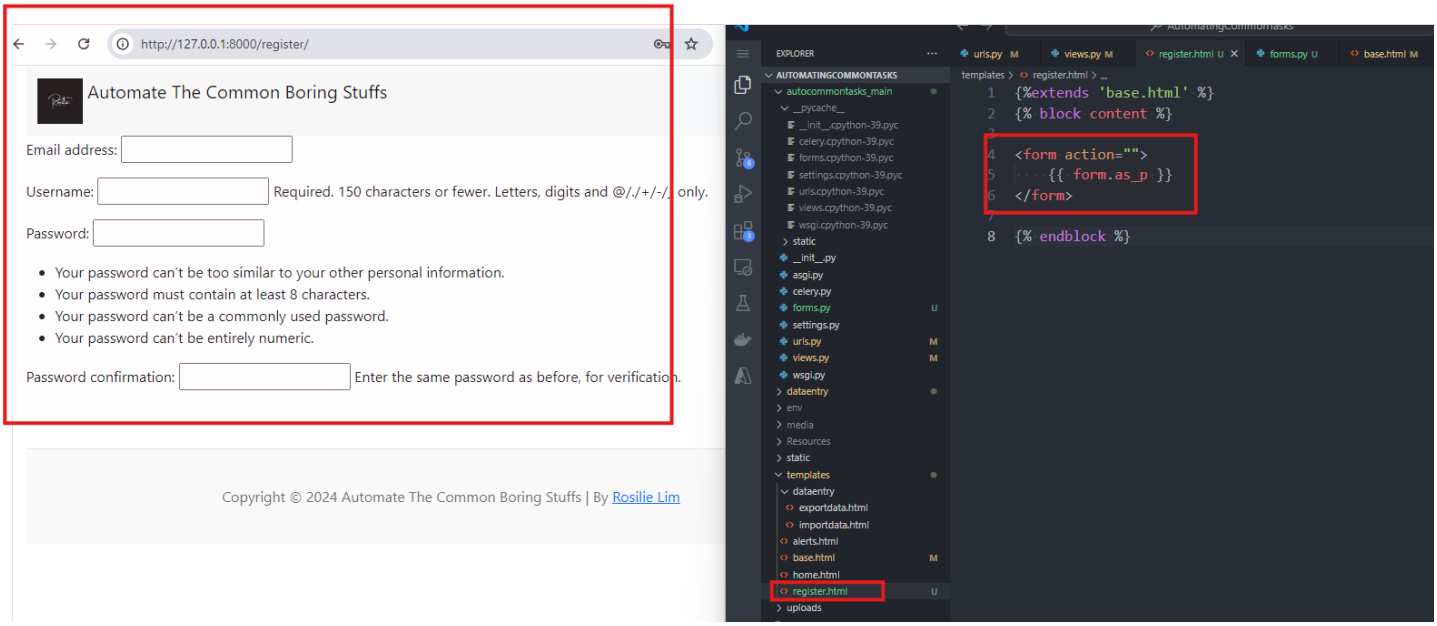


9. In our REGISTER.HTML, we write



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 %}
```



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

Installing django-crispy-forms

Install latest stable version into your python environment using pip:

```
pip install django-crispy-forms
```

If you want to install development version (unstable), you can do so doing:

```
pip install git+git://github.com/django-crispy-forms/django-crispy-forms.git@main#egg
```

Or, if you'd like to install the development version as a git repository (so you can `git pull` updates), use the `-e` flag with `pip install`, like so:

```
pip install -e git+git://github.com/django-crispy-forms/django-crispy-forms.git@main#
```

Once installed add `crispy_forms` to your `INSTALLED_APPS` in settings.py:

```
INSTALLED_APPS = (
    ...
    'crispy_forms',
)
```

In production environments, always activate Django template cache loader. This is available since Django 1.2 and what it does is basically load templates once, then cache the result for every subsequent render. This leads to a significant performance improvement. To see how to set it up refer to the fabulous Django docs page.

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

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'dataentry',
    'uploads',
    'crispy_forms',
]
```

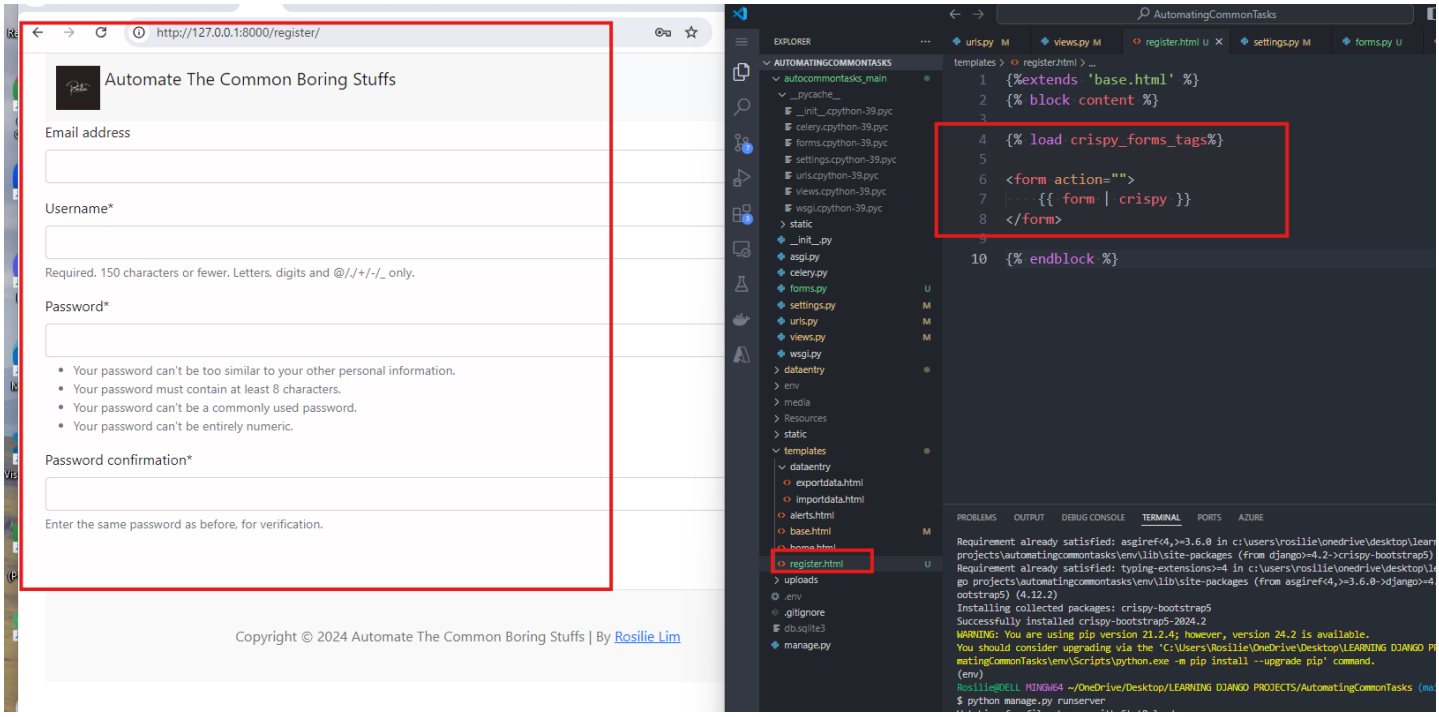
12. If you check your BASE.HTML the bootstrap we are using is version 5, that is why our CRISPY_TEMPALTE_PACK='bootstrap5' and so we need to install this as well.

```
$ pip install  crispy-bootstrap5
```

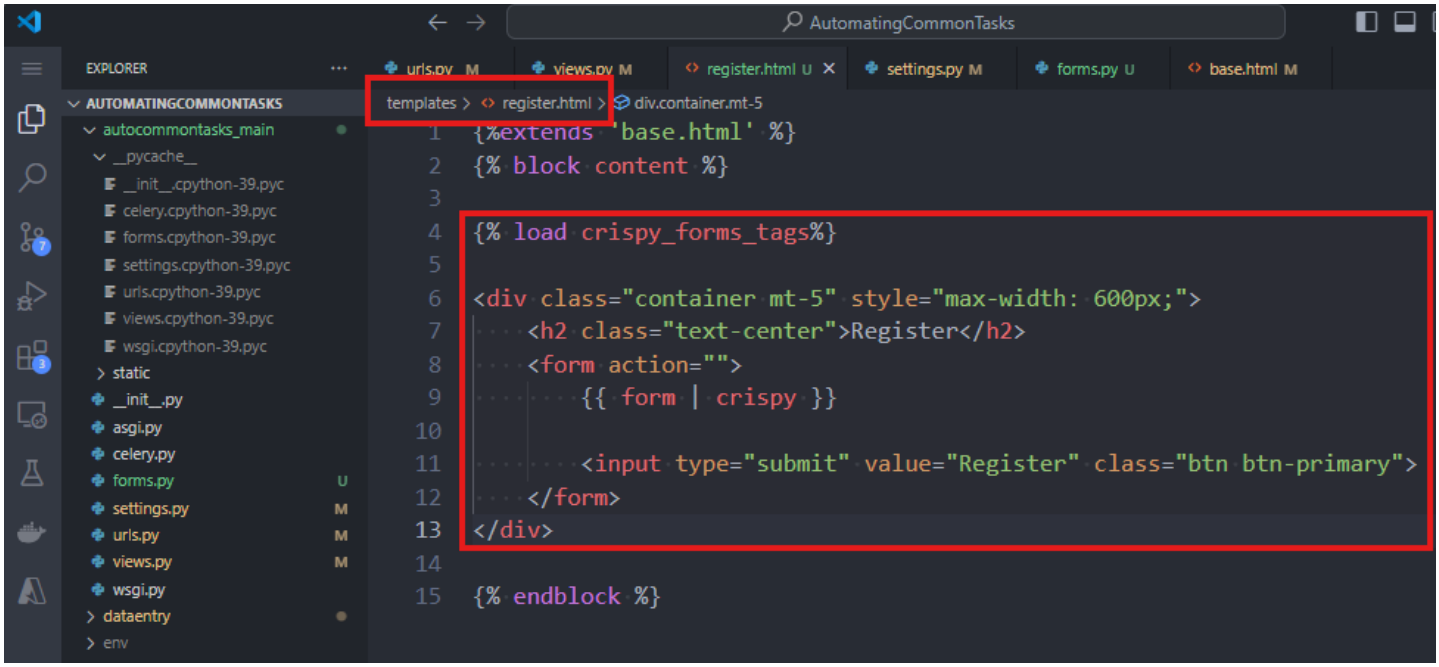
Register this in your INSTALLED_APPS:

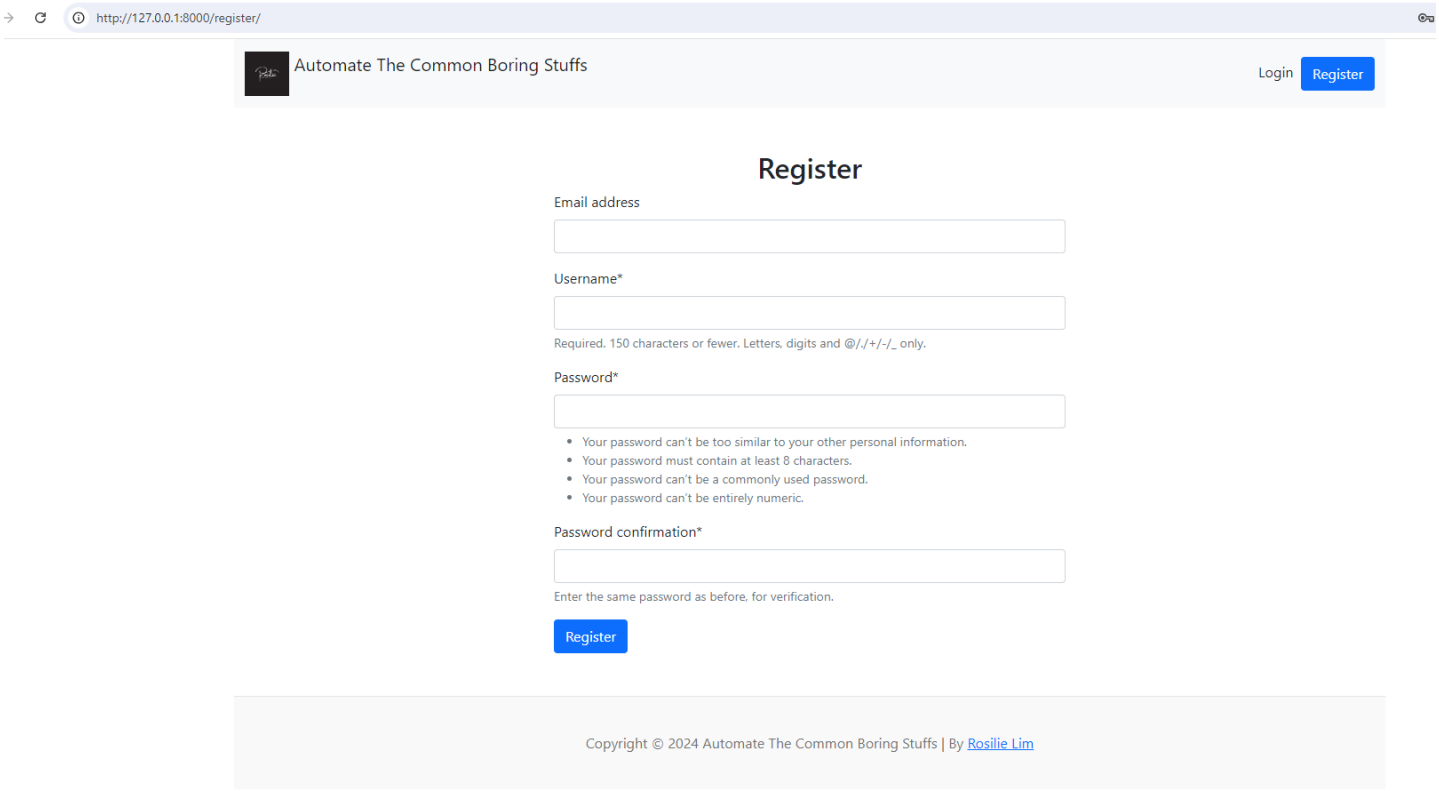
```
# Application definition

INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'dataentry',
    'uploads',
    'crispy_forms',
    'crispy_bootstrap5',
]
```

13. Update our REGISTER.HTML and reload:

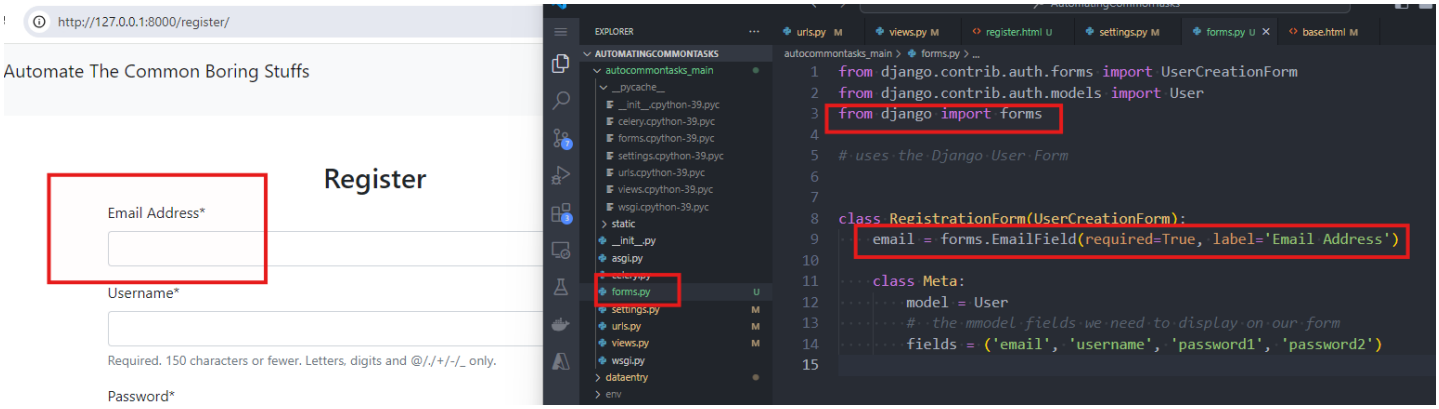


14. Further updating our REGISTER.HTML.

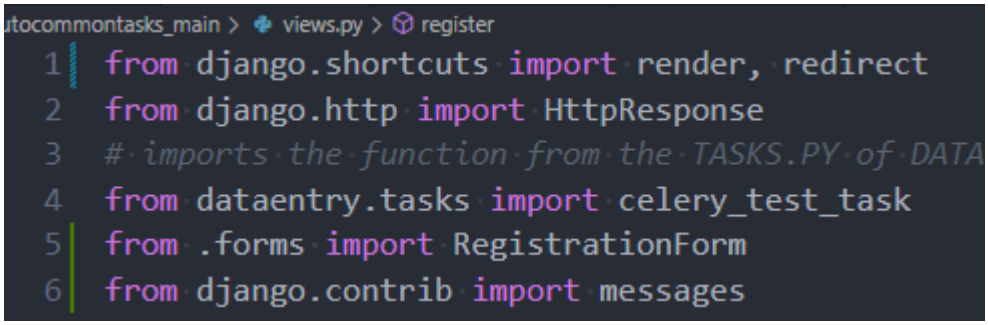


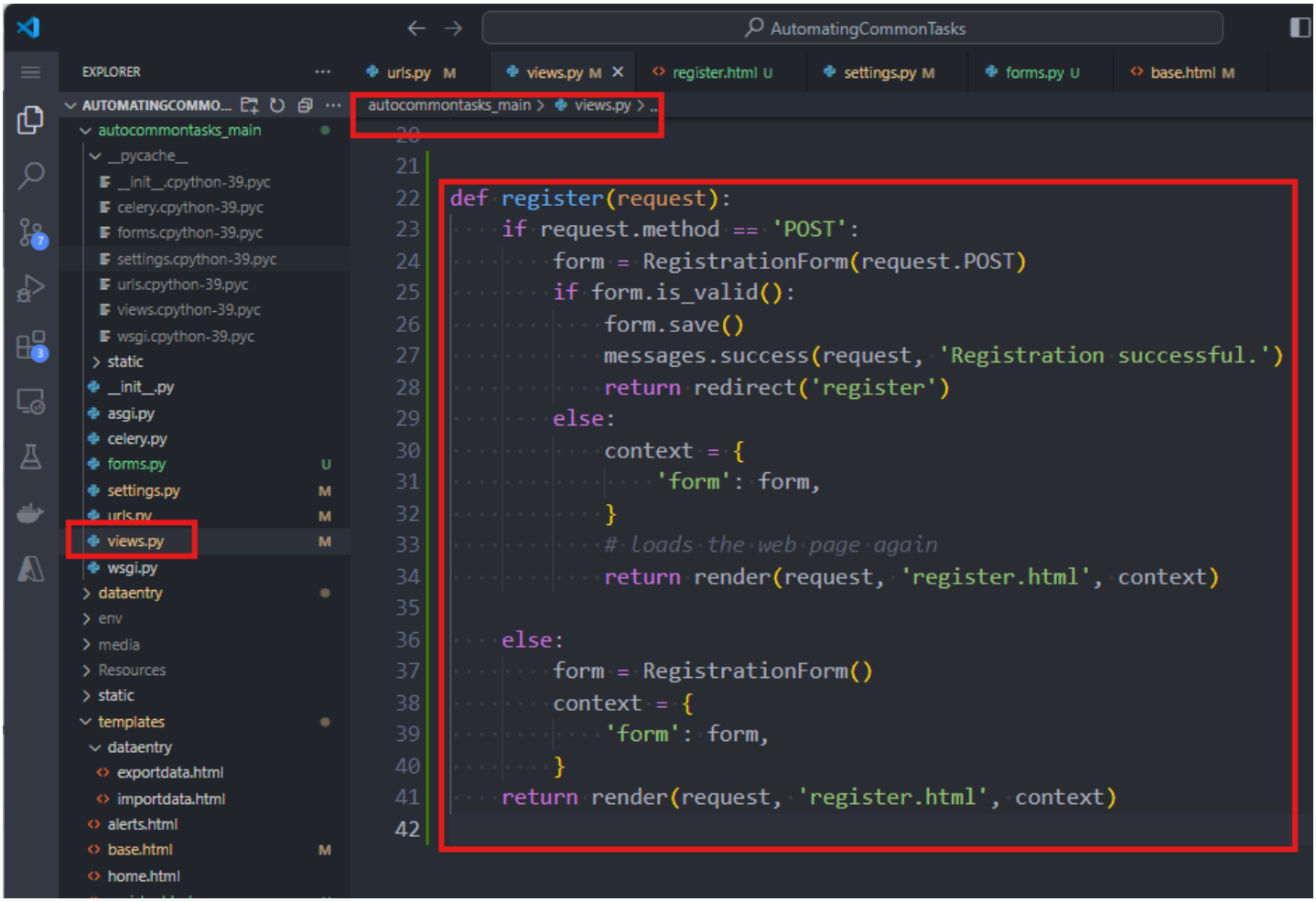


15. In the default User Form, the email is an optional field. We can make this as a required field by updating our FORMS.PY

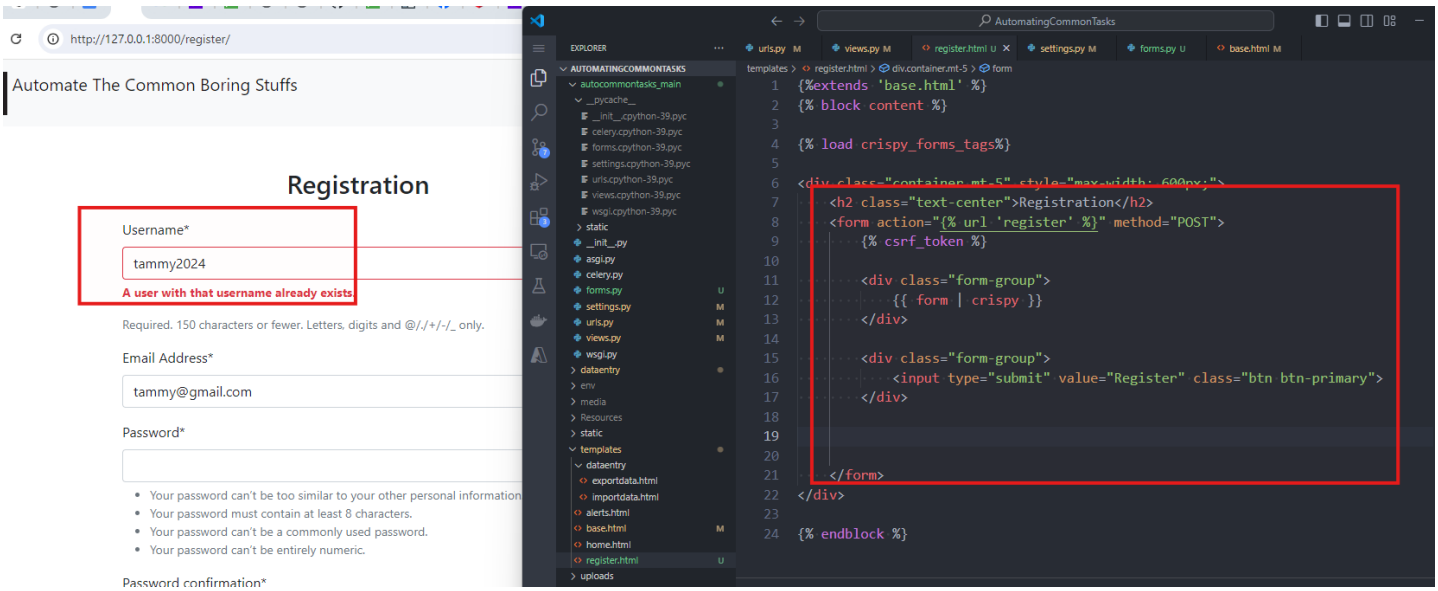


16. Our VIEWS.PY as:

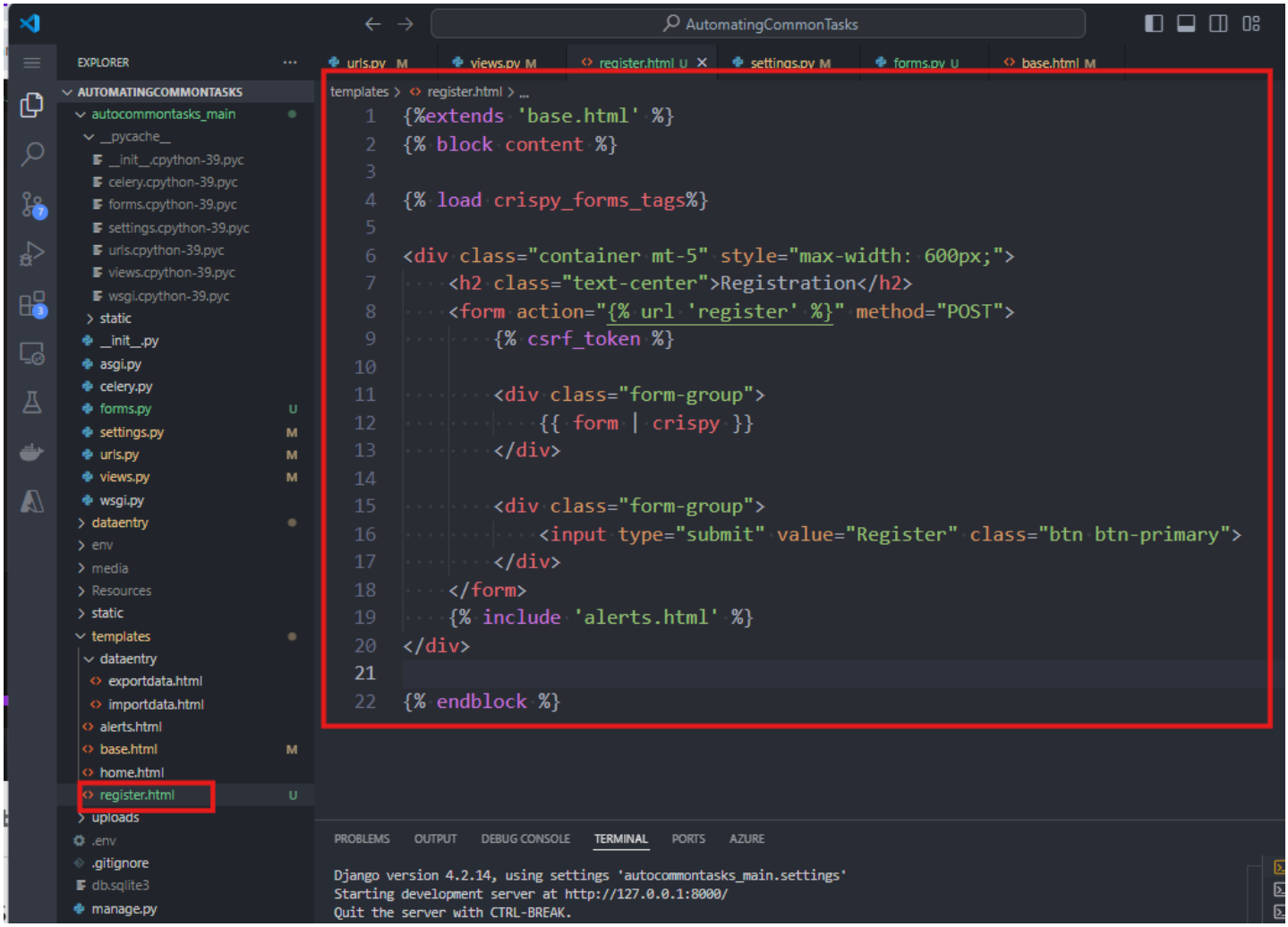




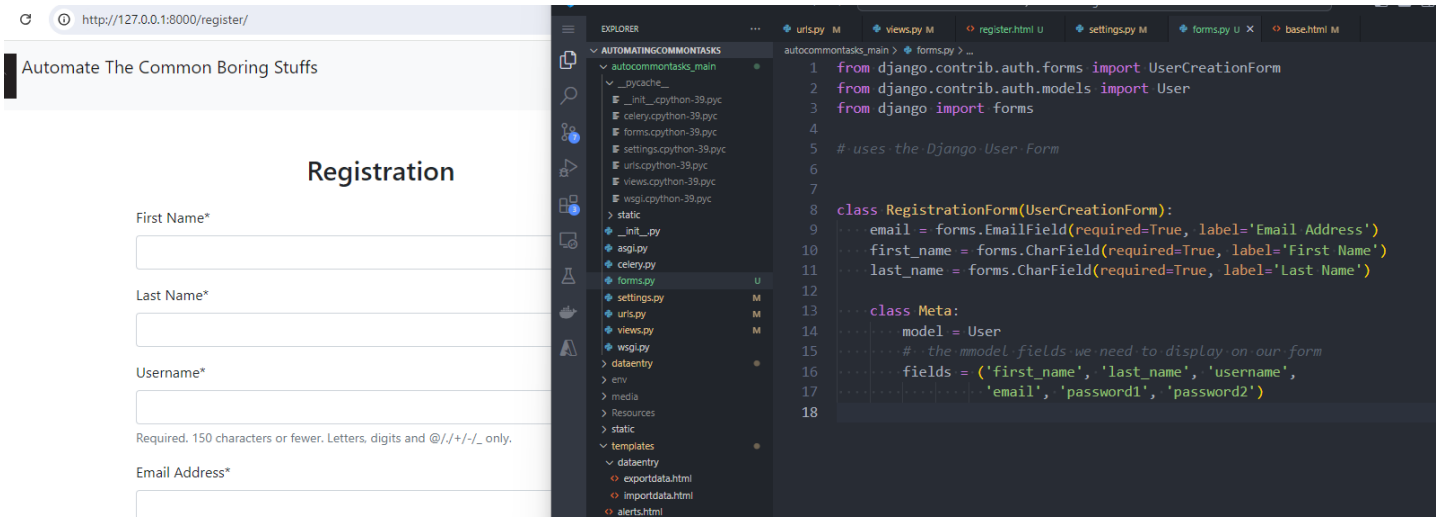
17. Testing the registration form with an existing user:



17. To include our message alert for successful registration.



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



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