

MODULE-3: DJANGO ADMIN INTERFACES AND MODEL FORMS

DJANGO ADMIN INTERFACE

Django's admin interface is a powerful feature that comes built-in with the Django web framework. It provides a ready-to-use, customizable, web-based interface for managing the data in your Django application. The admin interface is automatically generated based on your Django models, making it easy to perform common CRUD (Create, Read, Update, Delete) operations on your application's data without having to write custom views or forms.

Key aspects of Django's admin interface:

Automatic CRUD Operations:

- Once you define your models in Django, the admin interface automatically generates an interface for managing those models.
- You can create, read, update, and delete instances of your models directly from the admin interface without writing any additional code.

Customization:

- While the admin interface is automatically generated, Django provides extensive customization options.
- You can customize the appearance and behavior of the admin interface using Python classes and options.
- Customizations include defining custom admin views, adding filters, creating custom actions, and more.

Integration with Django's Authentication System:

- Django's admin interface integrates seamlessly with Django's built-in authentication system.
- This means you can control access to different parts of the admin interface based on user permissions and groups.

- You can define which users have access to the admin interface and what actions they can perform.

Internationalization:

- Django's admin interface supports internationalization out of the box.
- You can easily translate the admin interface into multiple languages, making it accessible to users from different regions.

Development and Debugging:

- During development, the admin interface is a valuable tool for quickly inspecting and managing your application's data.
- It's particularly useful for debugging and verifying that your models and data are set up correctly.

Overall, Django's admin interface is a time-saving tool that simplifies the process of managing data in your Django application. It's highly customizable, integrates seamlessly with Django's authentication system, and provides a convenient way to interact with your application's data during development and beyond.

MODEL FORM:

Model forms in Django are a powerful tool for handling HTML forms in web applications. They simplify the process of creating forms for data input and validation, particularly when working with Django models.

An explanation of model forms in Django:

Automatic Form Generation:

- Django's model forms automatically generate HTML form elements based on the fields of a Django model.
- When you define a model form class, Django inspects the model's fields and generates form fields accordingly.
- This saves you from manually defining each form field, as Django does it for you based on the model's structure.

Validation:

- Model forms provide built-in validation based on the model's field definitions.
- When a form is submitted, Django validates the input data according to the model's field types, constraints, and custom validation logic.
- If the data is invalid, Django returns errors that can be displayed to the user to correct their input.

Data Binding:

- After a form is submitted and passes validation, Django automatically binds the submitted data to the corresponding model instance.
- This means you can easily create, update, or delete database records based on the form's data without writing additional code to map form fields to model fields.

Customization:

- While model forms automatically generate form fields based on the model's fields, you can still customize the form's appearance and behavior.
- You can override default field widgets, add additional fields not present in the model, or exclude certain fields from the form.
- Customization allows you to tailor the form to suit your application's specific requirements.

Integration with Views:

- Model forms are typically used in Django views to handle form processing.
- In a view function or class-based view, you instantiate a model form, pass it to the template context, and render it in the HTML template.
- When the form is submitted, the view receives the form data, validates it, and performs the necessary actions based on the form's validity.

The overall model forms in Django streamline the process of working with HTML forms by automatically generating form elements based on Django models. They handle validation, data binding, and provide customization options, making them a convenient and efficient tool for building web forms in Django applications.

3.0 ACTIVATING ADMIN INTERFACES

Activating the admin interface in Django involves a few simple steps:

Ensure Django Admin is Installed:

First, make sure you have Django installed. You can install it via pip if you haven't already:

pip install django

Add 'django.contrib.admin' to INSTALLED_APPS:

In your Django project's settings file (typically settings.py), ensure that 'django.contrib.admin' is included in the INSTALLED_APPS setting. This is necessary to enable the admin interface.

```
INSTALLED_APPS = [
```

```
...
```

```
'django.contrib.admin',
```



```
...  
]
```

Run Migrations:

If you haven't already, you need to run the makemigrations and migrate commands to create and apply the necessary database migrations for the admin interface.

```
python manage.py makemigrations
```

```
python manage.py migrate
```

Create a Superuser:

To access the admin interface, you need to create a user account with superuser privileges. Run the following command and follow the prompts to create a superuser account:

```
python manage.py createsuperuser
```

Accessing the Admin Interface:

Once you've created the superuser account, you can start the Django development server:

```
python manage.py runserver
```

Then, you can access the admin interface by navigating to <http://127.0.0.1:8000/admin> in your web browser and logging in with the superuser credentials you just created.

Optional: Customize the Admin Interface:

While the default admin interface is functional, you may want to customize it to better suit your application's needs. You can customize the admin interface by creating admin site classes, customizing model admin classes, or overriding admin templates.

By following these steps, you should be able to activate and access the admin interface in your Django project.

3.1 USING ADMIN INTERFACES

The Django admin interface serves several key purposes in web development:

- **Rapid Prototyping and Development:** During the early stages of development, the admin interface allows developers to quickly prototype and develop features without building custom user interfaces. It provides a ready-made interface for managing data models, which speeds up development time.
- **Data Management:** The admin interface is a powerful tool for managing data in Django applications. It allows administrators to perform CRUD (Create, Read, Update, Delete) operations on database records without writing custom views or forms. This includes creating, editing, and deleting records, as well as searching and filtering data.

- **Content Management:** For content-heavy websites such as blogs, news sites, or e-commerce platforms, the admin interface simplifies content management tasks. Content editors can use the admin interface to create and update articles, products, or other types of content without needing technical knowledge or access to the codebase.
- **User Management:** Django's admin interface integrates with the authentication system, allowing administrators to manage user accounts, permissions, and groups. This includes creating new user accounts, assigning permissions, resetting passwords, and managing user sessions.
- **Customization and Extensibility:** While the admin interface provides a lot of functionality out of the box, it's also highly customizable and extensible. Developers can customize the appearance and behavior of the admin interface by creating custom admin views, defining custom actions, adding filters, and overriding templates. This allows developers to tailor the admin interface to fit the specific needs of their applications.
- **Internal Tools and Dashboards:** The admin interface is not limited to managing data models defined in the Django application. It can also be used to create internal tools and dashboards for administrative tasks, reporting, or monitoring. Developers can create custom admin views to display analytics, generate reports, or perform other administrative tasks.

Overall, the Django admin interface is a versatile tool that simplifies data management, content management, and user management tasks in Django applications. It provides a user-friendly interface for administrators and content editors, while also offering flexibility and extensibility for developers to customize and extend its functionality.

3.2 CUSTOMIZING ADMIN INTERFACES

Customizing admin interfaces in Django involves altering the appearance, behavior, and functionality of the built-in admin site to better suit the needs of your project.

Let's walk through an example step by step:

Step 1: Create a Django Project and App

First, create a new Django project and app:

```
django-admin startproject myproject
```

```
cd myproject
```

```
python manage.py startapp myapp
```

Step 2: Define a Model

Define a model in your app's models.py file. For example, let's create a simple Product model:

```
# myapp/models.py
```



```
from django.db import models

class Product(models.Model):

    name = models.CharField(max_length=100)
    price = models.DecimalField(max_digits=10, decimal_places=2)
    description = models.TextField()

    def __str__(self):

        return self.name
```

Step 3: Register the Model with the Admin Interface

Register the Product model with the admin interface by modifying the admin.py file:

```
# myapp/admin.py

from django.contrib import admin

from .models import Product

admin.site.register(Product)
```

Step 4: Customize the Model Admin Class

Customize the appearance of the Product model in the admin interface by creating a custom ModelAdmin class:

```
# myapp/admin.py

from django.contrib import admin

from .models import Product

class ProductAdmin(admin.ModelAdmin):

    list_display = ('name', 'price') # Display these fields in the list view
    admin.site.register(Product, ProductAdmin)
```

Step 5: Run Migrations and Create a Superuser

Apply migrations to create database tables for the models, and create a superuser to access the admin interface:

```
python manage.py makemigrations

python manage.py migrate
```



```
python manage.py createsuperuser
```

Step 6: Customize Templates (Optional)

Optionally, customize admin templates to change the appearance and layout of the admin interface. You can override templates by creating files with the same name in your project's `templates/admin` directory.

Step 7: Customizing Admin Site-wide Settings (Optional)

You can customize the overall appearance and behavior of the admin interface by subclassing `AdminSite` and modifying attributes such as `site_header`, `site_title`, and `index_title`.

Step 8: Start the Development Server

Start the Django development server:

```
python manage.py runserver
```

Step 9: Access the Admin Interface

Open a web browser and navigate to `http://127.0.0.1:8000/admin`. Log in with the superuser credentials you created earlier.

Step 10: Interact with the Admin Interface

You can now interact with the admin interface to manage your Product objects. You can add, view, update, and delete products directly through the admin interface.

You've customized the admin interface in Django by altering the appearance and behavior of the built-in admin site to suit your project's requirements

3.2.1 FORM PROCESSING

Form processing in Django involves handling form submissions from users, validating the data, and performing actions based on the submitted data. Let's go through the steps involved in form processing with Django:

Step 1: Create a Form

Define a form class in your Django app's `forms.py` file. This form class should inherit from `django.forms.Form` or one of its subclasses like `django.forms.ModelForm`. Here's an example of a simple form:

```
# myapp/forms.py
```

```
from django import forms
```

```
class MyForm(forms.Form):
```

```
    name = forms.CharField(max_length=100)
```



```
email = forms.EmailField()
```

Step 2: Create a View

Define a view function or class-based view to handle form processing logic. In the view, you'll handle form submission, validate the data, and perform actions based on the submitted data. Here's an example of a view function:

```
# myapp/views.py

from django.shortcuts import render

from .forms import MyForm

def my_form_view(request):
    if request.method == 'POST':
        form = MyForm(request.POST)

        if form.is_valid():
            name = form.cleaned_data['name']
            email = form.cleaned_data['email']

            # Process the form data (e.g., save to database)
            # Redirect to a success page or render a template
        else:
            form = MyForm()

    return render(request, 'my_template.html', {'form': form})
```

Step 3: Create a Template

Create an HTML template to render the form. Include the form fields in the template using Django template language. Here's an example of a template (my_template.html):

```
<!-- myapp/templates/my_template.html -->

<form method="post">

    {% csrf_token %}

    {{ form.as_p }}
```



```
<button type="submit">Submit</button>

</form>
```

Step 4: Configure URLs

Map the view to a URL pattern in your Django project's `urls.py` file:

```
# myproject/urls.py

from django.urls import path

from myapp import views

urlpatterns = [

    path('my-form/', views.my_form_view, name='my-form'),

]
```

Step 5: Handling Form Submission

When a user submits the form, Django processes the form data in the view. If the form is submitted via POST method, Django initializes the form with the submitted data (`request.POST`), validates it, and makes the cleaned data available as `form.cleaned_data`. You can then perform actions based on this data, such as saving it to a database.

Step 6: Displaying Validation Errors

If the form data is invalid, Django automatically renders the form with validation errors. You can access these errors in the template using `form.errors` or display them alongside form fields using `form.field.errors`.

Step 7: Adding CSRF Token

Always include a CSRF token in your forms to protect against CSRF attacks. Use the `{% csrf_token %}` template tag to include the CSRF token in your form.

Step 8: Redirecting or Rendering Response

After processing the form data, you can redirect the user to a success page or render a template. Alternatively, you can render the same template with the form to allow users to correct any validation errors.

You've now implemented form processing in Django, allowing users to submit data through a form, validating it, and performing actions based on the submitted data

3.2.2 CREATING FEEDBACK FORMS

Creating a feedback form in Django involves defining a form to collect feedback from users, creating a view to handle form submissions, and rendering a template to display the form to users. Let's walk through the steps:

Step 1: Define a Form

First, define a form class in your Django app's `forms.py` file. This form will include fields to collect feedback from users. For example:

```
# myapp/forms.py

from django import forms

class FeedbackForm(forms.Form):

    name = forms.CharField(max_length=100)

    email = forms.EmailField()

    message = forms.CharField(widget=forms.Textarea)
```

Step 2: Create a View

Next, create a view function or class-based view to handle form processing logic. In this view, you'll handle form submission, validate the data, and perform actions based on the submitted data. For example:

```
# myapp/views.py

from django.shortcuts import render
from .forms import FeedbackForm

def feedback_view(request):
    if request.method == 'POST':
        form = FeedbackForm(request.POST)

        if form.is_valid():
            # Process the form data (e.g., save to database)

            name = form.cleaned_data['name']

            email = form.cleaned_data['email']

            message = form.cleaned_data['message']

            # Redirect to a success page or render a template
```



```
else:
```

```
    form = FeedbackForm()
```

```
    return render(request, 'feedback_form.html', {'form': form})
```

Step 3: Create a Template

Create an HTML template to render the feedback form. Include the form fields in the template using Django template language. For example:

```
<!-- myapp/templates/feedback_form.html -->
```

```
<form method="post">
```

```
    {% csrf_token %}
```

```
    {{ form.as_p }}
```

```
    <button type="submit">Submit Feedback</button>
```

```
</form>
```

Step 4: Configure URLs

Map the view to a URL pattern in your Django project's `urls.py` file:

```
# myproject/urls.py
```

```
from django.urls import path
```

```
from myapp import views
```

```
urlpatterns = [
```

```
    path('feedback/', views.feedback_view, name='feedback'),
```

```
]
```

Step 5: Handling Form Submission

When a user submits the feedback form, Django processes the form data in the view. If the form is submitted via POST method, Django initializes the form with the submitted data (`request.POST`), validates it, and makes the cleaned data available as `form.cleaned_data`. You can then perform actions based on this data, such as saving it to a database.

Step 6: Displaying Validation Errors

If the form data is invalid, Django automatically renders the form with validation errors. You can access these errors in the template using `form.errors` or display them alongside form fields using `form.field.errors`.

Step 7: Adding CSRF Token

Always include a CSRF token in your forms to protect against CSRF attacks. Use the `{% csrf_token %}` template tag to include the CSRF token in your form.

Step 8: Redirecting or Rendering Response

After processing the form data, you can redirect the user to a success page or render a template. Alternatively, you can render the same template with the form to allow users to correct any validation errors.

You've now created a feedback form in Django, allowing users to submit feedback through a form, validating it, and performing actions based on the submitted data.

3.2.3 FORM SUBMISSIONS

Form submissions in Django involve handling data sent from HTML forms, processing it in views, and performing actions based on the submitted data. Here's a step-by-step guide on how to handle form submissions in Django:

Step 1: Create a Form

Define a form class in your Django app's `forms.py` file. This form class should inherit from `django.forms.Form` or one of its subclasses like `django.forms.ModelForm`. Here's an example of a simple form:

```
# myapp/forms.py

from django import forms

class MyForm(forms.Form):
    name = forms.CharField(max_length=100)
    email = forms.EmailField()
```

Step 2: Create a View

Define a view function or class-based view to handle form submissions. In the view, you'll handle form submission, validate the data, and perform actions based on the submitted data. Here's an example of a view function:

```
# myapp/views.py

from django.shortcuts import render

from .forms import MyForm

def my_form_view(request):
```



```
if request.method == 'POST':

    form = MyForm(request.POST)

    if form.is_valid():

        name = form.cleaned_data['name']

        email = form.cleaned_data['email']

        # Process the form data (e.g., save to database)

        # Redirect to a success page or render a template

    else:

        form = MyForm()

    return render(request, 'my_template.html', {'form': form})
```

Step 3: Create a Template

Create an HTML template to render the form. Include the form fields in the template using Django template language. Here's an example of a template (my_template.html):

```
<!-- myapp/templates/my_template.html -->

<form method="post">

    {% csrf_token %}

    {{ form.as_p }}

    <button type="submit">Submit</button>

</form>
```

Step 4: Configure URLs

Map the view to a URL pattern in your Django project's urls.py file:

```
# myproject/urls.py

from django.urls import path

from myapp import views

urlpatterns = [

    path('my-form/', views.my_form_view, name='my-form'),

]
```


Step 5: Handling Form Submission

When a user submits the form, Django processes the form data in the view. If the form is submitted via POST method, Django initializes the form with the submitted data (`request.POST`), validates it, and makes the cleaned data available as `form.cleaned_data`. You can then perform actions based on this data, such as saving it to a database.

Step 6: Displaying Validation Errors

If the form data is invalid, Django automatically renders the form with validation errors. You can access these errors in the template using `form.errors` or display them alongside form fields using `form.field.errors`.

Step 7: Adding CSRF Token

Always include a CSRF token in your forms to protect against CSRF attacks. Use the `{% csrf_token %}` template tag to include the CSRF token in your form.

Step 8: Redirecting or Rendering Response

After processing the form data, you can redirect the user to a success page or render a template. Alternatively, you can render the same template with the form to allow users to correct any validation errors.

You've now implemented form submissions in Django, allowing users to submit data through a form, validating it, and performing actions based on the submitted data

3.2.4 CUSTOM VALIDATION

Custom validation in Django allows you to define custom logic to validate form fields beyond the default field validation provided by Django's form classes. You can create custom validation methods within your form class to enforce specific validation rules.

Here's how you can implement custom validation in Django:

Step 1: Define a Form

Define your form class in your Django app's `forms.py` file. Include the fields you want to validate, and optionally, define custom validation methods. For example:

```
# myapp/forms.py

from django import forms

class MyForm(forms.Form):

    name = forms.CharField(max_length=100)
```



```
email = forms.EmailField()
```

```
def clean_name(self):
```

```
    name = self.cleaned_data['name']
```

```
    if not name.isalpha():
```

```
        raise forms.ValidationError("Name must only contain alphabetic characters.")
```

```
    return name
```

Step 2: Implement Custom Validation Methods

Inside your form class, define custom validation methods prefixed with `clean_`. These methods will be automatically called during form validation. In the example above, `clean_name()` is a custom validation method that checks if the name contains only alphabetic characters.

Step 3: Handle Validation Errors

If the custom validation fails, raise a `forms.ValidationError` with an appropriate error message. Django will collect these errors and display them alongside the corresponding form fields in the template when rendering the form.

Step 4: Submit and Process the Form

Process the form submission in your view as usual. Django will automatically call the custom validation methods during form validation. If the form data passes all validation rules, it will be available in `form.cleaned_data`.

Example View:

```
# myapp/views.py
```

```
from django.shortcuts import render
```

```
from .forms import MyForm
```

```
def my_form_view(request):
```

```
    if request.method == 'POST':
```

```
        form = MyForm(request.POST)
```

```
        if form.is_valid():
```

```
            # Process the form data
```



```
name = form.cleaned_data['name']  
email = form.cleaned_data['email']  
  
# Redirect to a success page or render a template  
  
else:  
  
    form = MyForm()  
  
    return render(request, 'my_template.html', {'form': form})
```

Example Template:

```
<!-- myapp/templates/my_template.html -->  
  
<form method="post">  
    {% csrf_token %}  
    {{ form.as_p }}  
    <button type="submit">Submit</button>  
</form>
```

Custom validation methods in Django forms are automatically called during form validation.

Use `clean_<fieldname>()` methods to define custom validation logic for specific fields.

If validation fails, raise `forms.ValidationError` with an appropriate error message.

Django automatically displays validation errors next to corresponding form fields in the template.

By implementing custom validation in Django forms, you can enforce complex validation rules tailored to your application's requirements.

3.2.5 CREATING MODEL FORMS

Creating model forms in Django allows you to easily create HTML forms based on your Django model definitions. These forms handle data validation, saving, and updating of model instances. Here's a step-by-step guide on how to create model forms:

Step 1: Define a Model

First, define your model in your Django app's `models.py` file. This model will serve as the basis for your model form. For example:

```
# myapp/models.py  
  
from django.db import models
```



```
class MyModel(models.Model):  
    name = models.CharField(max_length=100)  
    email = models.EmailField()  
    message = models.TextField()
```

Step 2: Create a ModelForm

Create a model form class in your Django app's forms.py file. This form class should inherit from `django.forms.ModelForm` and specify the model it's based on. For example:

```
# myapp/forms.py  
  
from django import forms  
  
from .models import MyModel  
  
class MyModelForm(forms.ModelForm):  
    class Meta:  
        model = MyModel  
        fields = ['name', 'email', 'message']
```

Step 3: Display the Form in a Template

Create an HTML template to render the model form. Include the form fields in the template using Django template language. For example:

```
<!-- myapp/templates/my_template.html -->  
  
<form method="post">  
    {% csrf_token %}  
    {{ form.as_p }}  
    <button type="submit">Submit</button>  
</form>
```

Step 4: Configure URLs

Map a view to a URL pattern in your Django project's `urls.py` file. This view will handle rendering the form and processing form submissions. For example:

```
# myproject/urls.py  
  
from django.urls import path
```



```
from myapp import views

urlpatterns = [

    path('my-form/', views.my_form_view, name='my-form'),

]
```

Step 5: Create a View

Define a view function or class-based view to render the model form and process form submissions. For example:

```
# myapp/views.py

from django.shortcuts import render, redirect
from .forms import MyModelForm

def my_form_view(request):
    if request.method == 'POST':
        form = MyModelForm(request.POST)
        if form.is_valid():
            form.save()
            return redirect('success-url') # Redirect to a success page
    else:
        form = MyModelForm()
        return render(request, 'my_template.html', {'form': form})
```

Model Definition: Define your model in models.py as usual.

ModelForm Definition: Create a model form class in forms.py that inherits from django.forms.ModelForm and specifies the model it's based on.

Template: Create an HTML template to render the form using Django template language ({{ form.as_p }}).

URL Configuration: Map a view to a URL pattern in urls.py.

View Function: Define a view function or class-based view to render the form and process form submissions. In the view, create an instance of the model form, handle form validation, and save the form data if it's valid.

By following these steps, you can easily create model forms in Django and use them to interact with your database models through HTML forms.

3.2.6 URLCONF TICKS

It seems like you're referring to URLconf, which stands for URL configuration in Django. In Django, URLconf is a set of patterns used by the URL dispatcher to determine the view that should handle an incoming HTTP request. Let me provide some key points and "ticks" (steps or tips) related to URLconf:

1. Define URL Patterns:

Define URL patterns in your Django project's `urls.py` module. Each URL pattern is a Python regular expression (regex) pattern mapped to a view function or class-based view.

Use the `path()` function to define URL patterns in Django 2.0 and later versions. In earlier versions, you can use `url()` instead.

2. Include Other URLconfs:

Use the `include()` function to include other URLconfs from your app modules or external apps. This allows you to organize your URL configuration into smaller, reusable components.

Include URL patterns from other apps by specifying the app name and URLconf module name.

3. Name Your URL Patterns:

Assign a name to each URL pattern using the `name` argument. Naming URL patterns makes it easier to refer to them in templates and view functions using the `{% url %}` template tag or the `reverse()` function.

4. Use Regular Expressions:

URL patterns in Django can use regular expressions to match dynamic parts of URLs. Use capturing groups `()` in your regex patterns to capture parts of the URL and pass them as arguments to the view function.

5. Order Matters:

The order of URL patterns in your URLconf matters. Django processes URL patterns in the order they appear in the URLconf, and stops at the first match. Place more specific patterns before more general ones.

6. Debugging:

Use Django's `runserver` command with the `--traceback` option to display detailed error tracebacks, including information about URL pattern matching and view function execution.

7. Namespacing URL Patterns:

When including URLconfs from other apps, you can namespace the URL patterns to avoid naming conflicts. Specify the namespace argument when using the `include()` function, and use the `{% url %}` tag with the namespace to refer to specific URL patterns.

8. Grouping URL Patterns:

You can group related URL patterns using the `path()` function with an empty string as the first argument. This allows you to apply common prefix or middleware to a group of URL patterns.

By following these ticks, you can effectively configure URL patterns in Django and ensure that incoming HTTP requests are routed to the appropriate view functions or class-based view

3.2.7 INCLUDING OTHER URLCONFS

Including other URLconfs in Django allows you to organize your URL configuration into smaller, reusable components. You can include URL patterns from other Django apps or modules into your project's main URLconf. Here's how to do it:

Step 1: Define URL Patterns in App-level URLconfs

In each Django app that you want to include in your project's main URLconf, define a URLconf module (`urls.py`) with its own URL patterns.

For example, in your app's `urls.py`:

```
# myapp/urls.py

from django.urls import path
from . import views

urlpatterns = [
    path('some-url/', views.some_view, name='some-url'),
    # Other URL patterns for this app...
]
```

Step 2: Include App-level URLconfs in Project-level URLconf

In your project's main URLconf (usually located at the root of your project directory), use the `include()` function to include URL patterns from each app's URLconf.

For example, in your project's `urls.py`:


```
# myproject/urls.py

from django.urls import path, include

urlpatterns = [

    path('myapp/', include('myapp.urls')), # Include URLs from the 'myapp' app
    # Other URL patterns for your project...
]
```

Step 3: Access App URLs

Now, all the URL patterns defined in the `myapp.urls` module will be accessible under the specified prefix ('`myapp/`' in this case). For example, if you have a view named `some_view` in the `myapp` app, it will be accessible at `/myapp/some-url/`.

Tips:

- The `include()` function allows you to include URL patterns from other modules. You provide the module path as an argument.
- You can include multiple `URLconfs` in your project's main `URLconf` by calling `include()` multiple times with different module paths.
- URL patterns in included `URLconfs` retain their relative paths. This means that if you include an app's `URLconf` under a specific prefix, all the URL patterns within that `URLconf` will be relative to that prefix.
- URL namespaces can be used to avoid naming conflicts when including multiple `URLconfs` with similar URL patterns.
- By including other `URLconfs` in your project, you can modularize your URL configuration and make it easier to manage and maintain, especially in larger projects with multiple apps