Createview – Class Based Views Django

Last Updated : 11 May, 2022

Create View refers to a view (logic) to create an instance of a table in the database. We have already discussed basics of Create View in Create View – Function based Views Django. Class-based views provide an alternative way to implement views as Python objects instead of functions. They do not replace function-based views, but have certain differences and advantages when compared to function-based views:

- Organization of code related to specific HTTP methods (GET, POST, etc.) can be addressed by separate methods instead of conditional branching.
- Object oriented techniques such as mixins (multiple inheritance) can be used to factor code into reusable components.

Class based views are simpler and efficient to manage than function-based views. A function based view with tons of lines of code can be converted into a class based views with few lines only. This is where Object Oriented Programming comes into impact.

Django Create View – Class Based Views

Illustration of **How to create and use create view** using an Example. Consider a project named geeksforgeeks having an app named geeks.

Refer to the following articles to check how to create a project and an app in Django.

- *How to Create a Basic Project using MVT in Django?*
- *How to Create an App in Django ?*

After you have a project and an app, let's create a model of which we will be creating instances through our view. In geeks/models.py,

Python3

```
# import the standard Django Model
# from built-in library
from django.db import models

# declare a new model with a name "GeeksModel"
class GeeksModel(models.Model):

    # fields of the model
    title = models.CharField(max_length = 200)
    description = models.TextField()

    # renames the instances of the model
    # with their title name
    def __str__(self):
        return self.title
```

After creating this model, we need to run two commands in order to create Database for the same.

```
Python manage.py makemigrations
Python manage.py migrate
```

Class Based Views automatically setup everything from A to Z. One just needs to specify which model to create View for and the fields. Then Class based CreateView will automatically try to find a template in app_name/modelname_form.html. In our case it is geeks/templates/geeks/geeksmodel_form.html. Let's create our class based view. In geeks/views.py,

Python3

```
from django.views.generic.edit import CreateView
from .models import GeeksModel

class GeeksCreate(CreateView):
```

```
    # specify the model for create view
    model = GeeksModel

    # specify the fields to be displayed

    fields = ['title', 'description']
```

Now create a url path to map the view. In geeks/urls.py,

Python3

```
from django.urls import path

# importing views from views..py
from .views import GeeksCreate
urlpatterns = [
    path('', GeeksCreate.as_view() ),
]
```

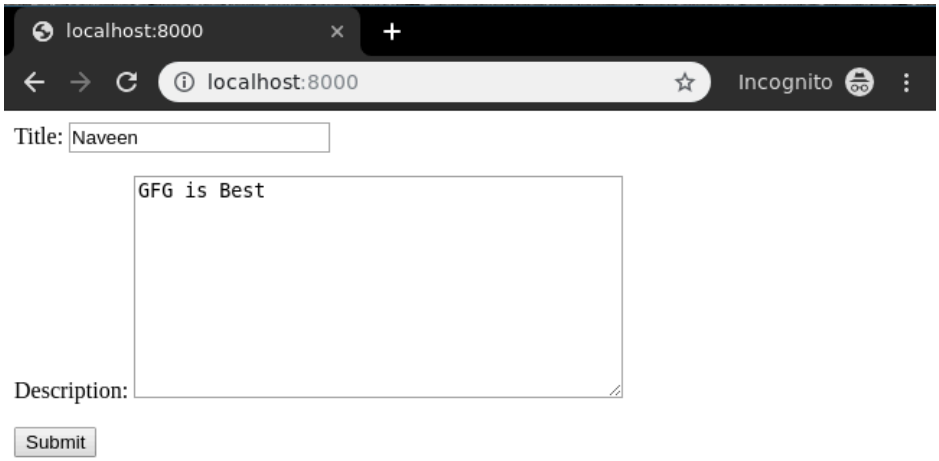
Create a template in templates/geeks/geeksmodel_form.html,

html

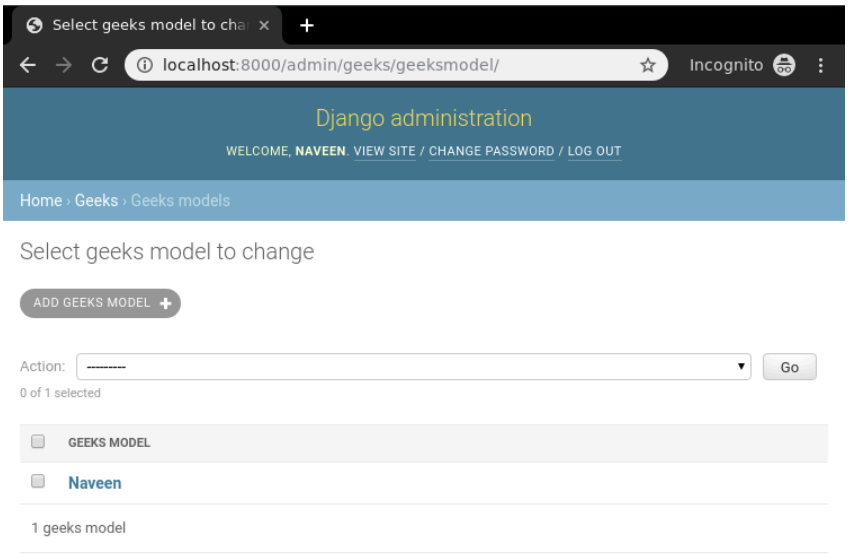
```
<form method="POST" enctype="multipart/form-data">

    <!-- Security token -->
    {% csrf_token %}

    <!-- Using the formset -->
    {{ form.as_p }}

    <input type="submit" value="Submit">
</form>
```

Let's check what is there on http://localhost:8000/

Now let's try to enter data in this form,



Bingo.! Create view is working and we can verify it using the instance created through the admin panel.



This way one can create view for a model in Django.

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