Day: 18 Date: 10/06/2024

Chapter: Forms in django, Topic: django forms

Form:

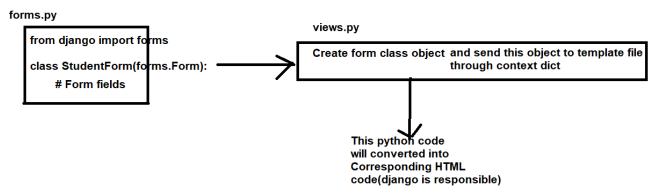
- Form is used to collect data from the end user.
- Form contains form elements like textbox, password box, checkbox, radio button etc.
- ❖ If a end-user want to insert records then the best way is to insert by using form why because end user does not know about these technical things like INSERT command, DAI (django admin interface) but by using a GUI form end user can enter the records.

Question: We can create the form by using HTML, but why do we go for django forms?

- ✓ With the help of django form we can develop form very easily.
- ✓ Here in django to develop form we will not write HTML code, instead of HTML code we will
 write python code. Behind the screen these python codes automatically converted into
 corresponding HTML code, and this is the responsibility of Django.
- ✓ We can validate forms very easily.
- If we want to develop a model the we have to define a python class and it must be the child of models. Model, similarly if we want to develop form then we have to define a python class and it must be the child class of forms. Form.
- ❖ If we want to define model, django provides models.py file but if we want to define form django does not provides forms.py file. It means as programmers we must create this forms.py file by our own in application level.

Project

Application



P018:

Problem Statement: Create a django based form.

Step 1: Common steps (folder creation, project, application and template creation and configuration)

Step 2: create forms.py file in application level.

Step 3: define form class

Forms.py

```
from django import forms

#Define your form class

class StudentForm(forms.Form):

name=forms.CharField()

age=forms.IntegerField()

email=forms.EmailField()

mark=forms.IntegerField()

college=forms.CharField()
```

Step 4: Create form class object inside views.py Views.py

```
from django.shortcuts import render

from .forms import StudentForm

# Create your views here.

def student_view(request):

#create the object of form class

form=StudentForm()

d={'form':form}

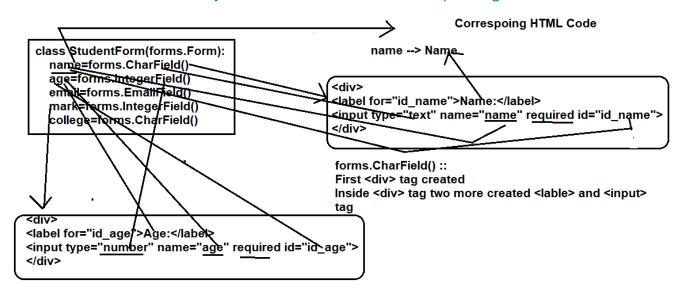
return render(request, 'FormApp/forms.html',d)
```

Step 5: forms.html

```
<title>Document</title>
</head>
<body>
{{ form }}
</body>
</html>
```

Step 7: Run server and send HTTP request http://127.0.0.1:8000/FormApp/forms/

Conversion of Python from class code into corresponding HTML code



P019:

Problem Statement: Use existing project(P0018) and fix the alignment problem.

What is the problem with django form?

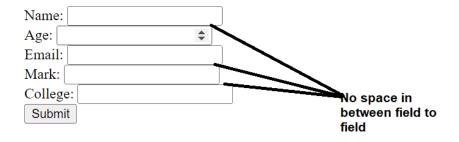
- ✓ Alignment problem
- ✓ By default, no submit button
- √ No form tag also

All these issues we have to fix by our own.

Add form tag and submit button

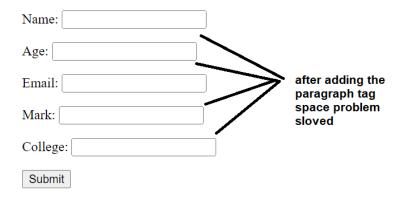
Form.html

Add form tag and submit button and fix space issues using paragraph tag



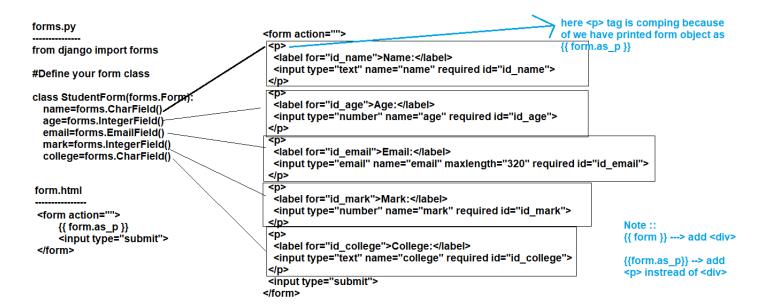
Forms.html

```
<!DOCTYPE html>
<html lang="en">
```



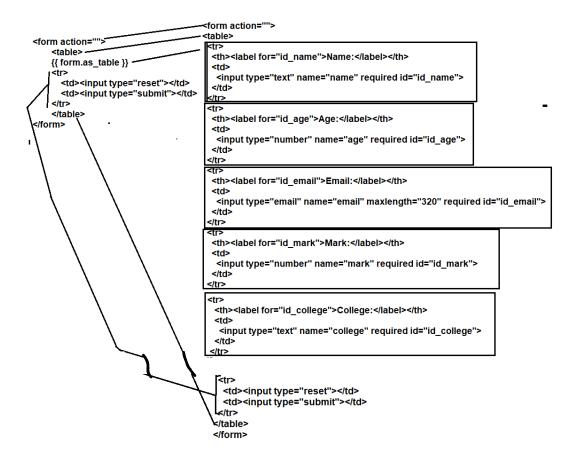
Generated corresponding HTML code

Django By Surendra Kumar Panda

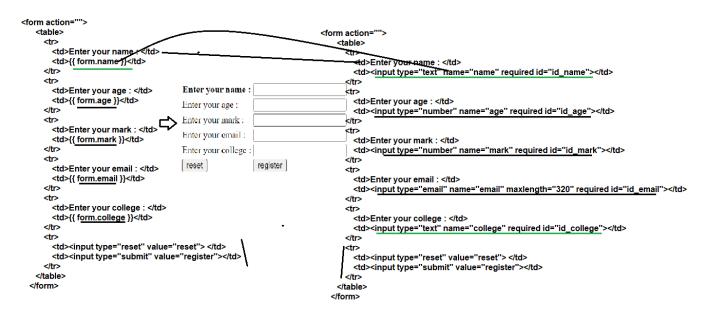


{{ Form.as_ul }}

{{ Form.as_table }}



Provide our own label name



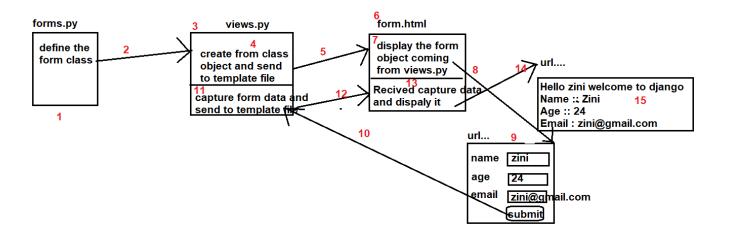
Day: 19 Date: 11/06/2024

Chapter: Forms in Django, Topic: Django form

Till now we have successfully created the django based form. Now we can enter data into the form then we can process this data inside views.py file.

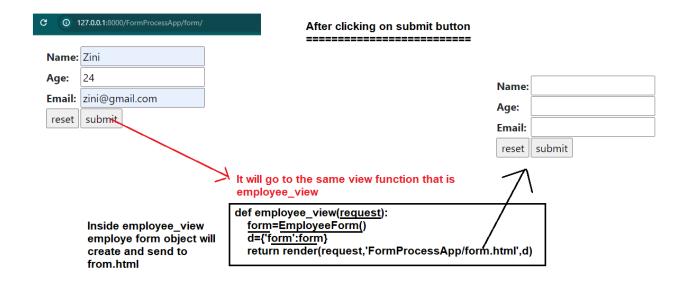
P020:

Problem Statement: Define form class, create the object inside views.py file send form object to templates file then display the form in browser, then end-user will fill data once the end-user click on submit button then capture this form data in views.py file. Then send this form captured data from views.py file to template file and display captured form itself.



All steps:

- Step 1: Common step
- Step 2: Create forms.py file in application level
- Step 3: Define form class inside forms.py file
- Step 4: Create form class object inside views.py file
- Step 5: Send form class object from views.py to template file through context dict.
- Step 6: Display form class object inside template file
- Step 7: Run sever and send HTTP request
- Step 8: Fill the data in the form
- Step 9: Click on submit button then capture form data in views.py file.
- Step 10: Send the captured form to template file and display captured form.



form.py

```
from django import forms
#define your form class

class EmployeeForm(forms.Form):
    name=forms.CharField()
    age=forms.IntegerField()
    email=forms.EmailField()
```

views.py

```
from django.shortcuts import render,HttpResponse
from .forms import EmployeeForm
# Create your views here.
def employee_view(request):
    if request.method=='POST':
        #capture the form data
        form=EmployeeForm(request.POST)
        d={'form':form}
        return render(request,'FormProcessApp/welcome.html',d)
    else:
        form=EmployeeForm()
        d={'form':form}
        return render(request,'FormProcessApp/form.html',d)
```

form.html

```
<!doctype html>
<html <pre>lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Bootstrap demo</title>
    k
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.cs">href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.cs"
s" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
crossorigin="anonymous">
  </head>
  <body>
    <div class="container mt-3">
        <form action="" method="post">
          {% csrf_token %}
             {{ form.as_table }}
                 <input type="reset" value="reset">
                     <input type="submit" value="submit">
                 </form>
    </div>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.m
in.js" integrity="sha384-
YvpcrYf0tY31HB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIds1K1eN7N6jIeHz"
crossorigin="anonymous"></script>
  </body>
</html>
```

welcome.html

```
<title>Bootstrap demo</title>
    Ink
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.cs">href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.cs"
s" rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
crossorigin="anonymous">
  </head>
  <body>
    <div class="container mt-3">
         <form action="" method="post">
           {{ form }}
         </form>
         <a href="{% url 'form' %}">Click here Back</a>
    </div>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.m
in.js" integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
crossorigin="anonymous"></script>
  </body>
</html>
```

Step 11: Run server and send HTTP request This request method is HTTP GET.

① 127.0.0.1:8000/FormProcessApp/form/		
Name:		
Age:		
Email:		
reset	submit	

Then fill the data

© Code Dais. All Rights Reserved.

Django By Surendra Kumar Panda

127.0.0.1:8000/FormProcessApp/form/		
Name:	zini	
Age:	24	
Email:	zini@gmail.com	
reset	submit	

Display captured form data

