Name: Rajvardhan Reddy Nandyala

Reg No: 180905093

Section: B , Batch : B1

Roll No: 19

**IT LAB -6 : FORM PROCCESING USING DJANGO**

**P1)**

**templates/prog1.html :**

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

body{

background-image: linear-gradient(to right,#ffffff,#bcf4ea,#c2ff59);

font-size: 30px;

font-family: 'Times New Roman', Times, serif;

}

option{

font-size: 20px;

color: white;

background-color: #1d1c36;

}

select{

font-size: 20px;

color: white;

background-color: #1d1c36;

}

form{

background-color: white;

padding: 20px 20px;

display: inline;

position: absolute;

top: 80px;

left: 40%;

box-shadow: 10px 10px 5px grey;

}

input{

background-color: #1d1c36 ;

color: white;

font-size: 20px;

padding: 5px 0px;

width: 200px;

}

tr{

margin-top: 300px;

padding-top: 20px;

}

</style>

<title>Document</title>

</head>

<body style="text-align:center;">

<form action="MFInfo" >

<table>

{{form.as\_table}}

</table>

<br>

<input type="submit">

</form>

</body>

</html>

**templates/prog1\_result.html :**

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

<style>

body{

background-image: linear-gradient(to right,#ffffffe3,#f4bce6,#59afffa4);

font-size: 30px;

color: blue;

text-align: center;

}

table{

font-size: 30px;

position: absolute;

left: 40%;

top: 80px;

background-color: white;

padding: 10px;

box-shadow: 10px 10px 5px grey;

}

</style>

</head>

<body>

<table>

<tr>

<th>manufacturer:</th>

<th>{{manufacturer}}</th>

</tr>

<tr>

<th>model:</th>

<th>{{model}}</th>

</tr>

</table>

</body>

</html>

**forms.py :**

from django import forms

from django.forms.widgets import Widget

class car(forms.Form):

manufacturer = forms.ChoiceField(choices=[("Hyundai","Hyundai"),("Mercedes-Benz","Mercedes-Benz"),("McLaren","McLaren"),("BMW","BMW")],label="Manufacturer")

model = forms.CharField(label="Model")

**views.py:**

from django.http import request

from django.shortcuts import render

from .forms import car

# Create your views here.

def home(request):

form = car()

return render(request,'prog1.html',{"form":form})

def result(request):

c = request.GET["manufacturer"]

p = request.GET["model"]

return render(request,"prog1\_result.html",{"manufacturer":c,"model":p}

**urls.py :**

from django.urls import path

from . import views

urlpatterns = [

path('',views.home,name="home"),

path('MFInfo',views.result,name = "result")

]

**urls.py :**

from django.contrib import admin

from django.urls import path,include

urlpatterns = [

path('admin/', admin.site.urls),

#path('',include('prob1.urls')),

#path('',include('prob2.urls')),

#path('',include('prob3.urls')),

#path('',include('prob4.urls')),

#path('',include('prob5.urls')),

path('',include('prob6.urls')),

]

**Output:**

**A picture containing graphical user interface

Description automatically generated**

**A screenshot of a computer

Description automatically generated**

**P2)**

**templates/prog2.html:**

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

<form action="sec\_page" method="POST">

{% csrf\_token %}

<table>

{{form.as\_table}}

</table>

<br>

<input type="submit">

</form>

</body>

</html>

**templates/prog2\_result.html:**

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

<table>

<tr>

<th style="text-align: end;">Name: </th>

<th style="text-align: start;">{{name}}</th>

</tr>

<tr>

<th style="text-align: end;">Roll\_no: </th>

<th style="text-align: start;">{{roll\_no}}</th>

</tr>

<tr>

<th style="text-align: end;">Subjects: </th>

<th style="text-align: start;">{{subject}}</th>

</tr>

</table>

<br>

<form action="first\_page">

<input type="submit" value="home">

</form>

</body>

</html>

**forms.py:**

from django import forms

from django.forms.widgets import Widget

class Registration(forms.Form):

username = forms.CharField(label="Username")

password = forms.CharField(label="Password",widget=forms.PasswordInput())

email = forms.EmailField(label="E-mail",widget=forms.EmailInput(),required=False)

contact\_no = forms.IntegerField(label="contact",widget=forms.NumberInput(),required=False,min\_value=100000000,max\_value=9999999999)

**views.py:**

from django.http import request

from django.shortcuts import render

from .forms import Student

# Create your views here.

def home(request):

form = Student()

return render(request,'prog2.html',{"form":form})

def secPage(request):

form = Student(request.POST)

if form.is\_valid():

a = request.session

a['name']=form.cleaned\_data['name']

a['roll\_no']=form.cleaned\_data["roll\_no"]

a['subject']=form.cleaned\_data["subject"]

return render(request,'prog2\_2.html',{"name":a["name"],"roll\_no":a["roll\_no"],"subject":a["subject"]})

else:

return render(request,'prog2\_2.html',{"name":" ","roll\_no":" ","subject":" "})

def firstPage(request):

if request.session.has\_key('name'):

del request.session["name"]

if request.session.has\_key('roll\_no'):

del request.session["roll\_no"]

if request.session.has\_key('roll\_no'):

del request.session["roll\_no"]

form = Student()

return render(request,'prog2.html',{"form":form})

**urls.py:**

from django.urls import path

from . import views

urlpatterns = [

path('',views.home,name="home"),

path('register',views.register,name="register")

]

**urls.py:**

from django.contrib import admin

from django.urls import path,include

urlpatterns = [

path('admin/', admin.site.urls),

#path('',include('prob1.urls')),

path('',include('prob2.urls')),

#path('',include('prob3.urls')),

#path('',include('prob4.urls')),

#path('',include('prob5.urls')),

#path('',include('prob6.urls')),

]

**Output:**

**A picture containing background pattern

Description automatically generated**

**A picture containing background pattern

Description automatically generated**

**Background pattern

Description automatically generated with low confidence**

**P3)**

**templates/prog3.html:**

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

<form action="sec\_page" method="POST">

{% csrf\_token %}

<table>

{{form.as\_table}}

</table>

<br>

<input type="submit">

</form>

</body>

</html>

**Templates/prog3\_result.html :**

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

<form action="sec\_page" method="POST">

{% csrf\_token %}

<table>

{{form.as\_table}}

</table>

<br>

<input type="submit">

</form>

</body>

</html>

**forms.py :**

from django import forms

class Student(forms.Form):

name = forms.CharField(label="Name")

roll\_no = forms.IntegerField(label="Roll\_no:")

subject = forms.ChoiceField(choices=[("CN","CN"),("EOM","EOM"),("OS","OS"),("SE","SE")],label="Subjects")

**views.py:**

from django.http import request

from django.shortcuts import render

from .forms import Registration

# Create your views here.

def home(request):

form = Registration()

return render(request,'prog3.html',{"form":form})

def register(request):

form = Registration(request.POST)

if form.is\_valid():

username = form.cleaned\_data["username"]

email = form.cleaned\_data["email"]

contact\_no = form.cleaned\_data["contact\_no"]

return render(request,"prog3\_2.html",{"username":username,"email":email,"contact\_no":contact\_no})

return render(request,"prog3\_2.html",{"username":" ","email":" ","contact\_no":" "})

**urls.py:**

from django.urls import path

from . import views

urlpatterns = [

path('',views.home,name="home"),

path('sec\_page',views.secPage,name="secPage"),

path('first\_page',views.firstPage,name="firstPage")

]

**urls.py:**

from django.contrib import admin

from django.urls import path,include

urlpatterns = [

path('admin/', admin.site.urls),

#path('',include('prob1.urls')),

#path('',include('prob2.urls')),

path('',include('prob3.urls')),

#path('',include('prob4.urls')),

#path('',include('prob5.urls')),

#path('',include('prob6.urls')),

]

**Output:**

**A picture containing background pattern

Description automatically generated**

**A picture containing background pattern

Description automatically generated**

**P4)**

**templates/prog4.html:**

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

<form action="bill" method="GET">

{{form}}

<br>

<input type="submit" value="Produce Bill">

</form>

</body>

</html>

**Templates/prog4\_result.html:**

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

<span>{{devices}}: {{quantity}} x ₹{{cost}} = ₹{{total}}</span><br>

<button>Proceed to Pay</button>

</body>

</html>

**forms.py:**

from django import forms

from django.forms.widgets import Widget

class Device(forms.Form):

devices = forms.ChoiceField(choices=[("HP","HP"),("Nokia","Nokia"),("Samsung","Samsung"),("Motorola","Motorola"),("Apple","Apple")],label="Select the Device",widget=forms.RadioSelect())

quantity = forms.IntegerField(label="Enter the quantity",min\_value=1,max\_value=6,widget=forms.NumberInput())

**views.py:**

from django.http import request

from django.shortcuts import render

from .forms import Device

# Create your views here.

def home(request):

form = Device()

return render(request,'prog4.html',{"form":form})

def bill(request):

form = Device(request.GET)

if form.is\_valid():

devices = form.cleaned\_data['devices']

quantity = int(form.cleaned\_data['quantity'])

if devices == "HP":

device\_cost = 40000

elif devices == "Nokia":

device\_cost = 15000

elif devices == "Samsung":

device\_cost = 50000

elif devices == "Motorola":

device\_cost = 25000

else:

device\_cost = 90000

total = device\_cost \* quantity

return render(request,'prog4\_2.html',{'devices':devices,"cost":device\_cost,"quantity":quantity,"total":total})

**urls.py:**

from django.urls import path

from . import views

urlpatterns = [

path('',views.home,name="home"),

path('bill',views.bill,name="bill")

]

**urls.py:**

from django.contrib import admin

from django.urls import path,include

urlpatterns = [

path('admin/', admin.site.urls),

#path('',include('prob1.urls')),

#path('',include('prob2.urls')),

#path('',include('prob3.urls')),

path('',include('prob4.urls')),

#path('',include('prob5.urls')),

#path('',include('prob6.urls')),

]

**Output:**

**Background pattern

Description automatically generated with low confidence**

**Background pattern

Description automatically generated with low confidence**