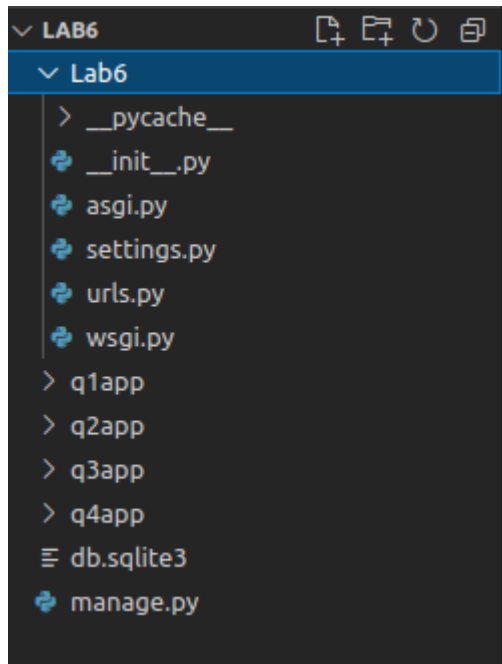


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CSE C 23  
IT LAB 6  
Form Processing using Django

Folder Structure  
Created a Project called Lab6.  
Created 4 apps in it one for each question.



Changes made in the Lab6/Lab6 folder

/settings.py

```
INSTALLED_APPS = [  
    'q1app',  
    'q2app',  
    'q3app',  
    'q4app',  
    'django.contrib.admin',
```

/urls.py

```
from django.contrib import admin  
from django.urls import path  
from django.conf.urls import include  
  
urlpatterns = [  
    path('admin/', admin.site.urls),  
    path('q1/', include('q1app.urls')),
```

```
path('q2/', include('q2app.urls')),
path('q3/', include('q3app.urls')),
path('q4/', include('q4app.urls')),
]
```

Now Questions:

1. q1app folder files for 1st qsn

Created a files forms.py

```
from django import forms

CHOICES = (('Maruti Suzuki', 'Maruti Suzuki'), ('Hyundai India',
'Hyundai India'),
           ('Mahindra & Mahindra', 'Mahindra & Mahindra'),)

class CarForm(forms.Form):
    manufacturer = forms.ChoiceField(widget=forms.Select(
        attrs={'class': 'dropdownclass'}), choices=CHOICES)
    model = forms.CharField(
        label='Model name :', max_length=100)
```

Created a files urls.py

```
from django.urls import path

from . import views

app_name = 'q1app'
urlpatterns = [
    path('choose', views.page1, name='page1'),
    path('results', views.page2, name='page2'),
]
```

views.py

```
from django.shortcuts import render, HttpResponseRedirect

from .forms import CarForm

def page1(request):
    form = CarForm()
    return render(request, 'page1.html', {'form': form})
```

```
def page2(request):
    manufacturer = "no car manufacturer"
    model = "no car model"
    if request.method == 'POST':
        form = CarForm(request.POST)
        if form.is_valid():
            manufacturer = form.cleaned_data['manufacturer']
            model = form.cleaned_data['model']
    else:
        form = CarForm()
    context = {'manufacturer': manufacturer, 'model': model}
    return render(request, 'page2.html', context)
```

Created a folder templates  
Inside it created html files

page1.html

```
<html>
  <head>
    <title>Car Manufacturer Form</title>
  </head>
<body style="text-align: center;margin-top: 200px;background-color:
tomato;">
  <style>
    .dropdownclass{
      border: 4px solid #8842d5;
      border-radius: 5px;
      width: 250px;
      text-align: center;
    }
    input{
      border: 4px solid #8842d5;
      border-radius: 5px;
      width: 250px;
      line-height: 20px;
      text-align: center;
    }
  </style>
  <h1>Car Manufacturer Form</h1>
  <form action="results" method="post">
```

```

        {% csrf_token %}
        {{ form.as_p }}
        <input type="submit" value="Submit">
    </form>
</body>
</html>

```

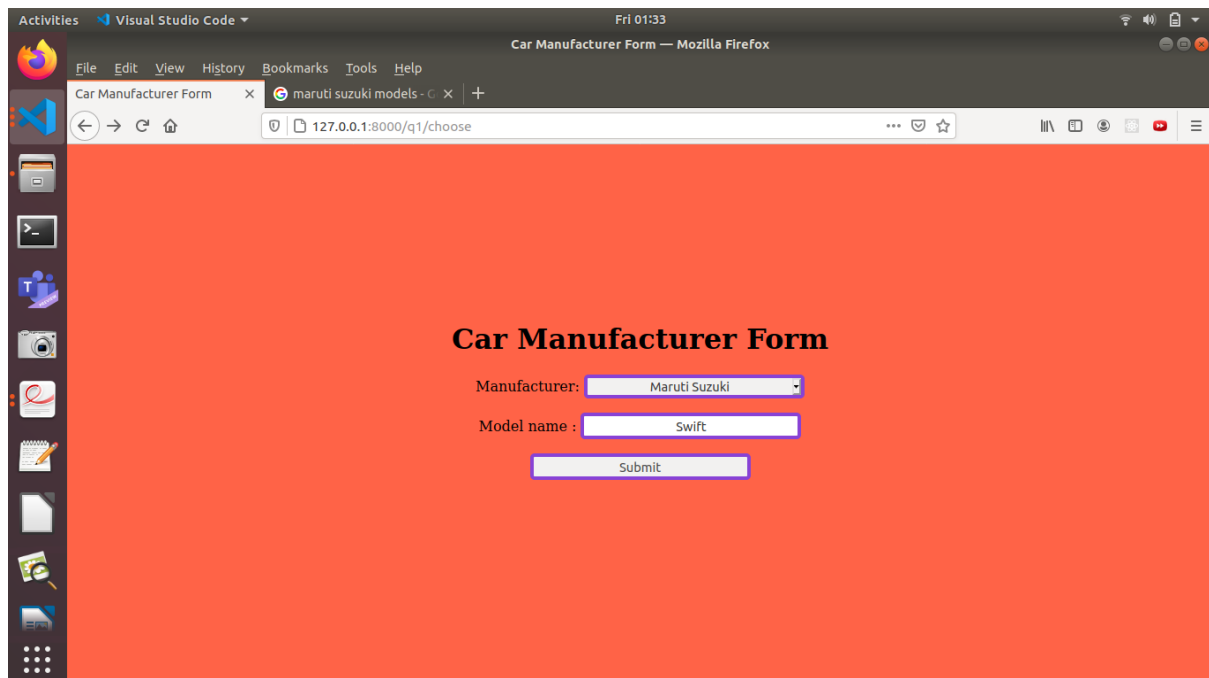
page2.html

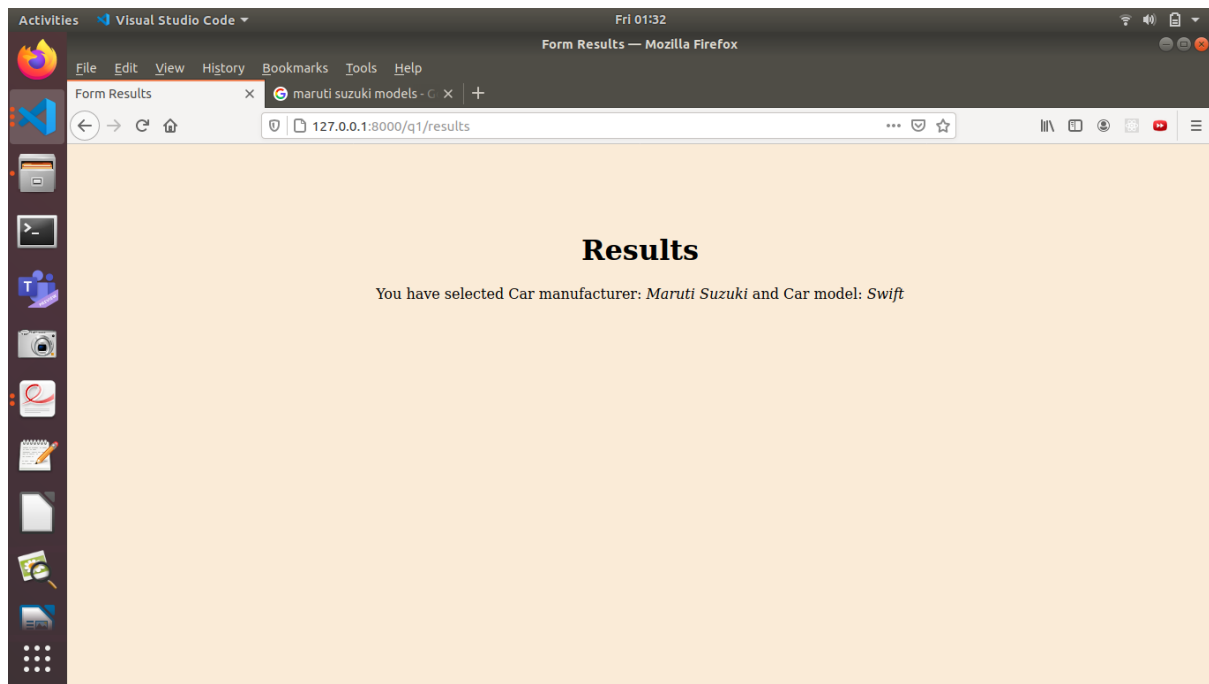
```

<html>
    <head>
        <title>Form Results</title>
    </head>
    <body style="text-align: center;margin: 100px auto
;background-color: antiquewhite;">
        <h1>Results</h1>
        You have selected Car manufacturer: <i>{{manufacturer}}</i> and Car
model: <i>{{model}}</i>
    </body>
</html>

```

## Screenshots





## 2. q2app folder files for 2nd qsn

Created a file forms.py

```
from django import forms

CHOICES = (('EEFM', 'EEFM'), ('PCAP', 'PCAP'), ('ACNW', 'ACNW'),
           ('POC', 'POC'),
           ('DS', 'DS'),)

class StudentForm(forms.Form):
    name = forms.CharField(
        label='Student name :', max_length=100)
    rollNo = forms.CharField(
        label='Roll number :', max_length=100)
    subjectSelected = forms.ChoiceField(widget=forms.Select,
    choices=CHOICES)
```

Created a file urls.py

```
from django.urls import path

from . import views

app_name = 'q2app'
urlpatterns = [
    path('choose', views.page1, name='page1'),
    path('results', views.page2, name='page2'),
```

```
path('clear', views.clearPage, name='clearPage'),  
]
```

views.py

```
from django.shortcuts import render, HttpResponseRedirect, HttpResponse  
  
from .forms import StudentForm  
  
def page1(request):  
    if request.session.has_key('studentData'):  
        name = request.session['studentData']['name']  
        rollNo = request.session['studentData']['rollNo']  
        subjectSelected =  
request.session['studentData']['subjectSelected']  
        context = {'name': name, 'rollNo': rollNo,  
                    'subjectSelected': subjectSelected}  
        return render(request, 'secondPage.html', context)  
    else:  
        form = StudentForm()  
        return render(request, 'firstPage.html', {'form': form})  
  
def page2(request):  
    name = "no name"  
    rollNo = "no roll no"  
    subjectSelected = "no subject selected"  
    if request.method == 'POST':  
        form = StudentForm(request.POST)  
        if form.is_valid():  
            name = form.cleaned_data['name']  
            rollNo = form.cleaned_data['rollNo']  
            subjectSelected = form.cleaned_data['subjectSelected']  
            request.session['studentData'] = {  
                'name': name, 'rollNo': rollNo, 'subjectSelected':  
subjectSelected}  
        else:  
            form = StudentForm()  
    context = {'name': name, 'rollNo': rollNo,  
                'subjectSelected': subjectSelected}  
    return render(request, 'secondPage.html', context)
```

```
def clearPage(request):
    try:
        del request.session['studentData']
    except:
        pass
    return HttpResponseRedirect("<strong>Session data has been
cleared</strong>")
```

Created a folder for templates in q2app folder  
Inside it created html files

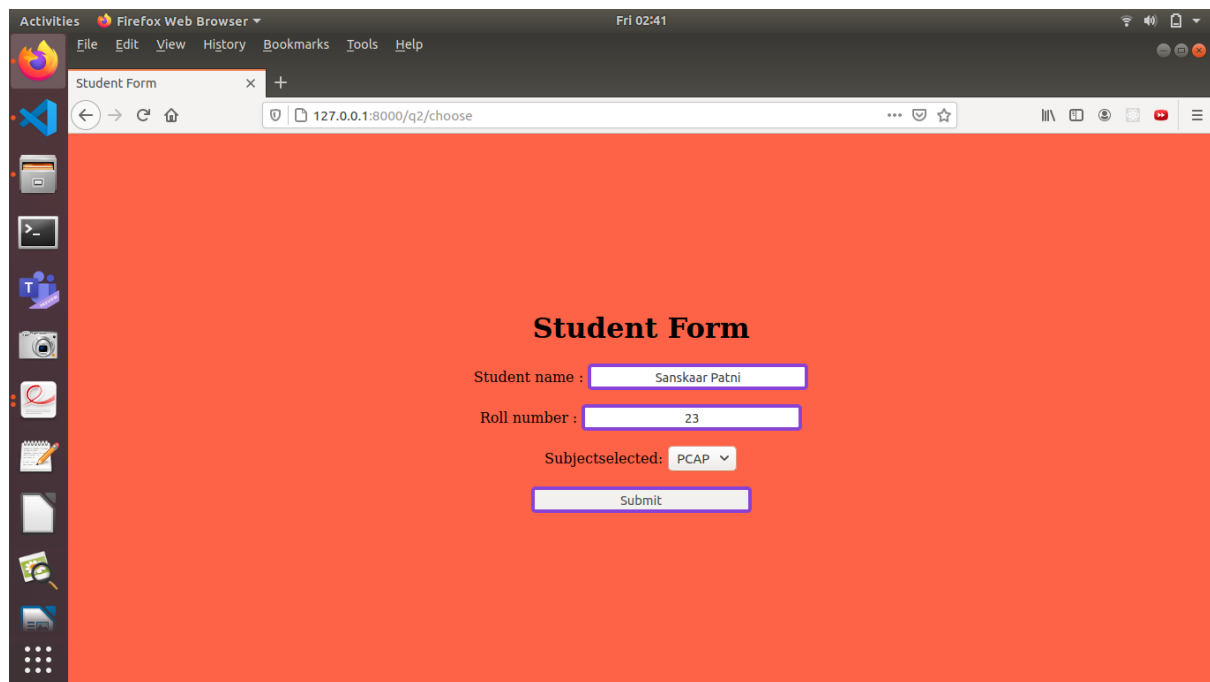
firstPage.html

```
<html>
    <head>
        <title>Student Form</title>
    </head>
<body style="text-align: center;margin-top: 200px;background-color:
tomato;">
    <style>
        .dropdownclass{
            border: 4px solid #8842d5;
            border-radius: 5px;
            width: 250px;
            text-align: center;
        }
        input{
            border: 4px solid #8842d5;
            border-radius: 5px;
            width: 250px;
            line-height: 20px;
            text-align: center;
        }
    </style>
    <h1>Student Form</h1>
    <form action="results" method="post">
        {% csrf_token %}
        {{ form.as_p }}
        <input type="submit" value="Submit">
    </form>
</body>
</html>
```

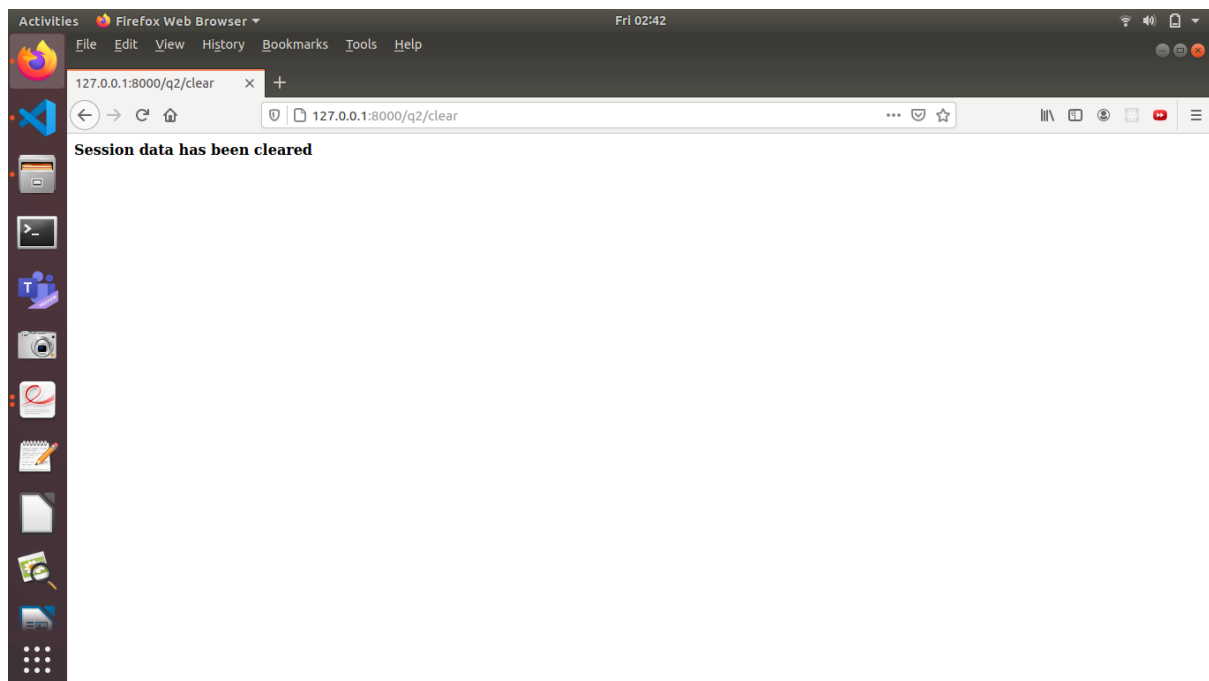
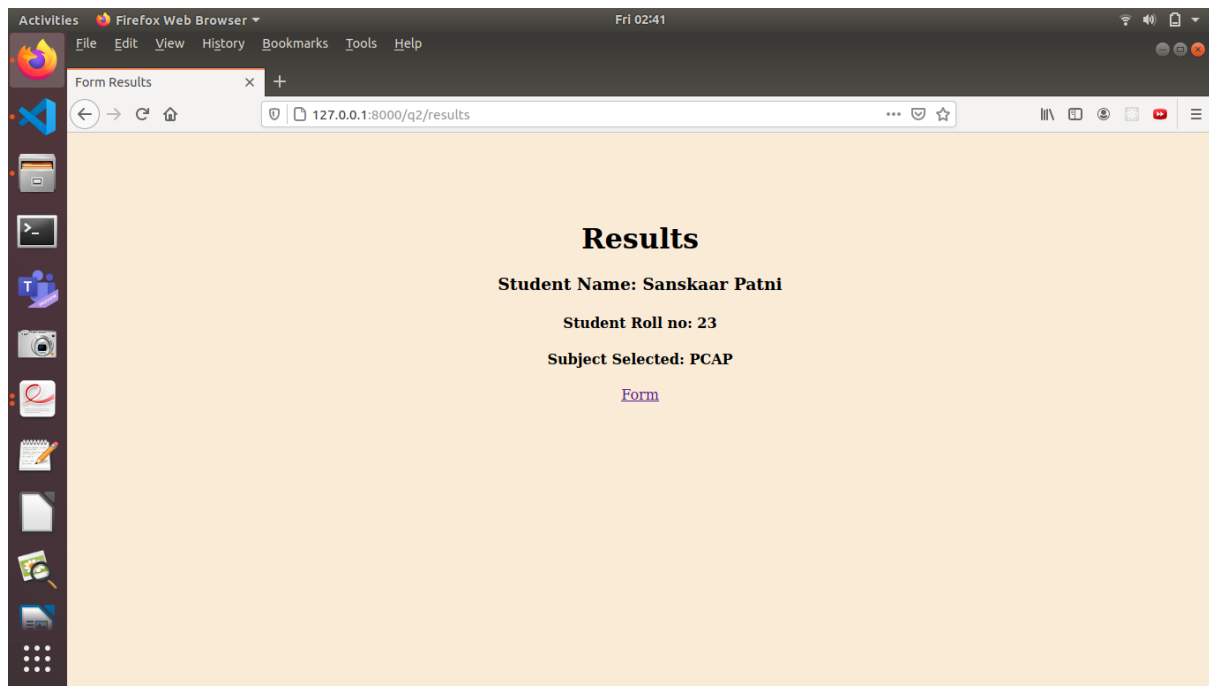
## secondPage.html

```
<html>
  <head>
    <title>Form Results</title>
  </head>
  <body style="text-align: center;margin: 100px auto
;background-color: antiquewhite;">
    <h1>Results</h1>
    <h3>Student Name: {{name}}</h3>
    <h4>Student Roll no: {{rollNo}}</h4>
    <h4>Subject Selected: {{subjectSelected}}</h4>
    <a href="choose">Form</a>
  </body>
</html>
```

## Screenshots







3. q3app folder files for 3rd qsn

Created a file forms.py

```
from typing import Text
from django import forms

class RegisterForm(forms.Form):
    username = forms.CharField(
        widget=forms.TextInput, label='Username :',)
    email = forms.CharField(
```

```

        widget=forms.EmailInput, label='Email :', required=False)
password = forms.CharField(
    widget=forms.PasswordInput, label='Password :', required=False)
contact = forms.CharField(widget=forms.NumberInput,
                           label='Contact No :', required=False)

```

Created a file urls.py

```

from django.urls import path

from . import views

app_name = 'q3app'
urlpatterns = [
    path('register', views.register, name='register'),
    path('success', views.success, name='success'),
]

```

views.py

```

from django.shortcuts import render, HttpResponseRedirect

from .forms import RegisterForm

def register(request):
    form = RegisterForm()
    return render(request, 'register.html', {'form': form})

def success(request):
    if request.method == 'POST':
        form = RegisterForm(request.POST)
        if form.is_valid():
            username = form.cleaned_data['username']
            email = form.cleaned_data['email']
            contact = form.cleaned_data['contact']
        else:
            form = RegisterForm()
    context = {'username': username, 'email': email, 'contact': contact}
    return render(request, 'success.html', context)

```

Created a folder templates

Inside it created html files

register.html

```

<html>
  <head>
    <title>Register</title>
  </head>
<body style="text-align: center;background-color: #F7CAC9;margin-top:
100px;">
  <style>
    .dropdownclass{
      border: 4px solid #8842d5;
      border-radius: 5px;
      width: 250px;
      text-align: center;
    }
    input{
      border: 4px solid #8842d5;
      border-radius: 5px;
      width: 250px;
      line-height: 20px;
      text-align: center;
    }

    .container{
      margin-top: 70px;
    }
  </style>
  <h1>Register</h1>
  <div class="container">
    <form action="success" method="post">
      {% csrf_token %}
      {{ form.as_p }}
      <input type="submit" value="Submit">
    </form>
  </div>
</body>
</html>

```

#### success.html

```

<html>
  <head>
    <title>Form Results</title>
  </head>
  <body style="text-align: center;margin: 100px auto
;background-color: antiquewhite;">

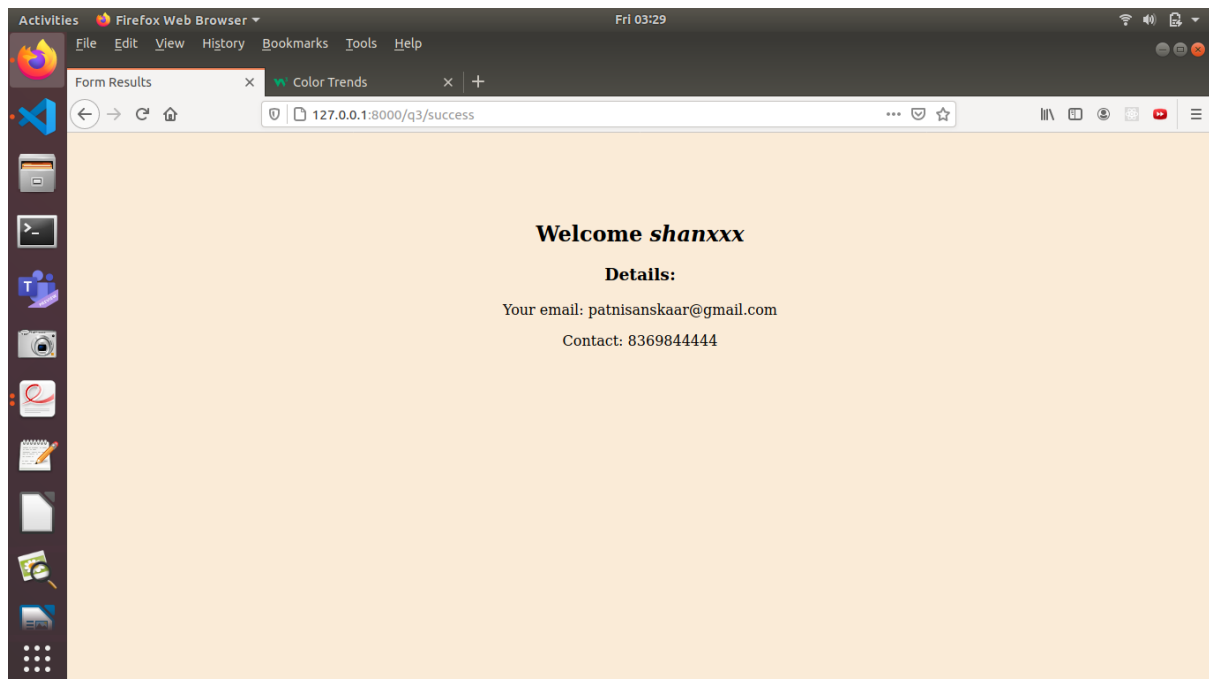
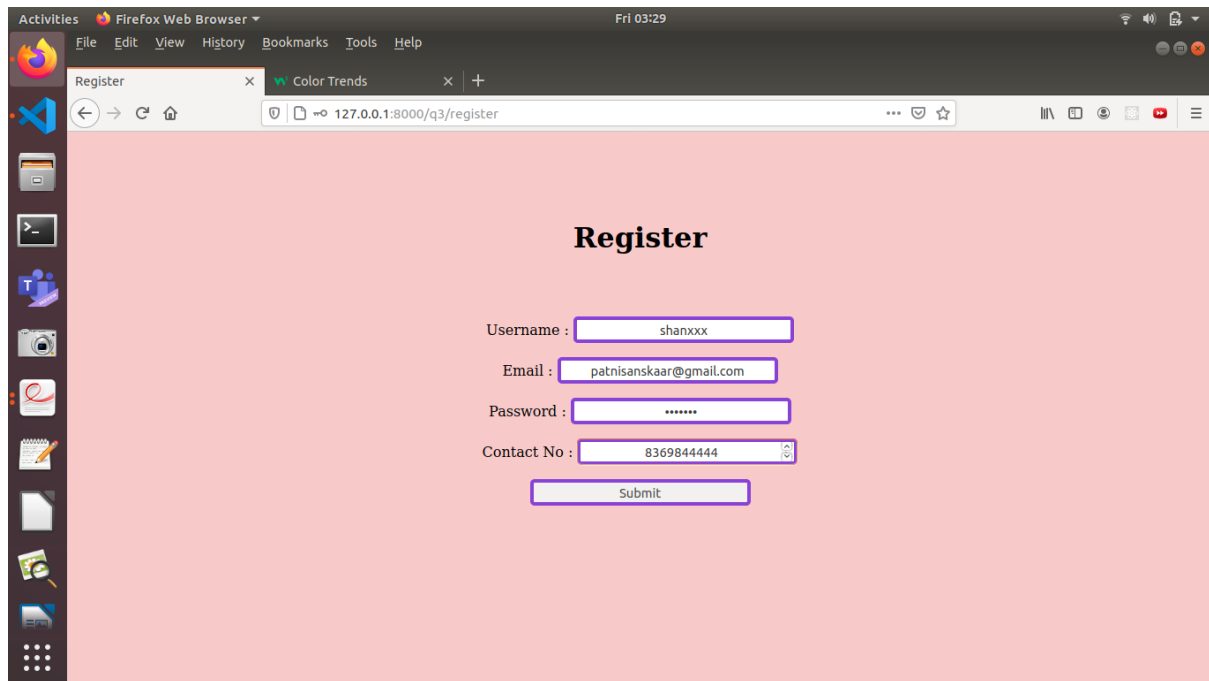
```

```

<h2>Welcome <i>{{username}}</i></h2>
<h3>Details: </h3>
<p>Your email: {{email}}</p>
<p>Contact: {{contact}} </p>
</body>
</html>

```

## Screenshots:



## 4. q4app folder files for 4th qsn

Created a file forms.py

```
from django import forms
```

```

CHOICES1 = (('HP', 'HP'), ('Nokia', 'Nokia'), ('Samsung', 'Samsung'),
            ('Motorola', 'Motorola'), ('Apple', 'Apple'))

CHOICES2 = (('Laptop', 'Laptop'), ('Mobile', 'Mobile'))

class MobileForm(forms.Form):
    manufacturer = forms.ChoiceField(widget=forms.RadioSelect(
        attrs={'class': "custom-radio-list"}), choices=CHOICES1)
    device = forms.MultipleChoiceField(
        widget=forms.CheckboxSelectMultiple, choices=CHOICES2)
    quantity = forms.IntegerField(
        label='Quantity :')

```

Created a files urls.py

```

from django.urls import path

from . import views

app_name = 'q4app'
urlpatterns = [
    path('choose', views.page1, name='page1'),
    path('results', views.page2, name='page2'),
]

```

views.py

```

from django.shortcuts import render, HttpResponseRedirect

from .forms import MobileForm

def page1(request):
    form = MobileForm()
    return render(request, 'pageOne.html', {'form': form})

def page2(request):
    manufacturer = ""
    device = ""
    quantity = 0
    if request.method == 'POST':
        form = MobileForm(request.POST)

```

```

        if form.is_valid():
            manufacturer = form.cleaned_data['manufacturer']
            device = form.cleaned_data['device']
            quantity = form.cleaned_data['quantity']
        else:
            form = MobileForm()

amountForOne = 0
if manufacturer == 'HP':
    if device == 'Laptop':
        amountForOne = 20
    else:
        amountForOne = 10
elif manufacturer == 'Nokia':
    if device == 'Laptop':
        amountForOne = 30
    else:
        amountForOne = 20
elif manufacturer == 'Samsung':
    if device == 'Laptop':
        amountForOne = 40
    else:
        amountForOne = 30
elif manufacturer == 'Motorola':
    if device == 'Laptop':
        amountForOne = 50
    else:
        amountForOne = 40
elif manufacturer == 'Apple':
    if device == 'Laptop':
        amountForOne = 60
    else:
        amountForOne = 50
context = {'manufacturer': manufacturer,
           'device': device[0], 'quantity': quantity,
           'amountForOne': amountForOne}
return render(request, 'pageTwo.html', context)

```

Created a folder templates  
Inside it created html files

## pageOne.html

```
<html>
  <head>
    <title>Register</title>
  </head>
<body style="text-align: center;margin-top:
100px;background-color:#92A8D1;">
  <style>
    .custom-radio-list{
      list-style-type: none;
      display: flex;
      text-align: center;
      justify-content: flex-end;
      align-items: center;
    }
    input{
      border: 4px solid #8842d5;
      border-radius: 5px;
      width: 250px;
      line-height: 20px;
      text-align: center;
    }
    #id_device{
      list-style-type:none ;
    }
  </style>
  <h1>Electronics Purchase Form</h1>
  <form action="results" method="post">
    {% csrf_token %}
    {{ form.as_p }}
    <input type="submit" value="Produce Bill">
  </form>
</body>
</html>
```

## pageTwo.html

```
<html>
  <head>
    <title>Form Results</title>
  </head>
  <body style="text-align: center;margin: 100px auto
;background-color: antiquewhite;">
    <h1>Results</h1>
```

```

<p>You have selected company: <i>{{manufacturer}}</i></p>
<p>You have selected device type: <i>{{device}}</i></p>
<p>You have selected Quantity: <i>{{quantity}}</i></p>
<br/>
<p>Amount for one {{manufacturer}} {{device}} is Rs.
{{amountForOne}}K</i></p>
<p>Total Cost: Rs. {% widthratio quantity 1 amountForOne %}K</p>
</body>
</html>

```

## Screenshots:

