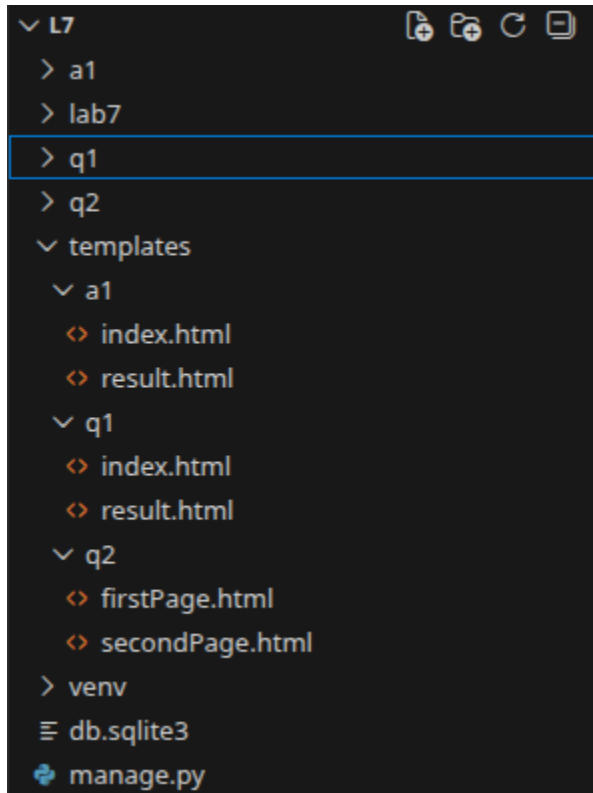


Lab 7 - Form Processing using Django – Part I



Settings.py:

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'q1',
    'q2',
    'a1',
]
```

Urls.py:

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('q1/', include('q1.urls')),

```

```
path('q2/', include('q2.urls')),
path('a1/', include('a1.urls')),
]
```

Q1 Codes:

Index.html:

```
<!DOCTYPE html>
<html>
<head>
<title>Car Manufacturer</title>
<style>
form { margin: 20px; }
.form-control { padding: 8px; margin: 5px 0; }
button { padding: 10px 20px; }
</style>
</head>
<body>
<h2>Select Car Manufacturer</h2>
<form method="POST" action="{% url 'q1_result' %}">
{% csrf_token %}
{{ form.as_p }}
<button type="submit">Submit</button>
</form>
</body>
</html>
```

Result.html:

```
<!DOCTYPE html>
<html>
<head>
<title>Car Details</title>
</head>
<body>
<h2>Car Details</h2>
<p>Manufacturer: <strong>{{ manufacturer }}</strong></p>
<p>Model: <strong>{{ model }}</strong></p>
<a href="{% url 'q1_index' %}">Go Back</a>
</body>
</html>
```

Forms.py:

```
from django import forms
```

```

class CarForm(forms.Form):
    MANUFACTURER_CHOICES = [
        ('', 'Choose...'),
        ('Toyota', 'Toyota'),
        ('Honda', 'Honda'),
        ('Ford', 'Ford'),
        ('Nissan', 'Nissan'),
        ('BMW', 'BMW'),
    ]
    manufacturer = forms.ChoiceField(
        choices=MANUFACTURER_CHOICES,
        widget=forms.Select(attrs={'class': 'form-control'})
    )
    model = forms.CharField(
        max_length=100,
        widget=forms.TextInput(attrs={
            'class': 'form-control',
            'placeholder': 'Enter car model name'
        })
    )

```

Urls.py:

```

from django.urls import path
from . import views

urlpatterns = [
    path("", views.index, name='q1_index'),
    path('result/', views.result, name='q1_result'),
]

```

Views.py:

```

from django.shortcuts import render
from django.http import HttpResponse
from .forms import CarForm

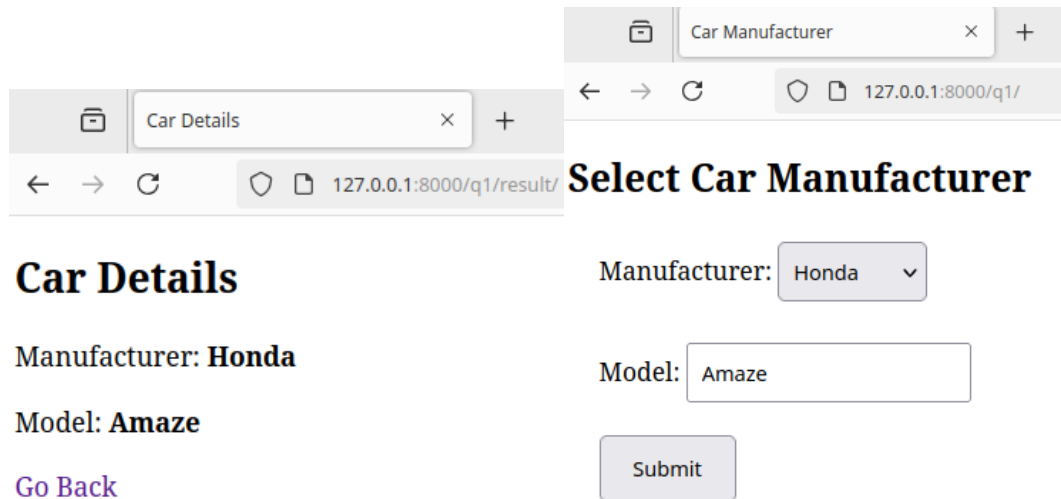
def index(request):
    form = CarForm()
    return render(request, 'q1/index.html', {'form': form})

def result(request):
    if request.method == 'POST':
        form = CarForm(request.POST)
        if form.is_valid():
            manufacturer = form.cleaned_data['manufacturer']
            model = form.cleaned_data['model']

```

```
return render(request, 'q1/result.html', {
    'manufacturer': manufacturer,
    'model': model
})
return HttpResponse("Invalid request")
```

Screenshots:



Car Details

Manufacturer: **Honda**

Model: **Amaze**

[Go Back](#)

Select Car Manufacturer

Manufacturer:

Model:

Q2 Codes:

firstpage.html:

```
<!DOCTYPE html>
<html>
<head>
<title>First Page</title>
<style>
form { margin: 20px; }
.form-control { padding: 8px; margin: 5px 0; }
button { padding: 10px 20px; }
</style>
</head>
<body>
<h2>First Page</h2>
<form method="POST">
{ % csrf_token % }
{ { form.as_p } }
<button type="submit">Go to Second Page</button>
</form>
</body>
</html>
```

secondpage.html:

```

<!DOCTYPE html>
<html>
<head>
<title>Second Page</title>
</head>
<body>
<h2>Second Page</h2>
<label>Name: {{ name }}</label><br>
<label>Roll: {{ roll }}</label><br>
<label>Subject: {{ subject }}</label><br><br>
<a href="{ % url 'q2_first_page' % }"><button>Go Back to First Page</button></a>
</body>
</html>

```

Forms.py:

```

from django import forms

class StudentForm(forms.Form):
    SUBJECT_CHOICES = [
        ('', 'Choose...'),
        ('Math', 'Math'),
        ('Science', 'Science'),
        ('English', 'English'),
        ('History', 'History'),
        ('Computer Science', 'Computer Science'),
    ]
    name = forms.CharField(
        max_length=100,
        widget=forms.TextInput(attrs={
            'class': 'form-control',
            'placeholder': 'Enter your name'
        })
    )
    roll = forms.CharField(
        max_length=50,
        widget=forms.TextInput(attrs={
            'class': 'form-control',
            'placeholder': 'Enter your roll number'
        })
    )
    subject = forms.ChoiceField(
        choices=SUBJECT_CHOICES,
        widget=forms.Select(attrs={'class': 'form-control'})
    )

```

Urls.py:

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

urlpatterns = [
    path("", views.first_page, name='q2_first_page'),
    path('second/', views.second_page, name='q2_second_page'),
    path('reset/', views.reset_session, name='q2_reset'),
]
```

Views.py:

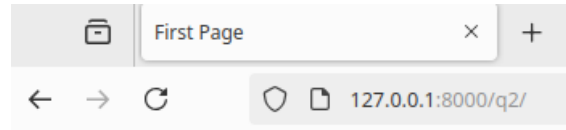
```
from django.shortcuts import render, redirect
from .forms import StudentForm

def first_page(request):
    if request.method == 'POST':
        form = StudentForm(request.POST)
        if form.is_valid():
            request.session['name'] = form.cleaned_data['name']
            request.session['roll'] = form.cleaned_data['roll']
            request.session['subject'] = form.cleaned_data['subject']
            return redirect('q2_second_page')
        else:
            form = StudentForm()
            return render(request, 'q2/firstPage.html', {'form': form})

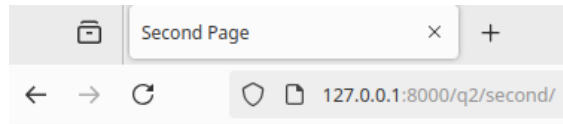
def second_page(request):
    name = request.session.get('name', "")
    roll = request.session.get('roll', "")
    subject = request.session.get('subject', "")
    return render(request, 'q2/secondPage.html', {
        'name': name,
        'roll': roll,
        'subject': subject
    })

def reset_session(request):
    request.session.flush()
    return redirect('q2_first_page')
```

Screenshots:



First Page



Second Page

Name: Hiten

Roll: 23

Subject: Computer Science

[Go Back to First Page](#)

Name:

Roll:

Subject:

[Go to Second Page](#)