LAB-7 Form Processing using Django – Part I

-PRATHIT KAPIL -220905378 -CSE_D//45

Q1// Develop a web application using Django framework to demonstrate the transfer of multiple parameters between web pages. User should be presented with a dropdown list containing car manufacturers, a text box which takes model name of the manufacturer and a submit button. On submitting the web page, the user is forwarded to a new page. This new page should display the selected car manufacturer name and the model name.

```
A1//
views.py:
from django.shortcuts import render
from .forms import CarForm
def car_form(request):
  if request.method == 'POST':
    form = CarForm(request.POST)
    if form.is_valid():
       manufacturer = form.cleaned_data['manufacturer']
       model name = form.cleaned data['model name']
       return render(request, 'carinfo/car_result.html', {
         'manufacturer': manufacturer,
         'model name': model name,
       })
  else:
    form = CarForm()
  return render(request, 'carinfo/car_form.html', {'form': form})
carinfo/urls.py:
from django.urls import path
from . import views
urlpatterns = [
  path(", views.car_form, name='car_form'),
1
```

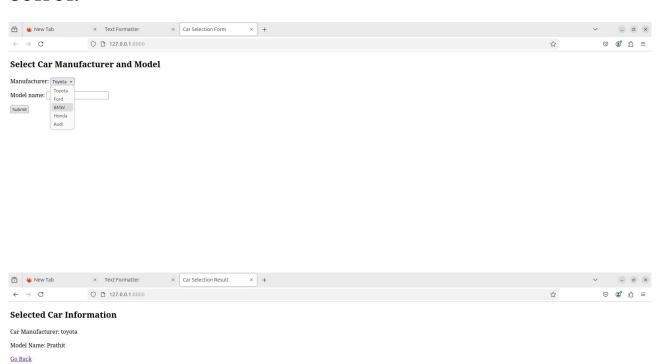
```
carproject/urls.py:
```

<head>

```
from django.contrib import admin
from django.urls import path, include
urlpatterns = [
  path('admin/', admin.site.urls),
  path(", include('carinfo.urls')), # Link to carinfo app's URLs
1
forms.py:
from django import forms
class CarForm(forms.Form):
  CAR_MANUFACTURERS = [
    ('toyota', 'Toyota'),
    ('ford', 'Ford'),
    ('bmw', 'BMW'),
    ('honda', 'Honda'),
    ('audi', 'Audi'),
  1
  manufacturer = forms.ChoiceField(choices=CAR_MANUFACTURERS)
  model_name = forms.CharField(max_length=100)
car_form.html:
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Car Selection Form</title>
</head>
<body>
  <h2>Select Car Manufacturer and Model</h2>
  <form method="post">
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit">Submit
  </form>
</body>
</html>
car_result.html:
<!DOCTYPE html>
<html lang="en">
```

```
<meta charset="UTF-8">
  <title>Car Selection Result</title>
</head>
<body>
  <h2>Selected Car Information</h2>
  Car Manufacturer: {{ manufacturer }}
  Model Name: {{ model_name }}
  <a href="{% url 'car_form' %}">Go Back</a>
</body>
</html>
```

OUTPUT:



Q2// Create a page firstPage.html with two TextBoxes [Name, Roll], DropDownList [Subjects], and a button. Create another page secondPage.html with a label and a button. When the user clicks the button in first Page, he should be sent to the second page and display the contents passed from first page in the label. The button in second page should navigate the user back to firstPage. Use Django sessions to transfer information.

A2//

views.py:

```
from django.shortcuts import render, redirect
from django.http import HttpResponse
from django.contrib.sessions.models import Session
def first_page(request):
  if request.method == 'POST':
     # Get the values from the form
     name = request.POST.get('name')
     roll = request.POST.get('roll')
     subject = request.POST.get('subject')
     request.session['name'] = name
     request.session['roll'] = roll
     request.session['subject'] = subject
     return redirect('second_page')
  return render(request, 'userinfo/firstPage.html')
def second_page(request):
  name = request.session.get('name')
  roll = request.session.get('roll')
  subject = request.session.get('subject')
  if name and roll and subject:
     return render(request, 'userinfo/secondPage.html', {
       'name': name,
       'roll': roll,
       'subject': subject
     })
  else:
     return HttpResponse("No data available from session.")
```

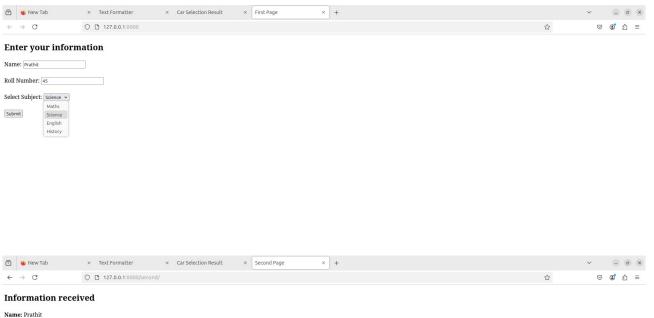
sessionproject/urls.py:

```
from django.contrib import admin
from django.urls import path, include
urlpatterns = [
  path('admin/', admin.site.urls),
  path(", include('userinfo.urls')), # Link to userinfo app's URLs
]
userinfo/urls.py:
from django.urls import path
from . import views
urlpatterns = [
  path(", views.first_page, name='first_page'),
  path('second/', views.second_page, name='second_page'),
1
forms.py:
from django import forms
class UserDetailsForm(forms.Form):
  name = forms.CharField(label='Name', max_length=100)
  roll = forms.CharField(label='Roll', max length=100)
  subject = forms.ChoiceField(label='Subject', choices=[
    ('Math', 'Math'),
    ('Science', 'Science'),
    ('English', 'English'),
    ('History', 'History'),
    ('Geography', 'Geography'),
  ])
firstPage.html:
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>First Page</title>
</head>
<body>
  <h2>Enter your information</h2>
  <form method="POST">
     {% csrf_token %}
     <label for="name">Name:</label>
     <input type="text" name="name" id="name" required><br><br>
     <label for="roll">Roll Number:</label>
```

secondPage.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Second Page</title>
</head>
<body>
  <h2>Information received</h2>
  <strong>Name:</strong> {{ name }}
  <strong>Roll Number:</strong> {{ roll }}
  <strong>Subject:</strong> {{ subject }}
  <form action="{% url 'first_page' %}">
    <button type="submit">Go Back to First Page</button>
  </form>
</body>
</html>
```

OUTPUT:



Roll Number: 45

Subject: Science

Go Back to First Page