## Lab 08 - Arhaan Girdhar

Web Programming Lab

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.

# Forms.py from django import forms class CarForm(forms.Form): manufacturer = forms.ChoiceField( choices=[ ('Toyota', 'Toyota'), ('Honda', 'Honda'), ('Ford', 'Ford'), ('BMW', 'BMW'), ('Audi', 'Audi') label="Car Manufacturer", widget=forms.Select(attrs={'class': 'form-select'}) model = forms.CharField( max length=100, label="Model Name", widget=forms.TextInput(attrs={'class': 'form-control'}) Views.py from django.shortcuts import render from .forms import CarForm def index(request): form = CarForm(request.POST or None) if request.method == 'POST' and form.is valid(): manufacturer = form.cleaned data['manufacturer'] model = form.cleaned\_data['model'] context = {'manufacturer': manufacturer, 'model': model} return render(request, 'car\_app/result.html', context) return render(request, 'car\_app/index.html', {'form': form}) Urls.py from django.contrib import admin from django.urls import path, include urlpatterns = [ path('admin/', admin.site.urls), path(", include('car app.urls')), Apps.py from django.apps import AppConfig class CarAppConfig(AppConfig):

default auto field = 'django.db.models.BigAutoField'

name = 'car app'

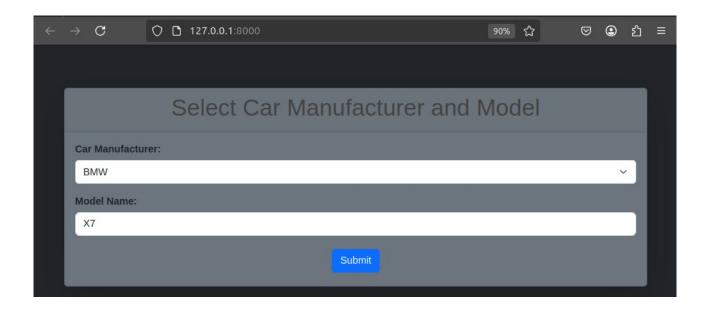
#### Index.html

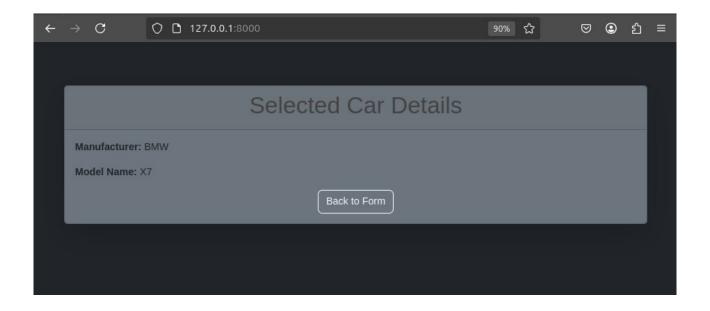
```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Car Selection</title>
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 </l></l></l></l></l></l
 k rel="stylesheet" href="/static/css/style.css">
</head>
<body class="bg-dark text-light">
 <div class="container py-5">
  <div class="card bg-secondary mb-3 shadow-lg">
   <div class="card-header text-center">
    <h1>Select Car Manufacturer and Model</h1>
   </div>
   <div class="card-body">
    <form method="post">
     {% csrf token %}
     <div class="mb-3">
      {{ form.manufacturer.label_tag }}
      {{ form.manufacturer }}
     </div>
     <div class="mb-3">
      {{ form.model.label_tag }}
      {{ form.model }}
     </div>
     <div class="text-center">
      <button type="submit" class="btn btn-primary">Submit
     </div>
    </form>
   </div>
  </div>
 </div>
 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

## Result.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Car Details</title>
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
 k rel="stylesheet" href="/static/css/style.css">
</head>
<body class="bg-dark text-light">
 <div class="container py-5">
  <div class="card bg-secondary mb-3 shadow-lg">
   <div class="card-header text-center">
    <h1>Selected Car Details</h1>
   </div>
   <div class="card-body">
    <strong>Manufacturer:</strong> {{ manufacturer }}
    <strong>Model Name:</strong> {{ model }}
    <div class="text-center">
      <a href="/" class="btn btn-outline-light">Back to Form</a>
    </div>
   </div>
  </div>
 </div>
 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script>
</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.

### Forms.py

```
from django import forms
class StudentForm(forms.Form):
  model = forms.CharField(
     max length=100,
     label="Name",
     widget=forms.TextInput(attrs={'class': 'form-control'})
  model = forms.IntField(
     max_length=100,
     label="Roll No",
     widget=forms.TextInput(attrs={'class': 'form-control'})
                                                       Views.py
from django.shortcuts import render, redirect
def first_page(request):
  if request.method == 'POST':
     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, 'session_app/firstPage.html')
def second page(request):
  name = request.session.get('name', 'N/A')
  roll = request.session.get('roll', 'N/A')
  subject = request.session.get('subject', 'N/A')
  context = {
     'name': name.
     'roll': roll,
     'subject': subject,
  return render(request, 'session_app/secondPage.html', context)
                                                        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'),
]
```

#### Apps.py

```
from django.apps import AppConfig
```

```
class SessionAppConfig(AppConfig):
    default_auto_field = 'django.db.models.BigAutoField'
    name = 'session_app'
```

#### Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>First Page</title>
    k rel="stylesheet" href="/static/css/style.css">
</head>
<body>
    <h1>Enter Your Details</h1>
    <form method="post">
        {% csrf_token %}
         <a href="right"><a href="right
         <input type="text" id="name" name="name" required>
         <br><br><br>><br>></pr>
         <label for="roll">Roll:</label>
         <input type="text" id="roll" name="roll" required>
         <br><br>>
         <label for="subject">Subject:</label>
          <select id="subject" name="subject">
             <option value="Maths">Maths
             <option value="Physics">Physics
             <option value="Chemistry">Chemistry</option>
             <option value="Biology">Biology</option>
         </select>
         <br><br>>
         <button type="submit">Submit</button>
    </form>
</body>
</html>
```

#### Result.html

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Second Page</title>
 k rel="stylesheet" href="/static/css/style.css">
</head>
<body>
 <h1>Received Information</h1>
 -
<strong>Name:</strong> {{ name }}<br>>
  <strong>Roll:</strong> {{ roll }}<br>
  <strong>Subject:</strong> {{ subject }}
 <form action="{% url 'first page' %}" method="get">
  <button type="submit">Back to First Page</button>
 </form>
</body>
</html>
```

# **Output**



