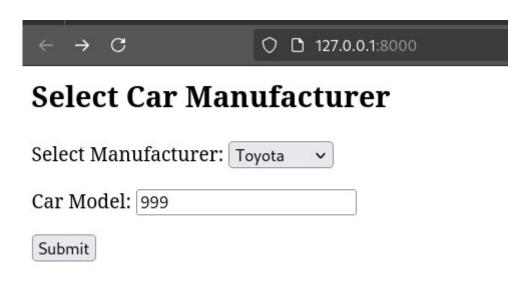
#### WEB PROGRAMMING LAB

#### LAB7 – DJANGO FORMS PART 1

ADITYA AGARWAL 220905106 ROLL NO. 14

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.





# Car Details

Manufacturer: toyota

Model: 999

```
carproject/settings.py
INSTALLED_APPS = [
#Other apps
'carapp',
carapp/forms.py
# carapp/forms.py
from django import forms
CAR_MANUFACTURERS = [
  ('toyota', 'Toyota'),
  ('ford', 'Ford'),
  ('honda', 'Honda'),
  ('chevrolet', 'Chevrolet'),
1
class CarForm(forms.Form):
  manufacturer = forms.ChoiceField(choices=CAR_MANUFACTURERS, label="Select
Manufacturer")
  model = forms.CharField(max_length=100, label="Car Model")
carapp/views.py
# carapp/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 = form.cleaned data['model']
      return render(request, 'carapp/result.html', {'manufacturer': manufacturer, 'model':
model})
  else:
    form = CarForm()
  return render(request, 'carapp/car_form.html', {'form': form})
```

## carapp/templates/carapp/car\_form.html

## carapp/templates/carapp/result.html

## carapp/urls.py

```
# carapp/urls.py
from django.urls import path
from . import views

urlpatterns = [
   path('', views.car_form, name='car_form'),
]
```

#### **RUNNING THE SERVER**

python manage.py runserver

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.

← → C	O 🗅 127.0.0.1:8000/firstPage/
First Page	
Name: aditya	
Roll Number: 14	
Subject: Math 🗸	
Submit	



# **Second Page**

Name: aditya

Roll Number: 14

Subject: Math

Go Back to First Page

## DjangoSessionProject/settings.py

```
INSTALLED_APPS = [
  # other apps
  'sessionApp',
1
DjangoSessionProject/urls.py
from django.contrib import admin
from django.urls import path
from sessionApp import views
urlpatterns = [
  path('admin/', admin.site.urls),
  path('firstPage/', views.first_page, name='firstPage'),
  path('secondPage/', views.second_page, name='secondPage'),
]
sessionApp/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':
    name = request.POST.get('name')
    roll = request.POST.get('roll')
    subject = request.POST.get('subject')
    # Save data to session
    request.session['name'] = name
    request.session['roll'] = roll
    request.session['subject'] = subject
    return redirect('secondPage') # Redirect to secondPage
  subjects = ['Math', 'Science', 'English', 'History'] # Drop-down list
  return render(request, 'firstPage.html', {'subjects': subjects})
def second_page(request):
  # Retrieve data from session
```

name = request.session.get('name', 'Guest')
roll = request.session.get('roll', 'Not Provided')

return render(request, 'secondPage.html', {

subject = request.session.get('subject', 'Not Selected')

```
'name': name,
 'roll': roll,
 'subject': subject,
})
```

## sessionApp/templates/firstPage.html

```
<!DOCTYPE html>
<html>
<body>
  <h2>First Page</h2>
  <form method="POST">
    {% csrf_token %}
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required><br><br>
    <label for="roll">Roll Number:</label>
    <input type="text" id="roll" name="roll" required><br><br>>
    <label for="subject">Subject:</label>
    <select id="subject" name="subject">
      {% for subject in subjects %}
        <option value="{{ subject }}">{{ subject }}</option>
      {% endfor %}
    </select><br><br>
    <button type="submit">Submit</button>
  </form>
</body>
</html>
```

## sessionApp/templates/secondPage.html

## MIGRATE THE DATABASE

python manage.py migrate

**RUN THE SERVER** 

python manage.py runserver

REDIRECT TO THIS URL

http://127.0.0.1:8000/firstPage/