Class Assignment Lab 8

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Q1 CODE

Settings.py

```
Django settings for car_project project.
Generated by 'django-admin startproject' using Django 5.1.6.
For more information on this file, see
https://docs.djangoproject.com/en/5.1/topics/settings/
For the full list of settings and their values, see
https://docs.djangoproject.com/en/5.1/ref/settings/
import os
from pathlib import Path
# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent
# Quick-start development settings - unsuitable for production
# See <a href="https://docs.djangoproject.com/en/5.1/howto/deployment/checklist/">https://docs.djangoproject.com/en/5.1/howto/deployment/checklist/</a>
# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 'django-insecure-ljfqub9=7a#h#u+xi0+gray8$2r-)5(3_gjiv$!vivc5w_!&4+'
# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True
ALLOWED_HOSTS = []
```

```
# Application definition
INSTALLED_APPS = [
'django.contrib.admin',
'django.contrib.auth',
'django.contrib.contenttypes',
'django.contrib.sessions',
'django.contrib.messages',
'django.contrib.staticfiles',
MIDDLEWARE = [
'django.middleware.security.SecurityMiddleware',
'django.contrib.sessions.middleware.SessionMiddleware',
'django.middleware.common.CommonMiddleware',
'django.middleware.csrf.CsrfViewMiddleware',
'django.contrib.auth.middleware.AuthenticationMiddleware',
'django.contrib.messages.middleware.MessageMiddleware',
'django.middleware.clickjacking.XFrameOptionsMiddleware',
ROOT_URLCONF = 'car_project.urls'
TEMPLATES = [
'BACKEND': 'django.template.backends.django.DjangoTemplates',
'DIRS': [],
'APP_DIRS': True,
'OPTIONS': {
'context_processors': [
'django.template.context_processors.debug',
'django.template.context_processors.request',
'django.contrib.auth.context_processors.auth',
'django.contrib.messages.context_processors.messages',
WSGI_APPLICATION = 'car_project.wsgi.application'
```

```
# Database
# https://docs.djangoproject.com/en/5.1/ref/settings/#databases
DATABASES = {
'default': {
'ENGINE': 'django.db.backends.sqlite3',
'NAME': BASE_DIR / 'db.sqlite3',
# Password validation
# <a href="https://docs.djangoproject.com/en/5.1/ref/settings/#auth-password-validators">https://docs.djangoproject.com/en/5.1/ref/settings/#auth-password-validators</a>
AUTH_PASSWORD_VALIDATORS = [
'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
# Internationalization
# <a href="https://docs.djangoproject.com/en/5.1/topics/i18n/">https://docs.djangoproject.com/en/5.1/topics/i18n/</a>
LANGUAGE_CODE = 'en-us'
TIME_ZONE = 'UTC'
USE_I18N = True
USE_TZ = True
```

```
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/5.1/howto/static-files/

STATIC_URL = 'static/'

# Default primary key field type
# https://docs.djangoproject.com/en/5.1/ref/settings/#default-auto-field

DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'

MEDIA_URL = '/media/'
MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
```

Urls.py

```
from django.contrib import admin
from django.conf import settings
from django.conf.urls.static import static

urlpatterns = [
path('admin/', admin.site.urls),
path(", include('cars.urls')),
]

if settings.DEBUG:
urlpatterns += static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
```

Views.py

```
from django.shortcuts import render

def car_form(request):
manufacturers = {
    'Toyota': 'toyota.png',
    'Honda': 'honda.png',
    'Ford': 'ford.png',
    'BMW': 'bmw.png',
    'Mercedes': 'mercedes.png'
}
```

```
if request.method == 'POST':
    manufacturer = request.POST.get('manufacturer')
model = request.POST.get('model')
image = manufacturers.get(manufacturer, '')
return render(request, 'result.html', {'manufacturer': manufacturer, 'model': model, 'image': image})
return render(request, 'car_form.html', {'manufacturers': manufacturers})
```

Urls.py

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

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

Car_form.html

```
<!DOCTYPE html>
<title>Car Selection</title>
body {
font-family: Arial, sans-serif;
background-color: #222;
text-align: center;
padding: 50px;
color: white;
form {
background: #333;
padding: 20px;
border-radius: 8px;
border: 2px solid red;
box-shadow: 0 0 10px rgba(255, 0, 0, 0.5);
display: inline-block;
select, input[type="text"], input[type="submit"] {
```

```
padding: 8px;
margin: 10px;
border-radius: 4px;
border: 1px solid #ccc;
background: #444;
color: white;
input[type="submit"] {
background-color: #e60000;
color: white;
border: none;
cursor: pointer;
input[type="submit"]:hover {
background-color: #cc0000;
</style>
</head>
<h2>Select a Car Manufacturer and Model</h2>
<form method="post">
{% csrf_token %}
<label for="manufacturer">Manufacturer:</label>
<select name="manufacturer" required>
{% for manufacturer, image in manufacturers.items %}
<option value="{{ manufacturer }}">{{ manufacturer }}</option>
{% endfor %}
<label for="model">Model Name:</label>
<input type="text" name="model" required>
<input type="submit" value="Submit">
</body>
```

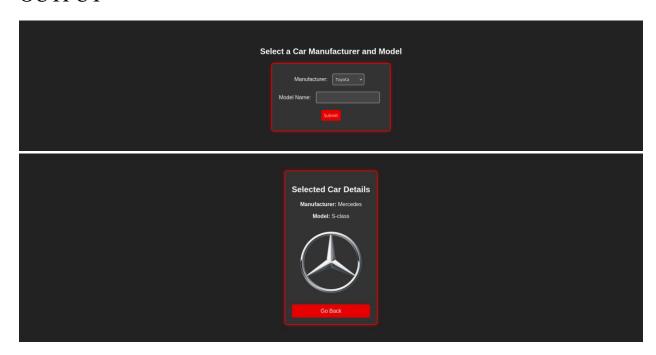
Result.html

```
<!DOCTYPE html>
<html>
<head>
<title>Car Details</title>
```

```
body {
font-family: Arial, sans-serif;
background-color: #222;
text-align: center;
padding: 50px;
color: white;
.result-container {
background: #333;
padding: 20px;
border-radius: 8px;
border: 2px solid red;
box-shadow: 0 0 10px rgba(255, 0, 0, 0.5);
display: inline-block;
a {
display: block;
margin-top: 20px;
text-decoration: none;
color: white;
background-color: #e60000;
padding: 10px;
border-radius: 4px;
a:hover {
background-color: #cc0000;
img {
width: 200px;
height: auto;
margin-top: 10px;
<div class="result-container">
<h2>Selected Car Details</h2>
<strong>Manufacturer:</strong> {{ manufacturer }}
<strong>Model:</strong> {{ model }}
{% if image %}
<img src="/media/{{ image }}" alt="{{ manufacturer }} Logo">
{% endif %}
<a href="/">Go Back</a>
```

```
</div>
</body>
</html>
```

OUTPUT



Q2 CODE

Urls.py

```
from django.urls import path
from .views import first_page, second_page

urlpatterns = [
path('', first_page, name='first_page'),
path('second/', second_page, name='second_page'),
]
```

Urls.py

```
from django.contrib import admin
from django.urls import include, path
urlpatterns = [
```

```
path('admin/', admin.site.urls),
path('', include('students.urls')),
]
```

Views.py

```
def first_page(request):
    subjects = ['Math', 'Science', 'History', 'English', 'Computer Science']
    if request.method == 'POST':
        request.session['name'] = request.POST.get('name')
        request.session['roll'] = request.POST.get('roll')
        request.session['subject'] = request.POST.get('subject')
        return redirect('second_page')

return render(request, 'students/firstpage.html', {'subjects': subjects})

def second_page(request):
    name = request.session.get('name', 'Unknown')
    roll = request.session.get('roll', 'Unknown')
    subject = request.session.get('subject', 'Unknown')
    return render(request, 'students/secondpage.html', {'name': name, 'roll': roll, 'subject': subject})
```

Firstpage.html

```
<!DOCTYPE html>
<html>
<head>
<title>Student Form</title>
<style>
body {
font-family: Arial, sans-serif;
background-color: #222;
text-align: center;
padding: 50px;
color: white;
}
form {
background: #333;
```

```
padding: 20px;
border-radius: 8px;
border: 2px solid red;
box-shadow: 0 0 10px rgba(255, 0, 0, 0.5);
display: inline-block;
select, input[type="text"], input[type="submit"] {
padding: 10px;
margin: 10px;
border-radius: 5px;
border: 1px solid #ccc;
background: #444;
color: white;
input[type="submit"] {
background-color: #e60000;
color: white;
border: none;
cursor: pointer;
input[type="submit"]:hover {
background-color: #cc0000;
<h2>Enter Your Details</h2>
<form method="post">
{% csrf_token %}
<label for="name">Name:</label>
<input type="text" name="name" required>
<label for="roll">Roll Number:</label>
<input type="text" name="roll" required>
<label for="subject">Subject:</label>
<select name="subject" required>
{% for subject in subjects %}
<option value="{{ subject }}">{{ subject }}</option>
{% endfor %}
<input type="submit" value="Submit">
```

```
</body>
</html>
```

Secondpage.html

```
<!DOCTYPE html>
<title>Submitted Details</title>
body {
font-family: Arial, sans-serif;
background-color: #222;
text-align: center;
padding: 50px;
color: white;
.result-container {
background: #333;
padding: 20px;
border-radius: 8px;
border: 2px solid red;
box-shadow: 0 0 10px rgba(255, 0, 0, 0.5);
display: inline-block;
a {
display: block;
margin-top: 20px;
text-decoration: none;
color: white;
background-color: #e60000;
padding: 10px;
border-radius: 4px;
a:hover {
background-color: #cc0000;
</style>
<div class="result-container">
<h2>Submitted Details</h2>
```

```
<strong>Name:</strong> {{ name }}
<strong>Roll Number:</strong> {{ roll }}
<strong>Subject:</strong> {{ subject }}
<a href="/">Go Back</a>
</div>
</body>
</html>
```

OUTPUT

