COMP 8347

Internet Applications and Distributed Systems

Lab 6

Submitted to:

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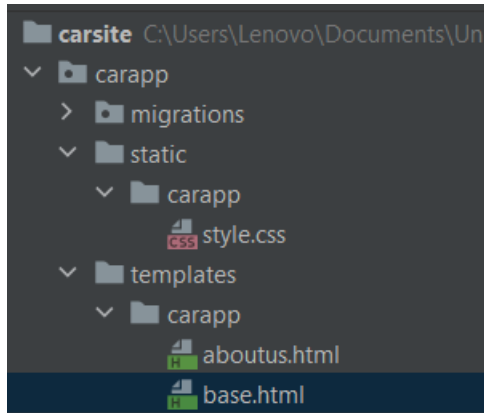Vidya Sehgal (110090510)

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Table of Contents

Part 1 Base Template and CSS:

A – Create static folder and add style.css file to it:

```
carsite  C:\Users\Lenovo\Documents\Uni
∨ carapp
   > migrations
   ∨ static
      ∨ carapp
           style.css
   ∨ templates
      ∨ carapp
           aboutus.html
           base.html
```

```css
1    body {
2        background-color: #f0f0f0;
3        color: #333;
4    }
5
6    h1 {
7        font-size: 24px;
8        font-weight: bold;
9        color: #000;
10       margin-top: 0;
11   }
12
13   .hbar1 {
14       display: inline;
15       margin: 15px;
16   }
```

B - Also create base.html in templates:

```html
<!DOCTYPE html>
{% load static %}
<html>
<head>
  <link rel="stylesheet" type="text/css" href="{% static 'carapp/style.css' %}">
  <title>CarSite - {% block title %} Welcome! {% endblock %}</title>
</head>
<body>
<div>
  <h1>{% block myhdg %} Welcome to our online car store {% endblock %}</h1>
  {% block body_block %}*** {% endblock %}
</div>
<hr />
<div>
  <ul>
    <li class="hbar1"><a href="http://127.0.0.1:8000/aboutus/"> Find out
about this site </a></li>
    <li class="hbar1"><a href = "{% url 'carapp:home'%}"> Click here to
return to the home page </a><br/></li>
  </ul>
</div>
</body>
</html>
```

C – Update homepage, aboutus, cardetail with base.html:

```html
{% extends 'carapp/base.html' %}
{% block body_block %}
    <h1>Car Type Details</h1>
    <p>Following are the Vehicles in {{ car_type.name }} with Cartype No {{ car_ty
    <ul>
        {% for vehicle in vehicle_list %}
            <li>{{ vehicle.car_name }}</li>
        {% empty %}
            <li>No vehicles found.</li>
        {% endfor %}
    </ul>
{% endblock %}
```

```
{% extends 'carapp/base.html' %}
{% block body_block %}
    <h1>About Us</h1>
    <p>This is a Car Showroom</p>
{% endblock %}
```

```
{% extends 'carapp/base.html' %}
{% block body_block %}
    {% if cartype_list %}
        <h2> Type of Cars </h2>
        <ol>
        {% for cartype in cartype_list %}
            <li><p><a href="{% url 'cardetail' cartype.id %}">{{ cartype.name }}</a></p></li>
        {% endfor %}
        </ol>
        {% else %}
        <strong> None of the car types is available! </strong>
        {% endif %}
{% endblock %}
```
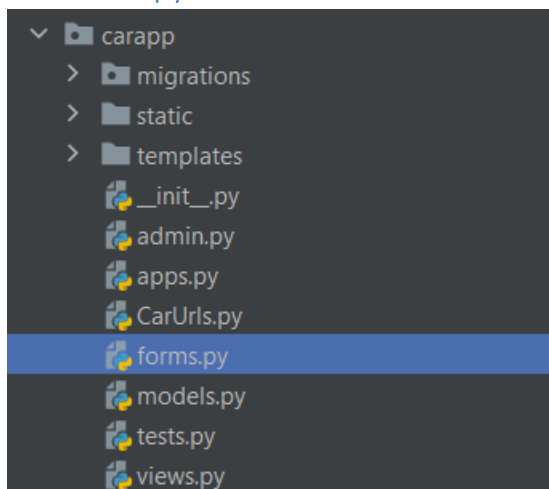
Part 2:

A – Update Vehicle model and add features field:

```python
# New field for car features
CRUISE_CONTROL = 'CC'
AUDIO_INTERFACE = 'AI'
AIRBAGS = 'AB'
AIR_CONDITIONING = 'AC'
SEAT_HEATING = 'SH'
PARK_ASSIST = 'PA'
POWER_STEERING = 'PS'
REVERSING_CAMERA = 'RC'
AUTO_START_STOP = 'AS'

FEATURE_CHOICES = (
    (CRUISE_CONTROL, 'Cruise Control'),
    (AUDIO_INTERFACE, 'Audio Interface'),
    (AIRBAGS, 'Airbags'),
    (AIR_CONDITIONING, 'Air Conditioning'),
    (SEAT_HEATING, 'Seat Heating'),
    (PARK_ASSIST, 'Park Assist'),
    (POWER_STEERING, 'Power Steering'),
    (REVERSING_CAMERA, 'Reversing Camera'),
    (AUTO_START_STOP, 'Auto Start/Stop'),
)

features = models.CharField(max_length=2, choices=FEATURE_CHOICES, blank=True)
```

B – Forms.py:

```
v  carapp
   >  migrations
   >  static
   >  templates
      __init__.py
      admin.py
      apps.py
      CarUrls.py
      forms.py
      models.py
      tests.py
      views.py
```

Forms.py:

```python
from django import forms
from carapp.models import OrderVehicle


class OrderVehicleForm(forms.ModelForm):
    class Meta:
        model = OrderVehicle
        fields = ['vehicle', 'buyer', 'vehicles_ordered']
        labels = {
            'vehicle': 'Vehicle',
            'buyer': 'Buyer',
            'vehicles_ordered': 'Number of Vehicles Ordered'
        }
        widgets = {
            'buyer': forms.Select(attrs={'class': 'form-control'}),
        }


class ContactForm(forms.Form):
    name = forms.CharField(label='Name', max_length=100, required=True, widget=forms.TextInput(attrs={'class': 'form-control'}))
    email = forms.EmailField(label='Email', required=True, widget=forms.EmailInput(attrs={'class': 'form-control'}))
    subject = forms.CharField(label='Subject', max_length=100, required=True, widget=forms.TextInput(attrs={'class': 'form-control'}))
    message = forms.CharField(label='Message', required=True, widget=forms.Textarea(attrs={'class': 'form-control'}))
```

C – Views for forms:

Views.py:

```python
class Vehicles(View):
    def get(self, request):
        cars = Vehicle.objects.all()
        return render(request, 'carapp/vehicles.html', {'cars': cars})


4 usages
class OrderHere(View):
    def get(self, request):
        return render(request, 'carapp/orderhere.html', {})
```

Vehicles.html:

```
{% extends 'carapp/base.html' %}

{% block body_block %}
  <h1>Vehicles</h1>
  <ul>
    {% for car in cars %}
      <li>{{ car.car_name }} - ${{ car.car_price }}</li>
    {% endfor %}
  </ul>
  <p><a href="{% url 'order' %}">Place a new order</a></p>
{% endblock %}
```

Orders.html

```
{% extends 'carapp/base.html' %}

{% block body_block %}
  <h1>Place your order here</h1>
  <p>You can place your order here.</p>
{% endblock %}
```

CarUrls.py:

```
path('vehicles/', Vehicles, name='vehicles'),
path('order/', OrderHere, name='order')
```

Urls.py:

```
path('vehicles/', Vehicles.as_view(), name='vehicles'),
path('order/', OrderHere.as_view(), name='order'),
```

Base.html:

```
<ul>
    <li class="hbar1"><a href="{% url 'aboutus' %}">Find out
bout this site</a></li>
    <li class="hbar1"><a href = "{% url 'homepage' %}"> Click here to
eturn to the home page </a><br/></li>
    <li class="hbar1"><a href = "{% url 'vehicles' %}"> Vehicles </a><br/></li>
</ul>
```