

University of Windsor

Master of Applied Computing

COMP8347 Internet Applications and Distributed Systems

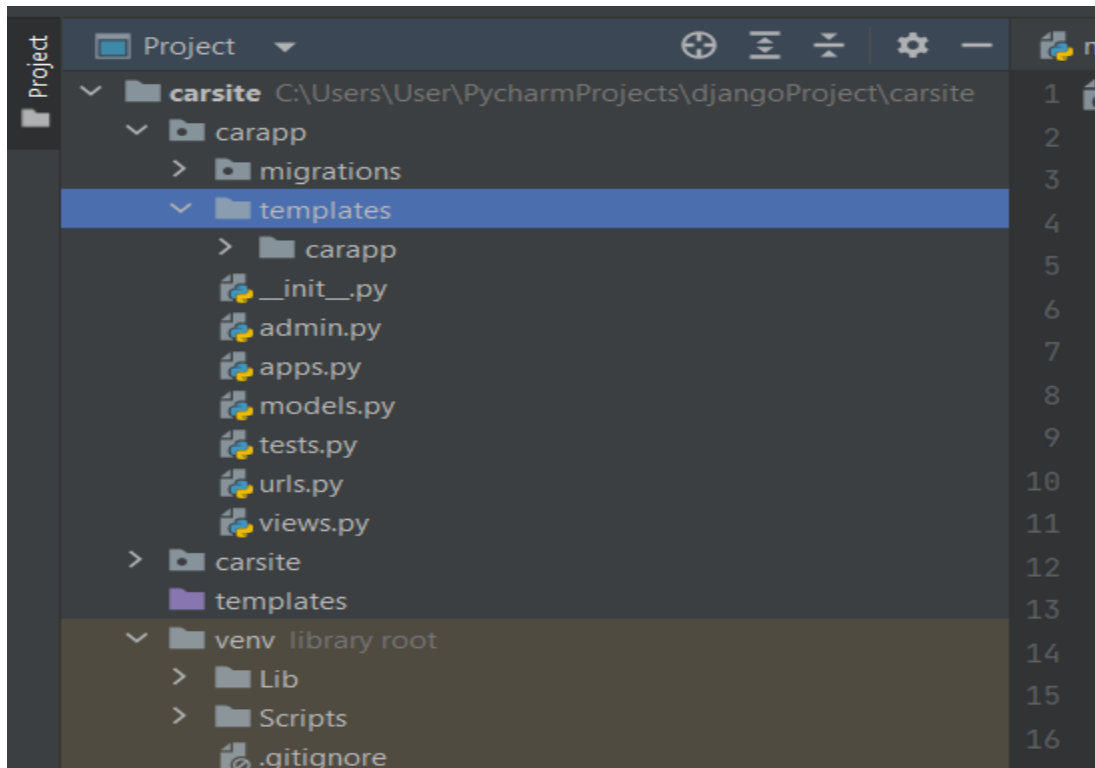
Lab - 6

Group 5

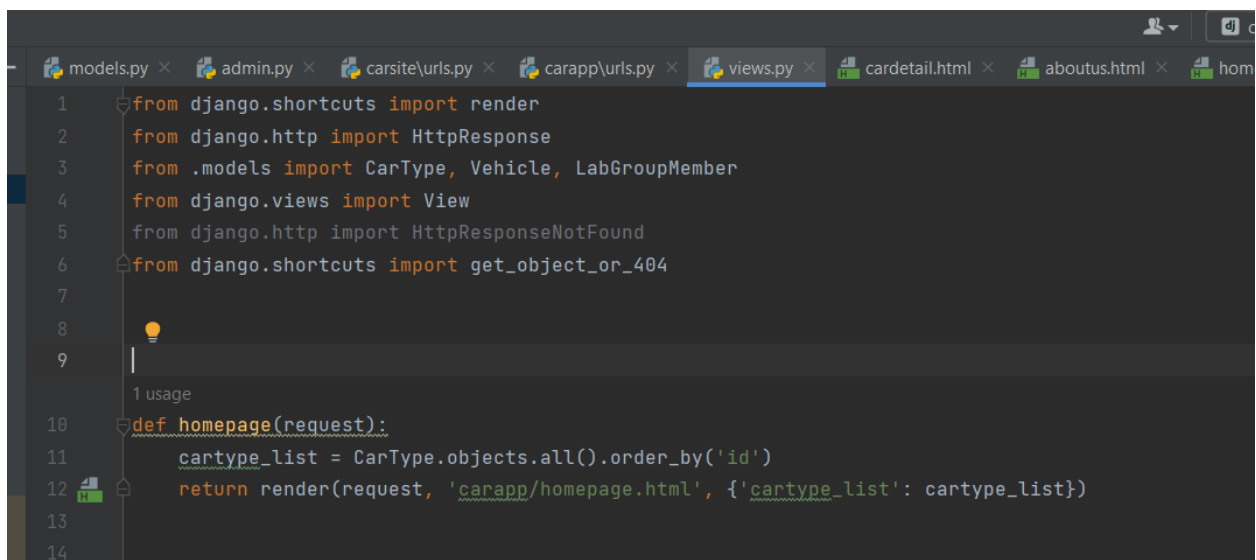
Name: Shivam Sunil Bhosale (110090402)

Part 1

(a) Creating a directory for your templates

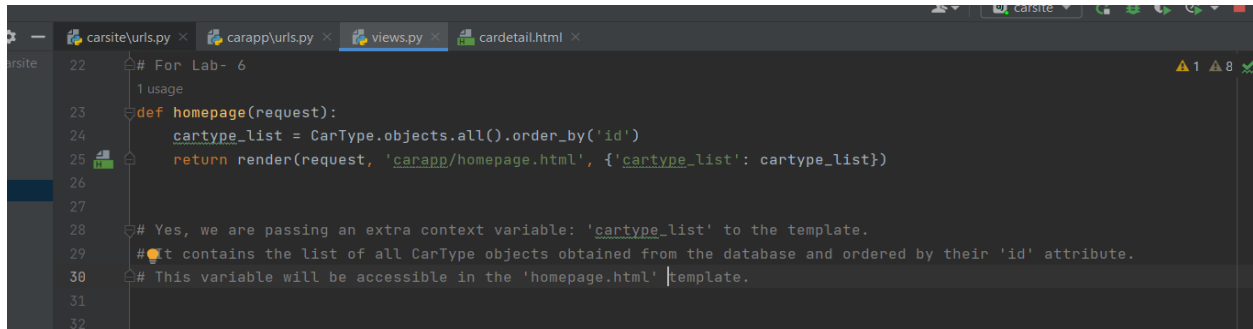


(b) Updating the index view



Are you passing any extra context variables to the template? YES OR NO. If yes, then what are these extra variables? Write your answer as comments in your *views.py* file.

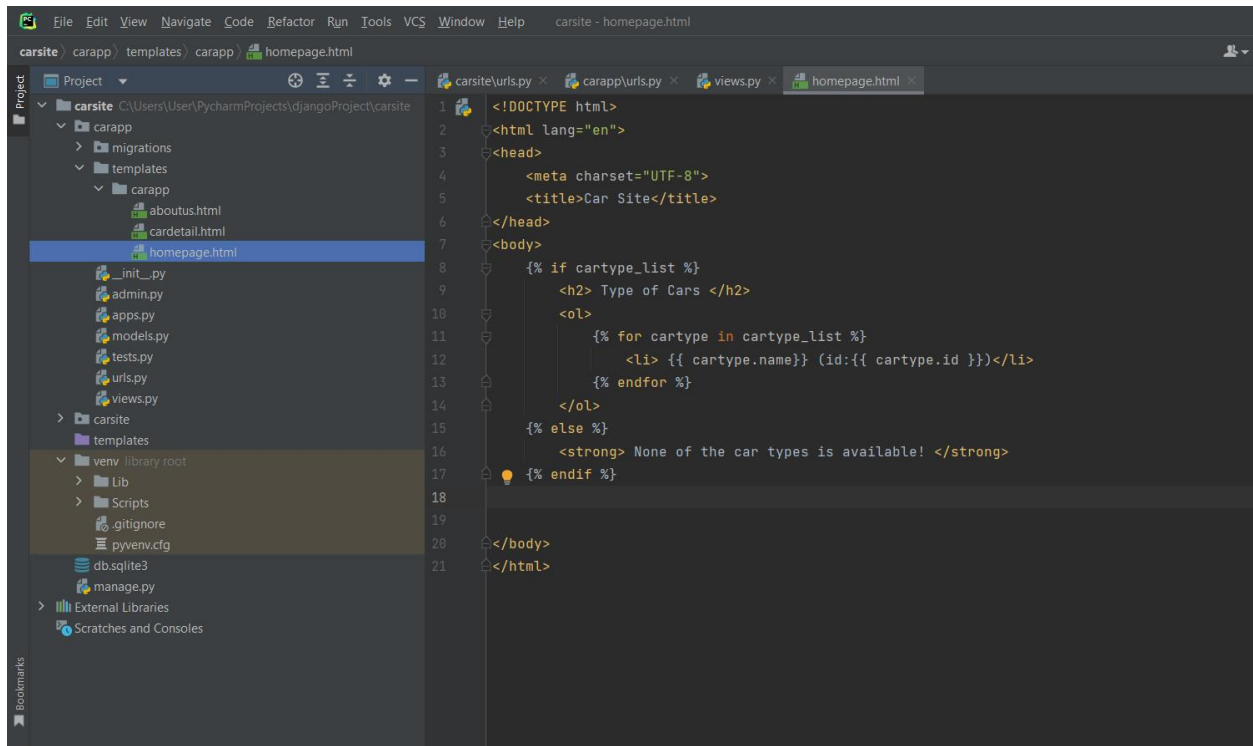
Answer: Yes. Answer as comments in *views.py* file is attached below.



```
22  # For Lab- 6
23  1 usage
24  def homepage(request):
25      cartype_list = CarType.objects.all().order_by('id')
26      return render(request, 'carapp/homepage.html', {'cartype_list': cartype_list})
27
28  # Yes, we are passing an extra context variable: 'cartype_list' to the template.
29  # It contains the list of all CarType objects obtained from the database and ordered by their 'id' attribute.
30  # This variable will be accessible in the 'homepage.html' template.
31
32
```

(c) Create *homepage.html*

Create a new file *homepage.html* in dir *carsite/carapp/templates/carapp*. Edit *homepage.html* as follows



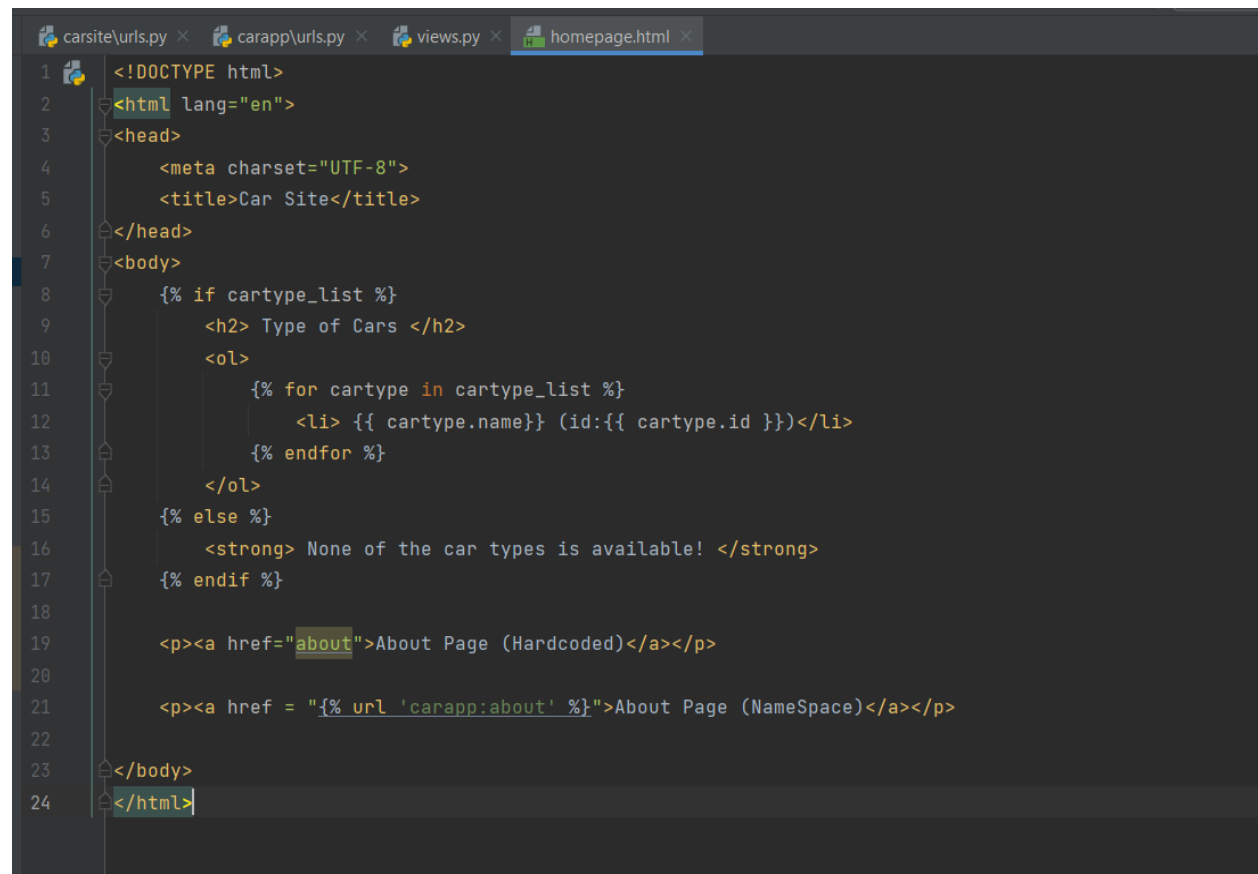
```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Car Site</title>
6  </head>
7  <body>
8      {% if cartype_list %}
9          <h2> Type of Cars </h2>
10         <ol>
11             {% for cartype in cartype_list %}
12                 <li> {{ cartype.name}} (id:{{ cartype.id }})</li>
13             {% endfor %}
14         </ol>
15     {% else %}
16         <strong> None of the car types is available! </strong>
17     {% endif %}
18
19
20 </body>
21 </html>
```

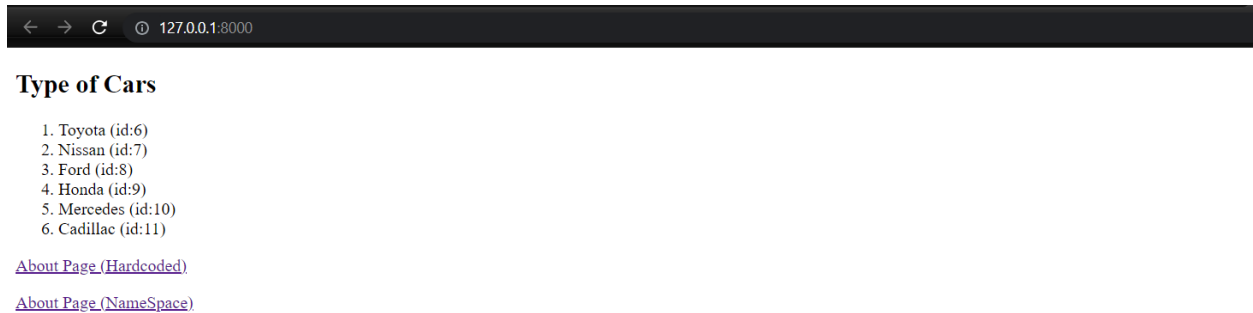
Go to the related URL to view your created template/webpage



At the bottom of the home page, add a link to go to the ‘aboutus’ page by adding the following line: `<p>About Page</p>`

Change the above hardcoded URL to a URL with namespace.





(d) Create aboutus.html

i. Create a new file `aboutus.html` in dir `carsite/carapp/templates/carapp`.

In addition to displaying the text for the about page, it should have a link to go back to our home page. Try using both hardcoded url and url namespacing for this.

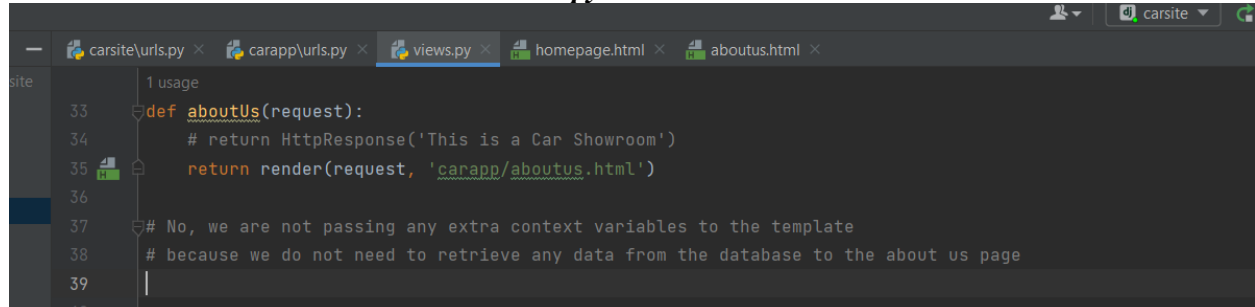
ii. Update the `aboutus` view function in `views.py` so that it uses the `aboutus.html` template.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <title>Title</title>
6 </head>
7 <body>
8   <h1>This is a Car Showroom</h1>
9   <p><a href="/">Home Page (Hardcoded)</a></p>
10  <p><a href = "{% url 'carapp:homepage' %}">Home Page (NameSpace)</a></p>
11 </body>
12 </html>
```

```
30
31
32 1 usage
33 def aboutUs(request):
34     # return HttpResponse('This is a Car Showroom')
35     return render(request, 'carapp/aboutus.html')
36
```

- iii. Do you need to pass any extra context variables to the template? YES OR NO.
iv. If yes, what variable(s) are you passing? Write your answer as comments in your views.py file.

Answer: No. Answer as comments in *views.py* file is attached below.



```
1 usage
33 def aboutUs(request):
34     # return HttpResponse('This is a Car Showroom')
35     return render(request, 'carapp/aboutus.html')
36
37 # No, we are not passing any extra context variables to the template
38 # because we do not need to retrieve any data from the database to the about us page
39 |
```

(e) Create cardetail.html

i. Create a new file cardetail.html in dir carsite/carapp/templates/carapp.

ii. The above html will be rendered if you go to the url: carapp/<cartype_no>

It should display the name for the Car Type with id = cartype_no. It should also display the list of Vehicles for each Car Type. For example, this cardetail page should appear like this for cartype no. 1:

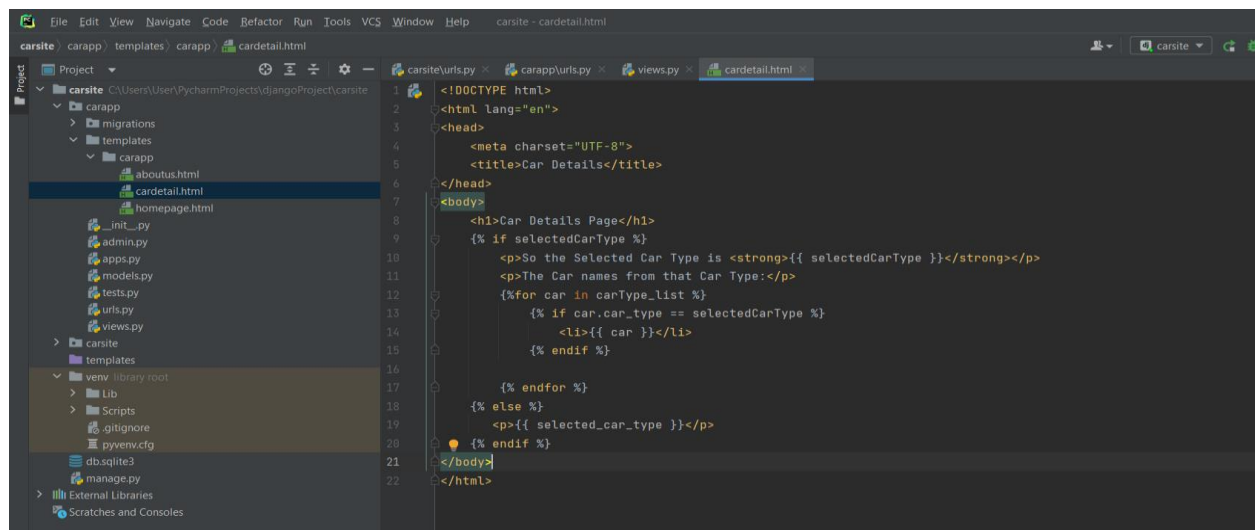
Following are the Vehicles in Toyota with Cartype No 1:

- Corolla
- RAV4

And similarly for rest of the car types.

The cardetail page should also have a link to go back to the home page. Use url namespacing for this as well.

iii. Update the cardetail view function in views.py so that it uses the cardetail.html template.



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <title>Car Details</title>
6 </head>
7 <body>
8     <h1>Car Details Page</h1>
9     {% if selectedCarType %}
10     <p>So the Selected Car Type is <strong>{{ selectedCarType }}</strong></p>
11     <p>The Car names from that Car Type:</p>
12     {% for car in carType_list %}
13         {% if car.car_type == selectedCarType %}
14         <li>{{ car }}</li>
15         {% endif %}
16     {% endfor %}
17     {% else %}
18     <p>{{ selected_car_type }}</p>
19     {% endif %}
20 </body>
21 </html>
```

```

77  # For Lab- 6
78  1 usage
79  def cardetail(request, cartype_no):
80      carType_list = Vehicle.objects.all()
81      cartype_id = int(cartype_no)
82      selectedCarType = ''
83      selected_car_type = get_object_or_404(Vehicle, id=int(cartype_no))
84      hasCarType = False
85      for cartype in carType_list:
86          if cartype.id == cartype_id:
87              selectedCarType = cartype.car_type
88              hasCarType = True
89      if (hasCarType):
90          return render(request, 'carapp/cardetail.html',
91                        {"selectedCarType": selectedCarType, "carType_list": carType_list})
92      else:
93          return render(request, 'carapp/cardetail.html',
94                        {"selected_car_type": selected_car_type})

```



Car Details Page

So the Selected Car Type is **Ford**

The Car names from that Car Type:

- FUSION HYBRID
- Escape SEL
- Explorer XLT
- EcoSport
- Bronco Sport Badlands

iv. Do you need to pass any extra context variables to the template? YES OR NO

v. If yes, what variable(s) are you passing? Write your answer as comments in your views.py file.

Answer: Yes. Answer as comments in *views.py* file is attached below.

```

77  # For Lab- 6
78  1 usage
79  def cardetail(request, cartype_no):
80      carType_list = Vehicle.objects.all().order_by("car_type_id")
81      cartype_id = int(cartype_no)
82      selectedCarType = ''
83      selected_car_type = get_object_or_404(Vehicle, id=int(cartype_no))
84      hasCarType = False
85      for cartype in carType_list:
86          if cartype.id == cartype_id:
87              selectedCarType = cartype.car_type
88              hasCarType = True
89      if (hasCarType):
90          return render(request, 'carapp/cardetail.html',
91                        {"selectedCarType": selectedCarType, "carType_list": carType_list})
92      else:
93          return render(request, 'carapp/cardetail.html',
94                        {"selected_car_type": selected_car_type})
95  # Yes, we are passing an extra context variable: 'selectedCarType','carType_list' to the template.
96  # It contains the selected car type that was typed as a number on the address bar
97  # It also contains the list of all CarType objects obtained from the database and ordered by their 'id' attribute.
98  # These variables will be accessible in the 'cardetail.html' template.

```

(f) Update Homepage Template

Update homepage.html so that you can click on a Car Type Name to go to the cardetail page for that Car Type. Ex. When you click on Toyota, it should show you Corolla, Rav4, etc.

```
urls.py × models.py × views.py × homepage.html × cardetail.html × carname.html × custom_tags.py ×
5 <title>Car Site</title>
6 </head>
7 <body>
8     {% if cartype_list %}
9         <h2> Type of Cars </h2>
10        <ol>
11            {% for cartype in cartype_list %}
12                <li> {{ cartype.name}} (id:{{ cartype.id }})</li>
13            {% endfor %}
14        </ol>
15    {% else %}
16        <strong> None of the car types is available! </strong>
17    {% endif %}
18
19    <p><a href="#about">About Page (Hardcoded)</a></p>
20
21    <p><a href = "{% url 'carapp:about' %}">About Page (NameSpace)</a></p>
22
23    <p><a href = "{% url 'carapp:cardetail' %}">Car Detail Page </a></p>
24
25 </body>
```

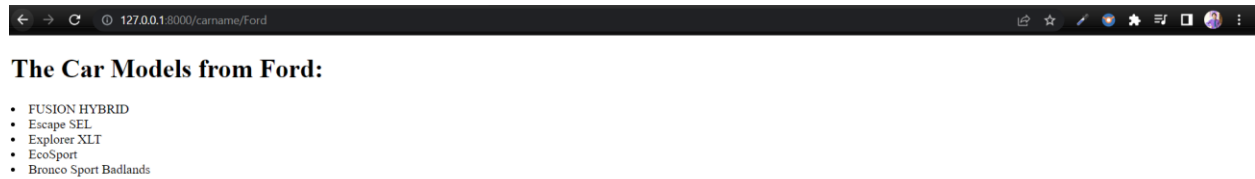
```
urls.py × models.py × views.py × homepage.html × cardetail.html × carname.html ×
<!doctype html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport"
        content="width=device-width, user-scalable=no, initial-scale=1.0, maximum-scale=1.0, minimum-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Car Detail</title>
</head>
<body>

    <h1>Car Detail Page</h1>
    {% for car in carTypeList %}
        <p><a href="/carname/{{ car }}">{{ car }}</a></p>
    {% endfor %}
    {#
        <p><a href="/carname/Toyota">Toyota</a></p>#}
    {#
        <p><a href="/carname/Nissan">Nissan</a></p>#}
    {#
        <p><a href="/carname/Ford">Ford</a></p>#}
    {#
        <p><a href="/carname/Honda">Honda</a></p>#}
    {#
        <p><a href="/carname/Mercedes">Mercedes</a></p>#}
    > body
```



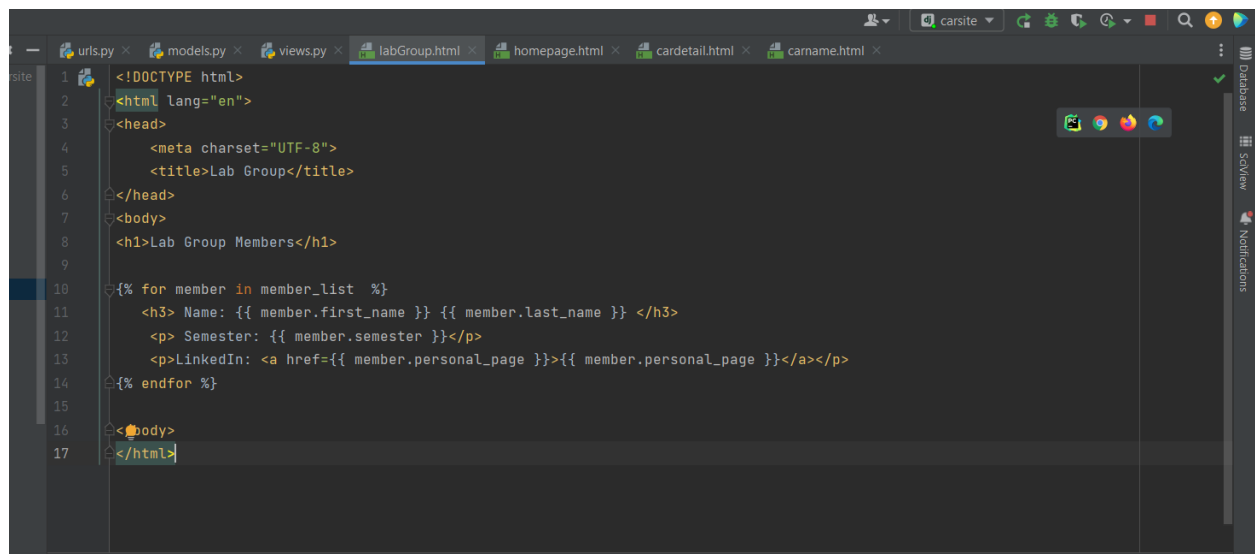
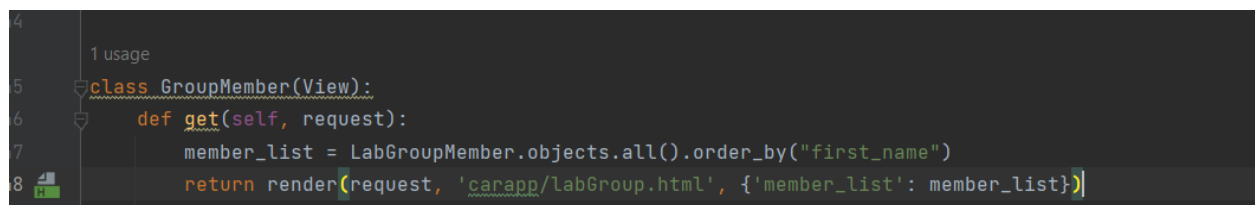
```
urls.py × models.py × views.py × homepage.html × cardetail.html × carname.html ×
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <title>Car Name</title>
6 </head>
7 <body>
8
9     <h1>The Car Models from {{ car_name }}:</h1>
10    {% for car in selected_car %}
11        <li>{{ car }}</li>
12    {% endfor %}
13
14
15
16 </body>
17 </html>
```





(g) Final Step

Convert your team details view to a class-based view and create a template for it. This template should display the names and the links to professional pages (Ex. LinkedIn) of your team members.



Lab Group Members

Name: Khondoker Aminuzzaman

Semester: 3

LinkedIn: <https://www.linkedin.com/in/aminuzz110090822/>

Name: Shivam Sunil Bhosale

Semester: 3

LinkedIn: <https://www.linkedin.com/in/shivambhosale/>

Name: Vishva Delliwala

Semester: 3

LinkedIn: <https://www.linkedin.com/in/vishva-delliwala/>