School of Computer Science
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Master of Applied Computing
COMP-8347
Internet Applications and Distributed Systems

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LAB 6 – Working with Templates

Part 1:

a. Creating a directory for your templates

Check if a directory (or dir) named *templates* has been created inside your *carapp* dir. If it does not exist, then create a new dir *carapp/templates*. Inside *carapp/*templates, create a new dir called *carapp* to store your template files. Therefore, your templates will be in *carsite/carapp/templates/carapp*, respectively.

b. Updating the *index view*

i. Import *render* by adding following line to *views.py*.

   from django.shortcuts import render

ii. Update *homepage view* in *views.py* as follows:

```
def homepage(request):
        cartype_list = CarType.objects.all().order_by('id')
        return render(request, 'carapp/homepage.html', {'cartype_list': cartype_list})
```

iii. 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.

c. Create *homepage.html*

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

ii. Edit *homepage.html* as follows:

```
<!DOCTYPE html>
<html>
<head lang="en">
    <meta charset="UTF-8">
    <title> Car Site </title>
```

```html
</head>

<body>
    {% if cartype_list %}
        <h2> Type of Cars </h2>
        <ol>
                {% for cartype in cartype_list %}
                        <li> {{ cartype.name}} </li>
                {% endfor %}
        </ol>
    {% else %}
        <strong> None of the car types is available! </strong>
    {% endif %}
</body>
</html>
```

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

iv. 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>**

v. Change the above hardcoded URL to a URL with **namespacing**.

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.

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.

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*

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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.

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.

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.

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.