University of Windsor

School of Computer Science
https://cs.uwindsor.ca

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

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LAB 9 – User Authentication, Sessions, and Cookies

Marks = 1.5

Submission =

- **For this lab, you must work as your lab group. After completion, submit all your files on Brightspace before the due date. Only one group member should submit the files.**
- **You must complete Part 1 during the class to get 1/1.5 Mark.**
- **Files to upload on Brightspace:**
    - **Your car site folder. For this lab, folder submission is allowed.**

1. Working with Sessions and Cookies:

Based on your understanding of today's lecture and knowledge of sessions and cookies:

a. Count the number of sessions for any of your pages (ex. Homepage, Aboutus page and so on). Each a time a user refreshes the page, the session number gets incremented.

b. Set the cookies for any of your pages (ex. Homepage, Aboutus page and so on). You can set any value for the cookie counter (ex. 10 seconds).

2. Create views for user *login* and *logout*:

a. Edit your *views.py* file as follows:

```
# Import necessary classes and models

from django.contrib.auth import authenticate, login, logout
from django.contrib.auth.decorators import login_required, user_passes_test

 # Create your views here.
     def login_here(request):
       if request.method = = 'POST':
         username = request.POST['username']
         password = request.POST['password']
         user = authenticate(username=username, password=password)
         if user:
           if user.is_active:
             login(request, user)
             return HttpResponseRedirect(reverse('carapp:homepage'))
           else:
             return HttpResponse('Your account is disabled')
         else:
           return HttpResponse('Login details are incorrect')
```

```
    else:
        return render(request, 'carapp/login_here.html')

@login_required
def logout_here(request):
    logout(request)
    return HttpResponseRedirect(reverse(('carapp:homepage')))
```

b. Create *login_here.html* in the appropriate dir. It should ask for a username and password and pass the information to the *login_here* view function given above.

c. Update *carapp/urls.py* to handle **login** and **logout**.

Note: To understand *redirect* and *reverse* in detail, please visit the following link:

https://pytutorial.com/django-http-response-redirect/

3. Create *myorders* view:

Define a view function *list_of_orders(request)* in your *views.py* file. The user must be logged in to access this function. For a logged in user:

a. If the user is one of the buyers, return all the orders that have been placed by the user.

b. Otherwise, display a message: ‘You are not registered’.

c. Update *carapp/urls.py* appropriately.

d. Create *list_of_orders.html* to display the orders that have been placed by the user or a suitable message if the user has not placed any orders.

Note: Delete all the unnecessary/unused functions from your grocery application.