# User Management - continue - login

# 1. cookie & session

#### What are session cookies? Do they need consent? - CookieYes

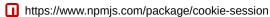
Session cookies are cookies that last only for a single user session. Learn more about why they are used, if they need consent and whether they are GDPR compliant.

★ https://www.cookieyes.com/blog/session-cookies/



#### npm: cookie-session

cookie session middleware. Latest version: 2.0.0, last published: a year ago. Start using cookie-session in your project by running `npm i cookie-session`. There are 8262 other projects in the npm registry using





#### Everything You Need to Know About Session Cookies - Securiti

A session cookie is a simple snippet of code that a website installs on its visitor's device for temporary use. It helps track real-time changes in a user's activity while on a website, such as adding items to the





### Session Cookie

This definition explains the meaning of Session Cookie and why it matters.

† https://www.techopedia.com/definition/4910/session-cookie

# 2. login page

```
class LoginForm(forms.Form):
   username = forms.CharField(label='Username',
                               widget=forms.TextInput(
                                   attrs={"class": "form-control"}
    password = forms.CharField(label='Password',
                               widget=forms.PasswordInput(
                                   attrs={"class": "form-control"}
    remember = forms.BooleanField(label='RememberMe',
                                  widget=forms.CheckboxInput(
                                      attrs={"class": "form-check-input"}
   def __init__(self, *args, **kwargs):
        super().__init__(*args, **kwargs)
        for name, field in self.fields.items():
            if name != 'remember':
                if field.widget.attrs:
                    field.widget.attrs['class'] = 'form-control'
                    field.widget.attrs['placeholder'] = field.label
                    field.widget.attrs = {"class": "form-control",
                                          "placeholder": field.label}
```

```
def login(request):
    if request.method == 'GET':
        form = LoginForm()
        return render(request, 'login.html', {'form': form})

form = LoginForm(data=request.POST)
    if form.is_valid():
        pass
    return render(request, 'login.html', {'form': form})
```

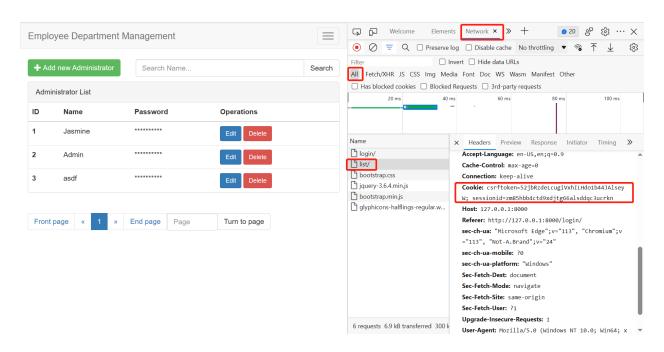
```
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>Title</title>
   <link rel="stylesheet" href="{% static "plugins/bootstrap-3.4.1-dist/css/bootstrap.css" %}">
   <stvle>
       .w_title {
           color: darkgray;
           font-family: "Eras Light ITC";
           font-weight: bold;
       .container{
           width: 400px;
           padding: 30px;
           margin-top: 10px;
           border: 1px solid gray;
   </style>
</head>
<body>
   <div class="container" style="box-shadow: 5px 5px lightgray; margin-top: 100px">
       <h1 class="w_title" style="text-align: center;">User Login</h1>
       <form method="post" novalidate>
           {% csrf_token %}
           <div class="mb-3">
               <label class="form-label">Email address</label>
               {{ form.username }}
               <div class="form-text" style="color: red">{{ form.username.errors.0 }}</div>
           <div class="mb-3">
               <label class="form-label">Password</label>
               {{ form.password }}
               </div>
           <div class="mb-3 form-check">
               {{ form.remember }}
               <label class="form-check-label" for="exampleCheck1">Remember me</label>
           <button type="submit" class="btn btn-primary">Submit</button>
       </form>
   </div>
</body>
</html>
```

# 3. connect to database

# check username & password

```
required=True)
   password = forms.CharField(label='Password',
                               widget=forms.PasswordInput,
                               required=True)
   def __init__(self, *args, **kwargs):
        super().__init__(*args, **kwargs)
       for name, field in self.fields.items():
            if field.widget.attrs:
               field.widget.attrs['class'] = 'form-control'
               field.widget.attrs['placeholder'] = field.label
            else:
               field.widget.attrs = {"class": "form-control",
                                          "placeholder": field.label}
   def clean_password(self):
       pwd = self.cleaned_data.get('password')
        return md5(pwd)
def login(request):
   if request.method == 'GET':
        form = LoginForm()
       return render(request, 'login.html', {'form': form})
   print(2)
   form = LoginForm(data=request.POST)
   if form.is_valid():
       # form.cleaned_data (type:dict)
       # find record in dict where username, password = username, password
       admin_object = models.Admin.objects.filter(**form.cleaned_data).first()
       if not admin object:
            form.add_error("password", "Username or Password incorrect")
            return render(request, 'login.html', {'form': form})
       # cookie & session
       request.session['info'] = {'id': admin_object.id, 'name': admin_object.username}
        return redirect("/admin/list/")
   return render(request, 'login.html', {'form': form})
```

## cookie



sessionid=zm85hbb4ctd9xdjtg66alsddqc3ucrkn

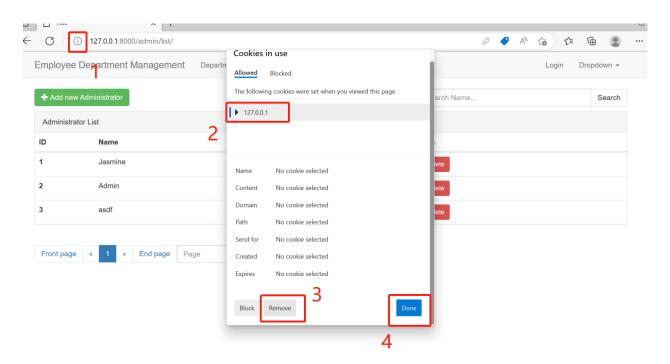
we will store this id in the database:

```
mysql> show tables;

| Tables_in_django_ex_user_manage |
| app01_admin |
| app01_department |
| app01_userinfo |
| auth_group |
| auth_group |
| auth_group |
| auth_group |
| auth_user |
| auth_user
```

# 4. disable access if haven't login

## remove cookies



### add cookie check in each list session

```
# check if login
# if already login, allowed access, else, reject and redirect to login page
# get cookie if exist
info = request.session.get("info")
if not info:
    return redirect('/login/')
```

this time when click on xxxlist, will redirect to login page.

also, need to add it to each add/edit/delete

## middleware

## add middle ware

```
from django.utils.deprecation import MiddlewareMixin from django.shortcuts import redirect
```

```
class AuthfromMiddleware(MiddlewareMixin):
    def process_request(self, request):
        # if have login
        info_dict = request.session.get("info")
        if info_dict:
            return
        # haven't login
        return redirect('/login/')
```

## register middle ware

```
| Dango_user_manage | Oango_user_manage | Settings.py | Se
```

#### add here

```
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',
    'app01.middleware.auth.AuthfromMiddleware',
```

but when running, we keep getting

```
[14/May/2023 20:21:09] "GET /user/list/ HTTP/1.1" 302 0
[14/May/2023 20:21:09] "GET /login/ HTTP/1.1" 302 0
```

because, every time we want to get to login page, we have to login. (also add this middle ware to login page)

Thus we need to exclude login page