

Week 10 class assignment

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Q1 code

Urls.py

```
# website_directory/urls.py
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('directory.urls')),
]
```

Urls.py

```
# directory/urls.py
from django.urls import path
from . import views

urlpatterns = [
    path('', views.index, name='index'),
    path('add_category/', views.add_category, name='add_category'),
    path('add_page/', views.add_page, name='add_page'),
]
```

Models.py

```
# directory/models.py
from django.db import models

class Category(models.Model):
    name = models.CharField(max_length=100)
    visits = models.IntegerField(default=0)
    likes = models.IntegerField(default=0)
```

```

def __str__(self):
    return self.name

class Page(models.Model):
    category = models.ForeignKey(Category, on_delete=models.CASCADE)
    title = models.CharField(max_length=100)
    url = models.URLField()
    views = models.IntegerField(default=0)

def __str__(self):
    return self.title

```

Add_category.html

```

<!-- directory/templates/directory/add_category.html -->
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Add Category</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body class="bg-light">
<div class="container mt-5">
<h2 class="text-center mb-4">Add Category</h2>
<div class="card shadow-sm p-4">
<form method="post">
{% csrf_token %}
{{ form.as_p }}
<button type="submit" class="btn btn-success mt-3">Add Category</button>
<a href="{% url 'index' %}" class="btn btn-secondary mt-3">Back to Home</a>
</form>
</div>
</div>
</body>
</html>

```

Add_page.html

```

<!-- directory/templates/directory/add_page.html -->
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Add Page</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body class="bg-light">
<div class="container mt-5">
<h2 class="text-center mb-4">Add Page</h2>
<div class="card shadow-sm p-4">
<form method="post">
{% csrf_token %}
{{ form.as_p }}
<button type="submit" class="btn btn-primary mt-3">Add Page</button>
<a href="{% url 'index' %}" class="btn btn-secondary mt-3">Back to Home</a>
</form>
</div>
</div>
</body>
</html>

```

Index.html

```

<!-- directory/templates/directory/index.html -->
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Website Directory</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body class="bg-light">
<div class="container mt-5">
<h2 class="text-center mb-4">🌐 Website Directory</h2>
<div class="d-flex justify-content-between mb-3">
<a href="{% url 'add_category' %}" class="btn btn-success">Add Category</a>
<a href="{% url 'add_page' %}" class="btn btn-primary">Add Page</a>


```

```

</div>
<div class="card shadow-sm">
<div class="card-body">
<h4>Categories</h4>
<ul class="list-group">
{% for category in categories %}
<li class="list-group-item d-flex justify-content-between align-items-center">
{{ category.name }}
<span>Visits: {{ category.visits }} | Likes: {{ category.likes }}</span>
</li>
{% endfor %}
</ul>
</div>
</div>
</div>
</div>
</body>
</html>

```

OUTPUT

 Website Directory

Add Category
Add Page

Categories

dwsc	Visits: 2 Likes: 1
f1	Visits: 16 Likes: 6

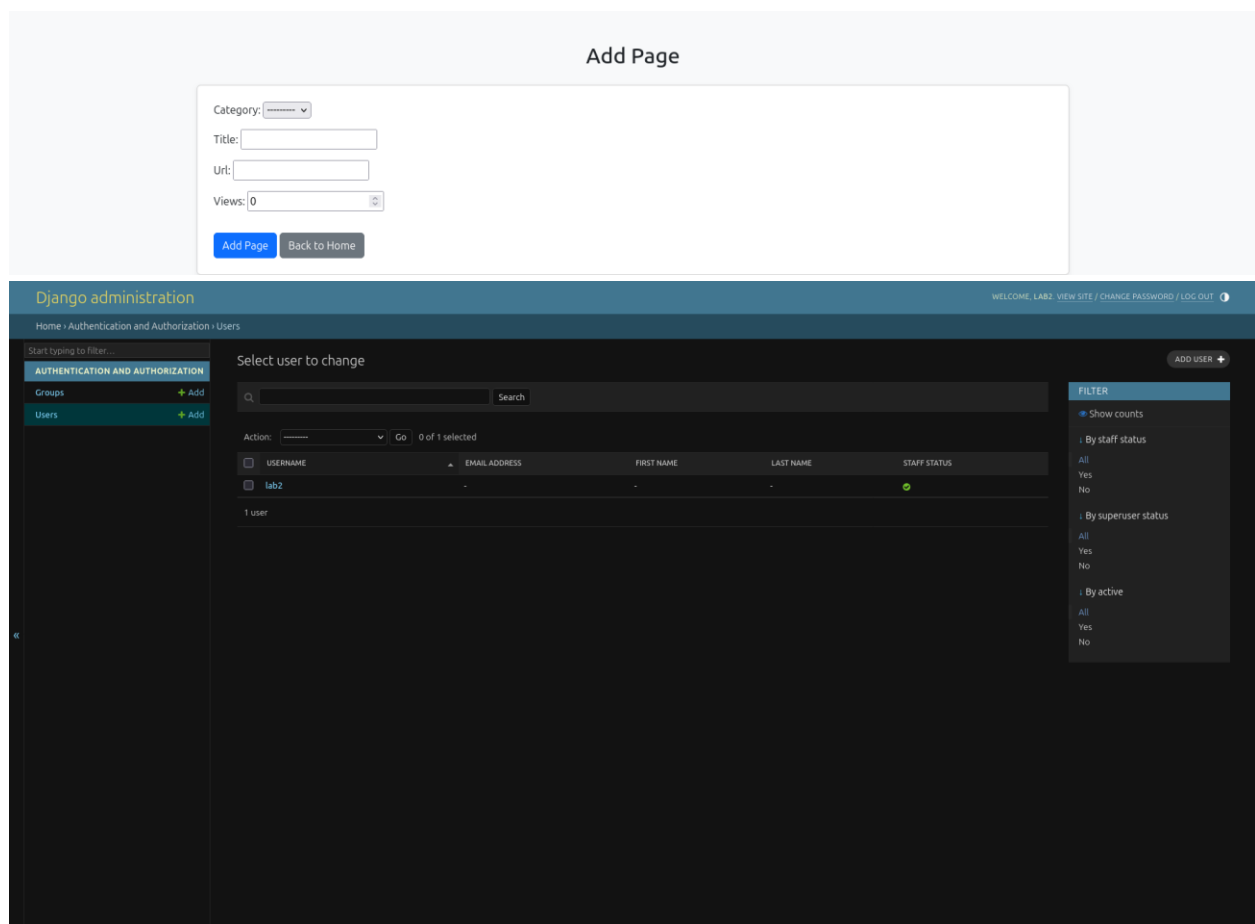
Add Category

Name:

Visits:

Likes:

Add Category
Back to Home



Q2 CODE

Add_work.html

```
<!-- work_lives/templates/work_lives/add_work.html -->
{% extends 'work_lives/index.html' %}

{% block content %}
<div class="container mt-5">
<h3>Add Work</h3>
<form method="post">
{% csrf_token %}
{{ form.as_p }}
<button type="submit" class="btn btn-success mt-2">Add Work</button>
</form>
</div>
```

```
{% endblock %}
```

Index.html

```
<!-- work_lives/templates/work_lives/index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Employment Directory</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
<style>
body { background-color: #121212; color: #ffffff; }
.container { margin-top: 50px; }
a { color: #4caf50; text-decoration: none; }
</style>
</head>
<body>
<div class="container text-center">
<h2>Employment Directory 🎲</h2>
<a href="{% url 'add_work' %}" class="btn btn-success m-3">Add Work</a>
<a href="{% url 'search_company' %}" class="btn btn-primary m-3">Search Company</a>
</div>
{% block content %}{% endblock %}
</body>
</html>
```

Search_company.html

```
<!-- work_lives/templates/work_lives/search_company.html -->
{% extends 'work_lives/index.html' %}

{% block content %}
<div class="container mt-5">
<h3>Search by Company</h3>
<form method="post">
{% csrf_token %}
{{ form.as_p }}
<button type="submit" class="btn btn-primary mt-2">Search</button>
</form>
<h4 class="mt-4">Results:</h4>
<ul class="list-group">
```

```
{% for result in results %}
<li class="list-group-item bg-dark text-white">
{{ result.person_name }} - {{ result.city }}
</li>
{% empty %}
<li class="list-group-item bg-dark text-white">No results found.</li>
{% endfor %}
</ul>
</div>
{% endblock %}
```

Forms.py

```
# work_lives/forms.py
from django import forms
from .models import Works

class WorksForm(forms.ModelForm):
    class Meta:
        model = Works
        fields = ['person_name', 'company_name', 'salary']
        widgets = {
            'person_name': forms.TextInput(attrs={'class': 'form-control', 'placeholder': 'Enter Person Name'}),
            'company_name': forms.TextInput(attrs={'class': 'form-control', 'placeholder': 'Enter Company Name'}),
            'salary': forms.NumberInput(attrs={'class': 'form-control', 'placeholder': 'Enter Salary'}),
        }

class CompanySearchForm(forms.Form):
    company_name = forms.CharField(
        max_length=100,
        widget=forms.TextInput(attrs={'class': 'form-control', 'placeholder': 'Enter Company Name'})
    )
```

Models.py

```
# work_lives/models.py
from django.db import models

class Works(models.Model):
    person_name = models.CharField(max_length=100)
    company_name = models.CharField(max_length=100)
    salary = models.DecimalField(max_digits=10, decimal_places=2)
```

```

def __str__(self):
    return self.person_name

class Lives(models.Model):
    person_name = models.CharField(max_length=100)
    street = models.CharField(max_length=100)
    city = models.CharField(max_length=100)

    def __str__(self):
        return self.person_name

```

Views.py

```

# work_lives/views.py
from django.shortcuts import render, redirect
from .models import Works, Lives
from .forms import WorksForm, CompanySearchForm

def index(request):
    return render(request, 'work_lives/index.html')

def add_work(request):
    if request.method == 'POST':
        form = WorksForm(request.POST)
        if form.is_valid():
            form.save()
            return redirect('index')
        else:
            form = WorksForm()
            return render(request, 'work_lives/add_work.html', {'form': form})

def search_company(request):
    results = []
    if request.method == 'POST':
        form = CompanySearchForm(request.POST)
        if form.is_valid():
            company_name = form.cleaned_data['company_name']
            results = Works.objects.filter(company_name=company_name).select_related()
            results = [
                {
                    'person_name': work.person_name,

```



```

'city': Lives.objects.filter(person_name=work.person_name).first().city
}
for work in results
]
else:
form = CompanySearchForm()
return render(request, 'work_lives/search_company.html', {'form': form, 'results': results})

```

Urls.py

```

# work_lives/urls.py
from django.urls import path
from . import views

urlpatterns = [
path('', views.index, name='index'),
path('add_work/', views.add_work, name='add_work'),
path('search_company/', views.search_company, name='search_company'),
]

```

Urls.py

```

# employment_directory/urls.py
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
path('admin/', admin.site.urls),
path('', include('work_lives.urls')),
]

```

OUTPUT

Employment Directory

Add Work

Search Company

Add Work

Person name:

Enter Person Name

Company name:

Enter Company Name

Salary:

Enter Salary

Add Work

Employment Directory

Add Work

Search Company

Search by Company

Company name:

Enter Company Name

Search

Results:

No results found.