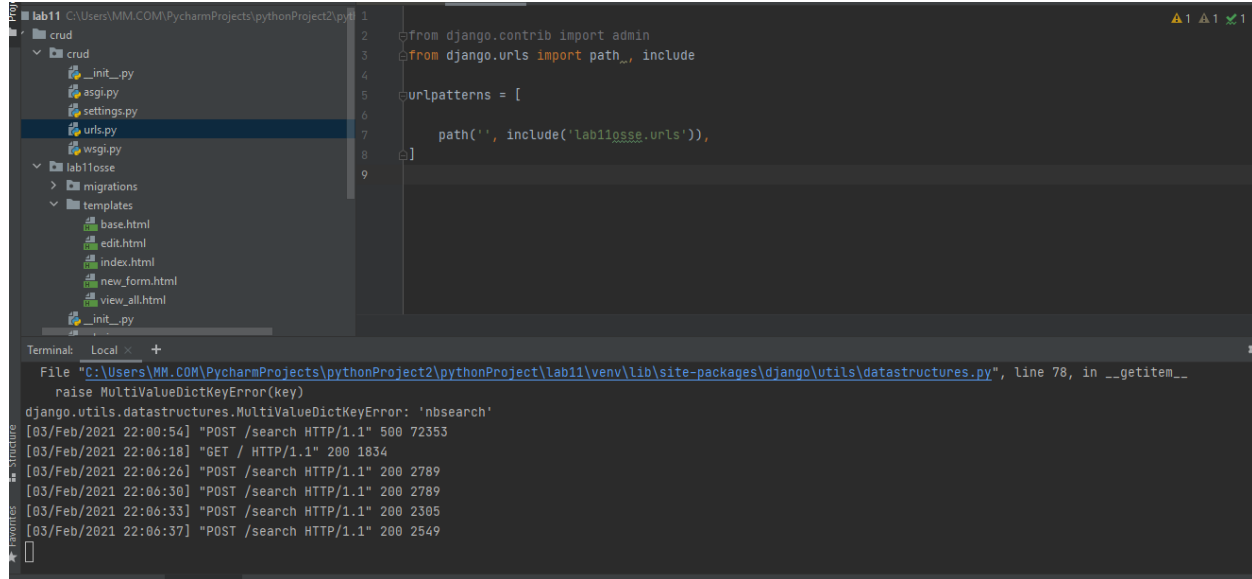


LAB: 11

crud.urls:



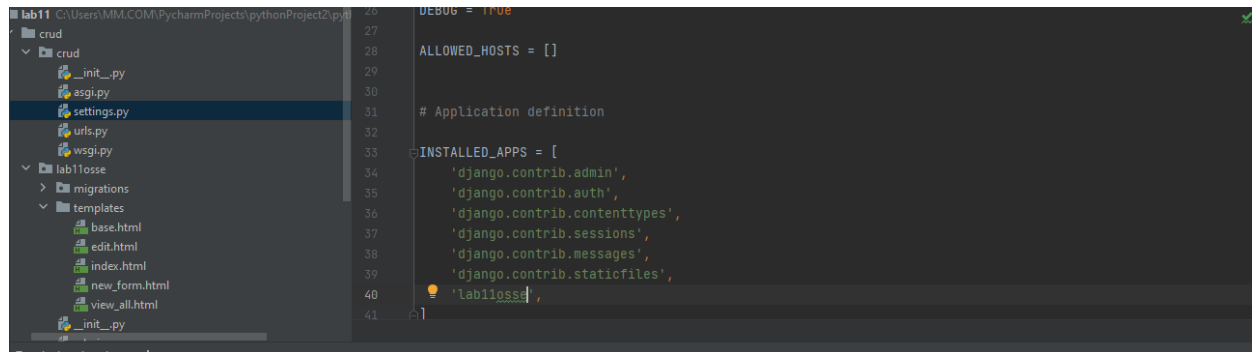
The screenshot shows the PyCharm IDE with the file explorer on the left displaying the project structure. The file `crud/urls.py` is selected. The main editor shows the following code:

```
1 from django.contrib import admin
2
3 from django.urls import path, include
4
5 urlpatterns = [
6
7     path('', include('lab10sse.urls')),
8 ]
9
```

The terminal at the bottom shows the following output:

```
File "C:\Users\MM.COM\PycharmProjects\pythonProject2\pythonProject\lab11\venv\lib\site-packages\django\utils\datastructures.py", line 78, in __getitem__
    raise MultiValueDictKeyError(key)
django.utils.datastructures.MultiValueDictKeyError: 'nbsearch'
[03/Feb/2021 22:00:54] "POST /search HTTP/1.1" 500 72353
[03/Feb/2021 22:06:18] "GET / HTTP/1.1" 200 1834
[03/Feb/2021 22:06:26] "POST /search HTTP/1.1" 200 2789
[03/Feb/2021 22:06:30] "POST /search HTTP/1.1" 200 2789
[03/Feb/2021 22:06:33] "POST /search HTTP/1.1" 200 2305
[03/Feb/2021 22:06:37] "POST /search HTTP/1.1" 200 2549
```

setting.py:



The screenshot shows the PyCharm IDE with the file explorer on the left displaying the project structure. The file `settings.py` is selected. The main editor shows the following code:

```
26 DEBUG = True
27
28 ALLOWED_HOSTS = []
29
30
31 # Application definition
32
33 INSTALLED_APPS = [
34     'django.contrib.admin',
35     'django.contrib.auth',
36     'django.contrib.contenttypes',
37     'django.contrib.sessions',
38     'django.contrib.messages',
39     'django.contrib.staticfiles',
40     'lab10sse',
41 ]
```

base.html:

```
1 <!doctype html>
2 <html lang="en">
3 <head>
4 <!-- Required meta tags -->
5 <meta charset="utf-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1">
7
8 <!-- Bootstrap CSS -->
9 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-g1JF6kkqN900vy+HMDP7az0uL0"
10
11
12 </head>
13 <body>
14 <div class="container">
15 <nav class="navbar navbar-expand-lg navbar-light bg-light">
16 <div class="container-fluid">
17 <a class="navbar-brand" href="#">CRUD APP</a>
18 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" ar
19 <span class="navbar-toggler-icon"></span>
20 </button>
21 <div class="collapse navbar-collapse" id="navbarSupportedContent">
22 <ul class="navbar-nav me-auto mb-2 mb-lg-0">
23 <li class="nav-item">
24 <a class="nav-link active" aria-current="page" href="/">Home</a>
25 </li>
26 <li class="nav-item">
```

```
23 <li class="nav-item">
24 <a class="nav-link active" aria-current="page" href="/">Home</a>
25 </li>
26 <li class="nav-item">
27 <a class="nav-link" href="new_form">ADD</a>
28 </li>
29
30 <li><a class="dropdown-item" href="show">SHOW</a></li>
31 <BR>
32
33
34 <form class="d-flex" method="POST" action="search">
35 { csrf_token %}
36 <input class="form-control me-2" type="text" placeholder="Search" aria-label="Search" name="nbsearch">
37 <button class="btn btn-outline-success" type="submit">Search</button>
38 </form>
39
40
41 </div>
42 </div>
43 </div>
44 </nav>
45 </div>
46 <div class="container">
47 { %block context% }
48
```

html > body > div.container > nav.navbar.navbar-expand-lg.navbar-light.bg-light > div.container-fluid > div#navbarSupportedContent.collapse.navbar-collapse > ul.navbar-nav.me-auto.mb-2.mb-lg-0 > form.d-flex

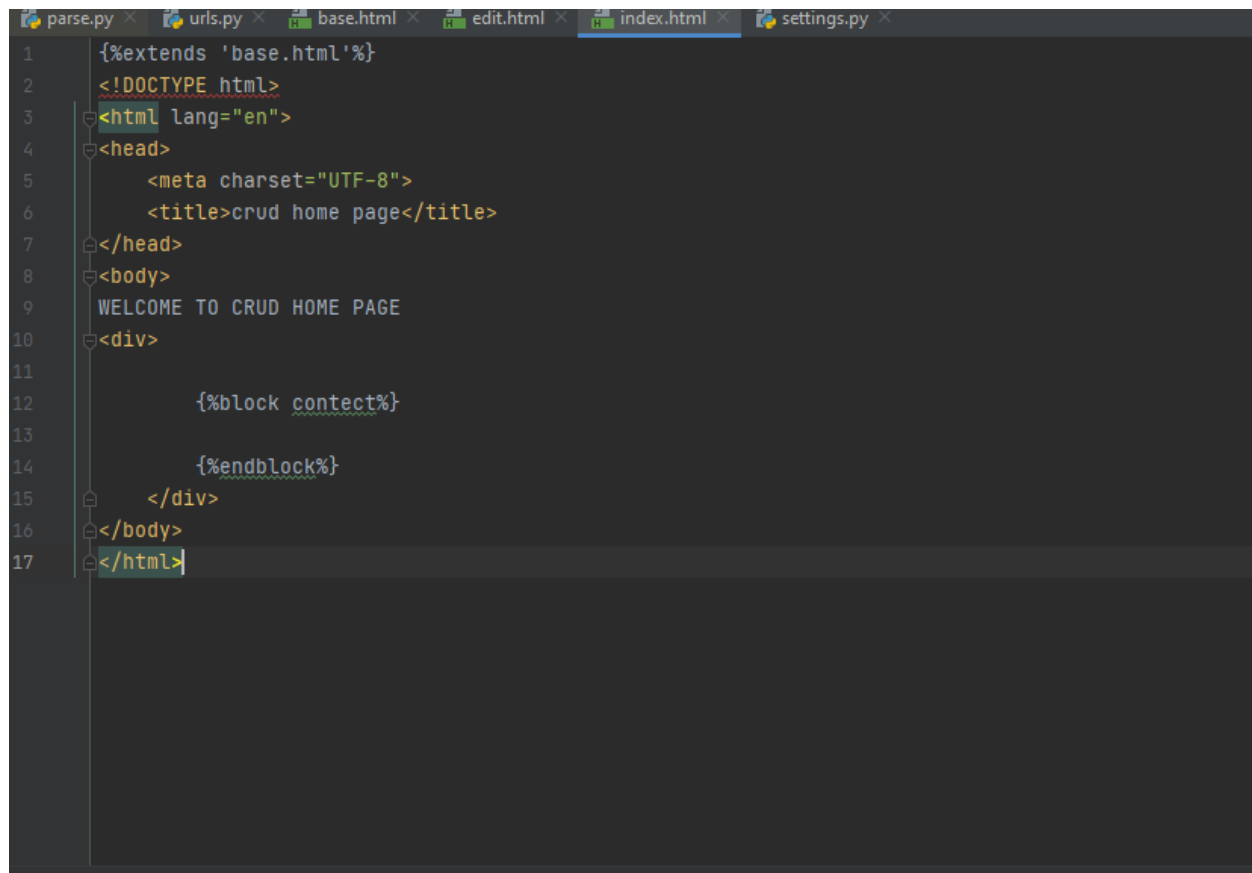
Terminal Local +

```
33
34 <form class="d-flex" method="POST" action="search">
35     {% csrf_token %}
36     <input class="form-control me-2" type="text" placeholder="Search" aria-label="Search" name="nbsearch">
37     <button class="btn btn-outline-success" type="submit">Search</button>
38 </form>
39
40
41
42 </div>
43 </div>
44 </nav>
45 </div>
46 <div class='container'>
47
48     {%block connect%}
49
50     {%endblock%}
51 </div>
52 </body>
53 </html>
```

edit.html:

```
6 <title>crud edit page</title>
7 </head>
8 <body>
9
10 <div>
11
12     {%block connect%}
13 <form action="/update/{{stud.id}}" method="POST">
14     {% csrf_token %}
15     <label>roll no. </label> <div> <input name="std_rn" value="{{stud.std_rn}}"></div><br>
16     <label>name </label> <div> <input name="std_name" value="{{stud.std_name}}"></div><br>
17     <label>contact </label> <div> <input name="std_contact" value="{{stud.std_contact}}"></div><br>
18     <label>email </label> <div> <input name="std_email" value="{{stud.std_email}}"></div><br>
19     <button type='SUBMIT'> update student</button>
20
21
22 </form>
23
24     {%endblock%}
25 </div>
26 </body>
27 </html>
```

index.html:



```
1 {%extends 'base.html'%}
2 <!DOCTYPE html>
3 <html lang="en">
4 <head>
5     <meta charset="UTF-8">
6     <title>crud home page</title>
7 </head>
8 <body>
9     WELCOME TO CRUD HOME PAGE
10 <div>
11
12     {%block conetect%}
13
14     {%endblock%}
15 </div>
16 </body>
17 </html>
```

new_form.html:

```
parse.py x urls.py x base.html x edit.html x index.html x new_form.html x settings.py x
1 {%extends 'base.html'%}
2 {%block conlect%}
3 <!DOCTYPE html>
4 <html lang="en">
5 <head>
6 <meta charset="UTF-8">
7 <title>crud add new student</title>
8 </head>
9 <body>
10 WELCOME TO CRUD HOME PAGE
11
12
13
14 <form action="new_form" method="POST" class="form-inline">
15     {% csrf_token %}
16
17     <label>roll no. </label> <div>{{form.std_rn}}</div>
18     <label>name </label> <div>{{form.std_name}}</div>
19     <label>contact </label> <div>{{form.std_contact}}</div>
20     <label>email </label> <div>{{form.std_email}}</div>
21     <button type='SUBMIT'> add new students</button>
22 </form>
23
24
25 </body>
26 </html>
```

view_all.html:

```
parse.py x urls.py x base.html x edit.html x index.html x new_form.html x view_all.html x settings.py x
3 <html lang="en">
4 <head>
5 <meta charset="UTF-8">
6 <title>crud show page</title>
7 </head>
8 <body>
9
10
11
12 {%block conlect%}
13
14 <table class="table table-striped">
15 <tr>
16 <th>rollno</th>
17 <th>name</th>
18 <th>contact</th>
19 <th>email</th>
20 <th>ACTIONS</th>
21 </tr>
22 {%for s in stud%}
23 <tr>
24 <td>{{s.std_rn}}</td>
25 <td>{{s.std_name}}</td>
26 <td>{{s.std_contact}}</td>
27 <td>{{s.std_email}}</td>
28 <td><a href="edit/{{s.id}}">edit</a>|<a href="delete/{{s.id}}">delete</a></td>
```

```

        <td><a href="edit/{s.id}">edit</a>|<a href="delete/{s.id}">delete</a>|</td>
    </tr>
    {%endfor%}
</table>

{%endblock%}

</body>
</html>

```

forms.py

```

1 from django import forms
2 from .models import student
3 class studentsForm(forms.ModelForm):
4     class Meta:
5         model = student
6         fields = '__all__'

```

models.py:

```

1 from django.db import models
2 from django import forms
3
4 class student(models.Model):
5     std_rn=models.CharField(max_length=100)
6     std_name=models.CharField(max_length=100)
7     std_contact=models.CharField(max_length=100)
8     std_email=models.EmailField()
9     def __str__(self):
10         return(self.std_name)

```

lab11osse

urls.py:

```

1 from django.urls import path
2 from . import views
3
4 urlpatterns = [
5     path('', views.index),
6     path('new_form', views.new_form),
7     path('show', views.view_all),
8     path('edit/<int:id>', views.edit),
9     path('update/<int:id>', views.update),
10    path('delete/<int:id>', views.delete),
11    path('search', views.search),
12]

```

views.py:

```
index.html × new_form.html × view_all.html × _init_.py × admin.py × forms.py × models
1 from django.shortcuts import render, redirect
2 from .forms import studentsForm
3 from .models import student
4 def index(request):
5     return render(request, 'index.html')
6 def new_form(request):
7     if request.method == 'POST':
8         form = studentsForm(request.POST)
9         if form.is_valid():
10             student = form.save(commit=False)
11             form.save()
12             student.user = request.user # Set the user object here
13             student.save()
14             return redirect('/show')
15
16     else:
17         form = studentsForm
18         return render(request, 'new_form.html', {'form': form})
19 def view_all(request):
20     stud = student.objects.order_by('-id')
21     return render(request, 'view_all.html', {'stud': stud})
22
23 def edit(request, id):
24     stud = student.objects.get(id=id)
25     return render(request, 'edit.html', {'stud': stud})
26 def delete(request, id):
```

```
index.html x new_form.html x view_all.html x __init__.py x admin.py x forms.py x models.py x tests.py x urls.py
\\PycharmProjects\\pythonProject2\\pythonProject\\lab11.d=id)
25     return render(request, 'edit.html', {'stud': stud})
26     def delete(request, id):
27         stud = student.objects.get(id=id)
28         stud.delete()
29         return redirect('/show')
30
31     def update(request, id):
32         stud=student.objects.get(id=id)
33         if request.method == 'POST':
34             form = studentsForm(request.POST, instance=stud)
35             if form.is_valid():
36                 students = form.save(commit=False)
37                 form.save()
38                 students.user = request.user # Set the user object here
39                 students.save()
40             return redirect('/show')
41     def search(request):
42         s_keyword=request.POST['nbsearch']
43         stud = student.objects.filter(std_name__icontains=s_keyword)
44         return render(request, 'view_all.html', {'stud': stud})
45
46
47
```

home page:

CRUD Operations

Home

Add Students

Show Data

Insertion page:

[CRUD Operations](#) [Home](#) [Add Students](#) [Show Data](#)

Student Rollno.

Student Name

Student Email

Student Contact

inserted values:

CRUD Operations	Home	Add Students	Show Data	<input type="text" value="Search"/>	<input type="button" value="Submit"/>
Student Roll No	Student Name	Stuent Email	Student Contact	Actions	
45	zaman	za@gmail.com	09988456779	Edit Delete	
18B-025-SE	saad	sa@gmail.com	099887554321	Edit Delete	

after press update button:

127.0.0.1:8000/show

127.0.0.1:8000/show

CRUD APP	Home	ADD	SHOW	<input type="text" value="Search"/>	<input type="button" value="Search"/>
rollno	name	contact	email	ACTIONS	
18b-109-se	mahnoor khan	03452128117	MAHNOOR@GMAIL.COM	edit delete	
18b-009-se	bushra	0325666666	bush@mail.com	edit delete	

terminal:

```
System check identified no issues (0 silenced).
February 03, 2021 - 22:46:10
Django version 3.1.6, using settings 'crud.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

```

```
[03/Feb/2021 22:37:08] "GET /show HTTP/1.1" 200 2804
[03/Feb/2021 22:37:10] "GET /delete/1 HTTP/1.1" 302 0
[03/Feb/2021 22:37:10] "GET /show HTTP/1.1" 200 2562
[03/Feb/2021 22:37:12] "GET /delete/5 HTTP/1.1" 302 0
[03/Feb/2021 22:37:12] "GET /show HTTP/1.1" 200 2311
[03/Feb/2021 22:37:14] "GET /new_form HTTP/1.1" 200 2711
[03/Feb/2021 22:38:06] "POST /new_form HTTP/1.1" 302 0
[03/Feb/2021 22:38:06] "GET /show HTTP/1.1" 200 2564
[03/Feb/2021 22:38:46] "GET /edit/6 HTTP/1.1" 200 2437
[03/Feb/2021 22:40:02] "POST /update/6 HTTP/1.1" 302 0
[03/Feb/2021 22:40:02] "GET /show HTTP/1.1" 200 2562
[03/Feb/2021 22:40:47] "GET /delete/4 HTTP/1.1" 302 0
[03/Feb/2021 22:40:47] "GET /show HTTP/1.1" 200 2322
[03/Feb/2021 22:41:12] "GET /new_form HTTP/1.1" 200 2711
[03/Feb/2021 22:41:36] "POST /new_form HTTP/1.1" 302 0
[03/Feb/2021 22:41:36] "GET /show HTTP/1.1" 200 2560
[03/Feb/2021 22:42:13] "POST /search HTTP/1.1" 200 2322
[03/Feb/2021 22:42:51] "GET /new_form HTTP/1.1" 200 2711
```