

CS471 – Web Technologies (Laboratory)		Lab 6
		Revision

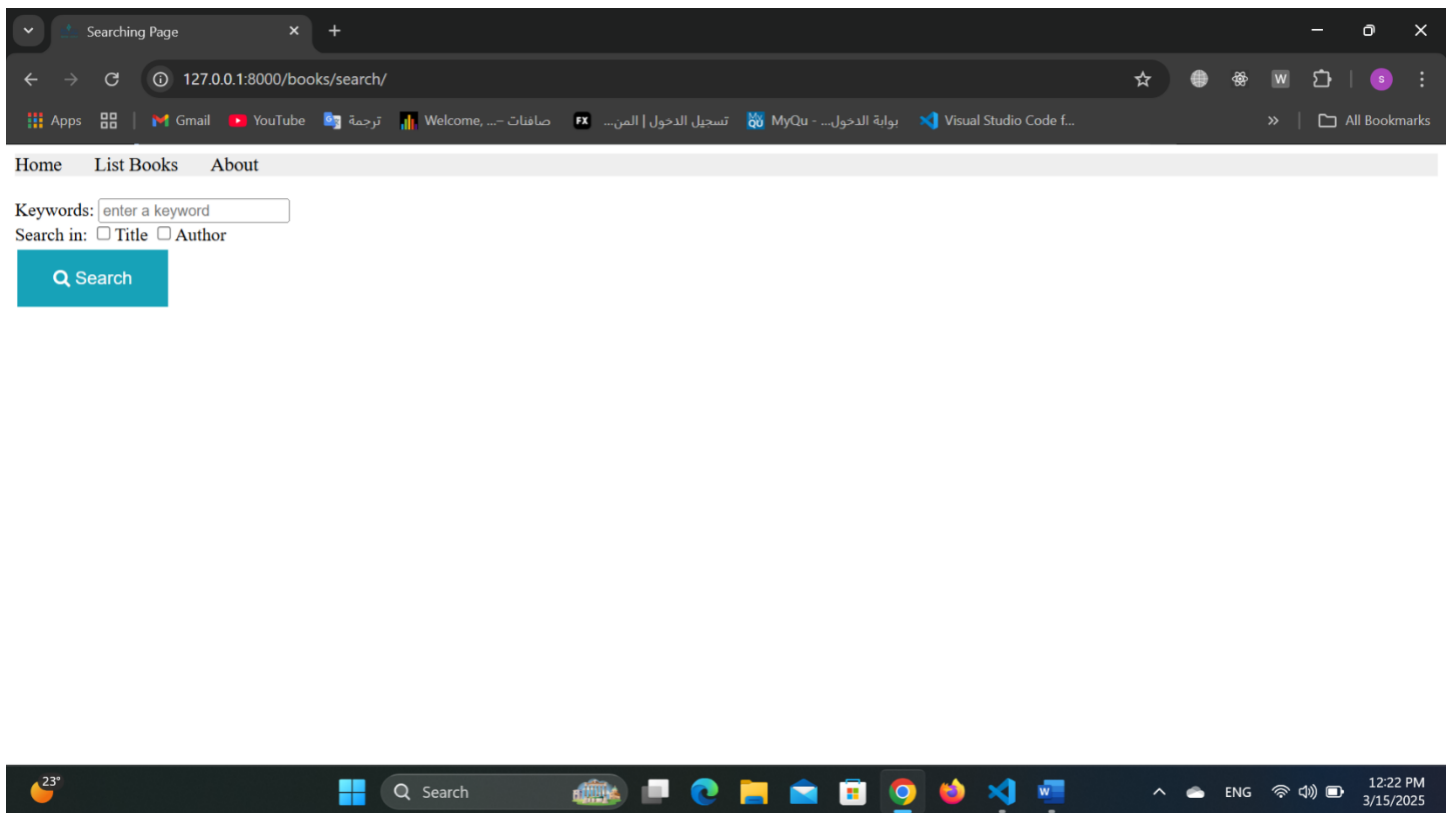
This lab session covers the basics of HTML form. By the end of this session, students should have a very good understanding of how to build a basic form and how to Handle form in Django.

Pre-lab Preparation:

1. Having bookmodule and usermodule in apps directory, each containing separate URL configurations.
2. Template directory located in 'apps' with necessary settings.
3. Master template 'base.html'

Lab Activities: A complete webpage example with html form and Handling form in Django

Task 1: Build HTML form template



libraryproject > apps > templates > bookmodule > search.html > ...

```

1 {% extends "bookmodule/layouts/base.html" %}
2 {% load static %}
3 {% block title %} Searching Page {% endblock title %}
4 {% block stylesheets %}
5 <style>
6     .searchForm{
7         margin-top: 20px;
8     }
9
10    button {
11        color: #fff;
12        background-color: #17a2b8;
13        border-color: #17a2b8;
14        border: none;
15        padding: 16px 32px;
16        text-align: center;
17        text-decoration: none;
18        display: inline-block;
19        font-size: 16px;
20        margin: 4px 2px;
21        transition-duration: 0.4s;

```

PROBLEMS 7 OUTPUT DEBUG CONSOLE TERMINAL PORTS

March 15, 2025 - 12:24:23
Django version 5.1.6, using settings 'libraryproject.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

libraryproject > apps > templates > bookmodule > search.html > form.searchForm

```

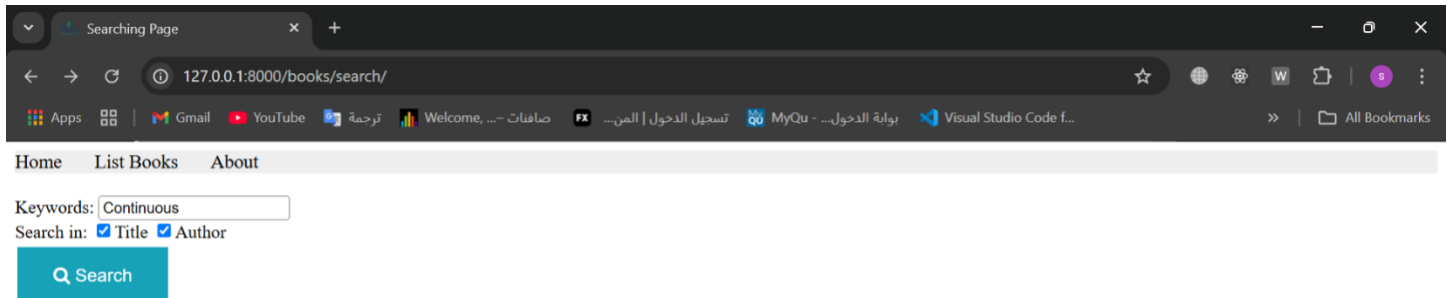
5 <style>
28
29 </style>
30 {% endblock stylesheets %}
31
32 {% block content %}
33 <form class="searchForm" method="post" action="">
34     {% csrf_token %}
35     <label>Keywords:</label>
36     <input type="text" name="keyword" placeholder="enter a keyword"/>
37     <br/>
38
39     <label>Search in:</label>
40     <input type="checkbox" name="option1"/><label>Title</label>
41     <input type="checkbox" name="option2"/><label>Author</label>
42     <br/>
43
44     <button type="submit"><i class="fa fa-search" aria-hidden="true"></i> Search</button>
45 </form>
46 {% endblock content %}
47

```

PROBLEMS 7 OUTPUT DEBUG CONSOLE TERMINAL PORTS

March 15, 2025 - 12:24:23
Django version 5.1.6, using settings 'libraryproject.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

Task 2: Handle the form once submitted



Searching Page

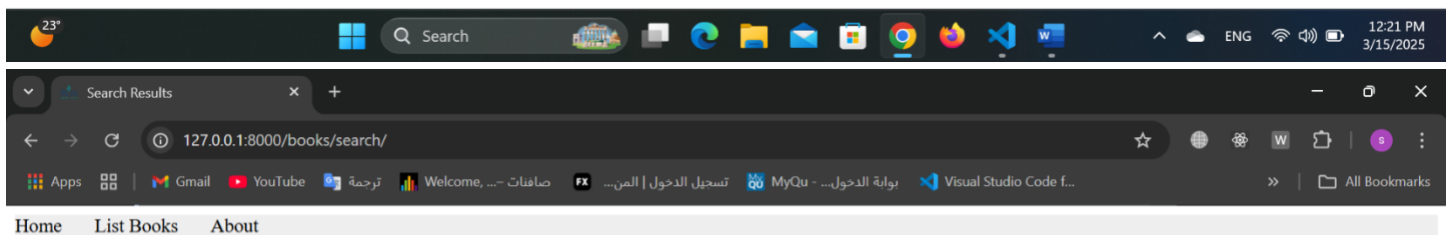
127.0.0.1:8000/books/search/

Home List Books About

Keywords: Continuous

Search in: ☒ Title ☒ Author

Search



Search Results

127.0.0.1:8000/books/search/

Home List Books About

Search Results

- Continuous Delivery - J.Humble and D. Farley

[Back to Search](#)

The screenshot shows the VS Code editor with the Django project 'DjangoProjects' open. The Explorer panel on the left shows the project structure, including 'libraryproject', 'apps', 'bookmodule', and 'static'. The 'bookList.html' file is selected in the Explorer and is also open in the Editor. The code in 'bookList.html' is as follows:

```
1 {% extends "bookmodule/layouts/base.html" %}
2 {% block title %} Search Results {% endblock title %}
3
4 {% block content %}
5 <h2>Search Results</h2>
6
7 {% if books %}
8 <ul>
9     {% for book in books %}
10         <li><strong>{{ book.title }}</strong> - {{ book.author }}</li>
11     {% endfor %}
12 </ul>
13 {% else %}
14 <p>No books found matching your search criteria.</p>
15 {% endif %}
16
17 <a href="{% url 'search_books' %}">Back to Search</a>
18 {% endblock content %}
```

The Terminal panel at the bottom shows the following output:

```
[15/Mar/2025 12:19:42] "GET /favicon.ico HTTP/1.1" 404 2657
[15/Mar/2025 12:20:27] "POST /books/search/ HTTP/1.1" 200 905
[15/Mar/2025 12:20:37] "GET /books/search/ HTTP/1.1" 200 1799
[15/Mar/2025 12:21:10] "POST /books/search/ HTTP/1.1" 200 905
[15/Mar/2025 12:21:23] "GET /books/search/ HTTP/1.1" 200 1799
```

The screenshot shows the VS Code editor with the Django project 'DjangoProjects' open. The Explorer panel on the left shows the project structure, including 'libraryproject', 'apps', 'bookmodule', and 'static'. The 'urls.py' file is selected in the Explorer and is also open in the Editor. The code in 'urls.py' is as follows:

```
1 from django.urls import path
2 from . import views
3 from apps.bookmodule import views
4
5 urlpatterns = [
6     path('', views.index, name="books.index"),
7     path('list_books/', views.list_books, name="books.list_books"),
8     path('<int:bookId>', views.viewbook, name="books.one_book"),
9     path('aboutus/', views.aboutus, name="books.aboutus"),
10    path('html5/links', views.links, name='book.links'),
11    path('html5/text/formatting', views.text_formatting, name='text_formatting'),
12    path('html5/listing', views.listing, name='listing'),
13    path('html5/tables', views.tables, name='tables'),
14    path('search/', views.search_books, name='search_books'),
15 ]
```

The Terminal panel at the bottom shows the following output:

```
March 15, 2025 - 12:24:23
Django version 5.1.6, using settings 'libraryproject.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

The screenshot shows a Visual Studio Code editor with a Django project named 'libraryproject'. The Explorer sidebar on the left shows the project structure, including files like 'urls.py', 'views.py', 'bookList.html', and 'search.html'. The main editor displays the code for 'views.py', specifically the 'search_books' function. The terminal at the bottom shows the Django development server running on 'http://127.0.0.1:8000/'.

```

libraryproject > apps > bookmodule > views.py > index
14 def viewbook(request, bookId):
15     return render(request, 'bookmodule/one_book.html')
16 def search_books(request):
17     if request.method == "POST":
18         string = request.POST.get('keyword').lower()
19         isTitle = request.POST.get('option1')
20         isAuthor = request.POST.get('option2')
21         # now filter
22         books = __getBooksList()
23         newBooks = []
24         for item in books:
25             contained = False
26             if isTitle and string in item['title'].lower(): contained = True
27             if not contained and isAuthor and string in item['author'].lower(): contained = True
28             if contained: newBooks.append(item)
29         return render(request, 'bookmodule/bookList.html', {'books':newBooks})
30
31
32     return render(request, 'bookmodule/search.html')
33 def __getBooksList():
34     book1 = {'id':12344321, 'title':'Continuous Delivery', 'author':'J.Humble and D. Farley'}
35     book2 = {'id':23456789, 'title':'Building a Resilient System', 'author':'J.Humble and D. Farley'}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

March 15, 2025 - 12:24:23
Django version 5.1.6, using settings 'libraryproject.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

main* 0 7 Live Share Safinat35 (2 weeks ago) Ln 6, Col 4 Spaces: 3 UTF-8 CRLF Python 3.13.1 (.venv: venv) Go Live Prettier