

Task 1

The screenshot shows the Visual Studio Code interface with the following details:

- EXPLORER** sidebar: Shows the project structure under CS471, including djangoenv, libraryproject, bookmodule, static, templates, and libraryproject.
- CODE EDITOR**: The file urls.py is open, displaying the following Python code:

```
1 from django.urls import path
2 from . import views
3 urlpatterns = [
4     path('', views.index, name="books.index"),
5     path('list_books/', views.list_books, name="books.list_books"),
6     path('<int:bookId>', views.viewbook, name="books.view_one_book"),
7     path('aboutus/', views.aboutus, name="books.aboutus"),
8     path('search/', views.search_books, name='books.search'),
9 ]
```

Below the code editor, the status bar shows: zrasha12 (3 weeks ago) Ln 9, Col 1 Spaces: 4 UTF-8 LF {} Python 3.13.0 ('djangoenv': venv)



EXPLORER

- CS471
- djangoenv
- libraryproject
 - apps
 - bookmodule
 - __init__.py
 - migrations
 - admin.py
 - apps.py
 - models.py
 - tests.py
 - urls.py
 - views.py
 - static
 - templates
 - bookmodule
 - aboutus.html
 - index.html
 - index2.html
 - list_books.html
 - one_book.html
 - search.html
 - show.html
 - includes
 - layouts
 - usermodule

OUTLINE

TIMELINE

main* ⌂ ⌂ 0 △ 0

Not Committed Yet Ln 34, Col 33 Spaces: 4 UTF-8 LF () Python 3.13.0 ('djangoenv': venv) ⌂

```

views.py M ● urls.py ... /libraryproject index.html M list_books.html D v ⌂ ...
djangoevn > libraryproject > apps > bookmodule > views.py > getBooksList
6     return render(request, "bookmodule/index2.html", {"val": val})
7
8     # assume that we have the following books somewhere (e.g. database)
9     book1 = {"id":123, "title": "Continuous Delivery", "author": "J. Humble and D. Farley", "year": 2010}
10    book2 = {"id":456, "title": "Secrets of Reverse Engineering", "author": "E. Schneide", "year": 2012}
11    targetBook = None
12
13    if book1['id'] == bookId: targetBook = book1
14    if book2['id'] == bookId: targetBook = book2
15
16    context = {'book':targetBook} # book is the variable name accessible by template
17    return render(request, "bookmodule/show.html", context)
18
19    f index(request):
20        return render(request, "bookmodule/index.html")
21
22    f list_books(request):
23        return render(request, 'bookmodule/list_books.html')
24
25    f viewbook(request, bookId):
26        return render(request, 'bookmodule/one_book.html')
27
28    f aboutus(request):
29        return render(request, 'bookmodule/aboutus.html')
30
31    f search_books(request):
32        return render(request, 'bookmodule/search.html')
33
34    f _getBooksList():
35        book1 = {"id":12344321, "title": "Continuous Delivery", "author": "J.Humble and D.Farley", "year": 2010}
36        book2 = {"id":56788765, "title": "Reversing: Secrets of Reverse Engineering", "author": "E.Schneide", "year": 2012}
37        book3 = {"id":43211234, "title": "The Hundred-Page Machine Learning Book", "author": "A. Agresti", "year": 2018}
38
39        return [book1, book2, book3]

```

EXPLORER

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OUTLINE

TIMELINE

main* ⌂ ⌂ 0 △ 0

Ln 22, Col 23 Spaces: 4 UTF-8 LF ()

Task 2

index.html M list_books.html U one_book.html U aboutus.html U bookList.html

```

index.html M ● list_books.html U ● one_book.html U ● aboutus.html U ● bookList.html
djangoevn > libraryproject > apps > templates > bookmodule > bookList.html > ...
1  {% extends "layouts/base.html" %}
2  {% load static %}
3
4  {% block title %} Search Results {% endblock title %}
5
6  {% block content %}
7  <h1>Search Results</h1>
8  {% if books %}
9
10   <ul>
11     {% for book in books %}
12       <li>
13         <strong>Title:</strong> {{ book.title }} <br>
14         <strong>Author:</strong> {{ book.author }} <br>
15         <strong>ID:</strong> {{ book.id }}
16     {% endfor %}
17   </ul>
18  {% else %}
19  <p>No books found matching your search criteria.</p>
20  {% endif %}
21  <a href="{% url 'search_books' %}">Back to Search</a>
22  {% endblock content %}

```

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OUTLINE

TIMELINE

main* ⌂ ⌂ 0 △ 0

Ln 25, Col 15 Spaces: 4 UTF-8 LF () HTML ⌂

one_book.html U aboutus.html U base.html U search.html U

```

one_book.html U ● aboutus.html U ● base.html U ● search.html U X h ⌂ ...
djangoevn > libraryproject > apps > templates > bookmodule > search.html > style > button:hover
1  {% extends "layouts/base.html" %}
2  {% load static %}
3
4  {% block title %} Searching Page {% endblock title %}
5  {% block stylesheets %}
6
7      <style>
8          .searchForm{
9              margin-top: 20px;
10
11         button {
12             color: black;
13             background-color: #17a2b8;
14             border-color: #17a2b8;
15             border: none;
16             padding: 16px 32px;
17             text-align: center;
18             text-decoration: none;
19             display: inline-block;
20             font-size: 16px;
21             margin: 4px 2px;
22             transition-duration: 0.4s;
23             cursor: pointer; /* hand pointer */
24         }
25         button:hover {
26             background-color: green;
27             color: white;
28         }
29
30     </style>
31  {% endblock stylesheets %}
32
33  {% block content %}
34      <form class="searchForm" method="post" action="">
35          {% csrf_token %}
36          <label>Keywords:</label>
37          <input type="text" name="keyword" placeholder="enter a keyword"/>
38      </form>

```

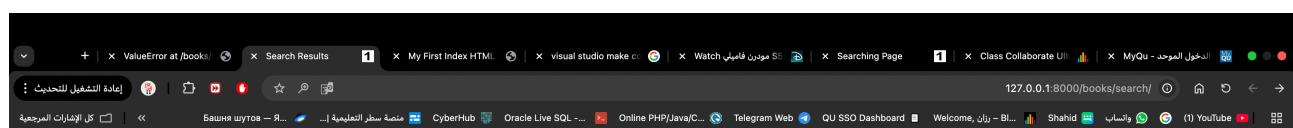
The screenshot shows a code editor interface with several tabs open. On the left is the file explorer showing a project structure with files like `models.py`, `tests.py`, `urls.py`, and `views.py`. The main editor area contains Python code for a search function:

```

30 def __getBooksList():
31     books = [
32         {
33             "id": 10143211234,
34             "title": "The Hundred-Page Machine Learning Book",
35             "author": "Andriy Burkov"
36         }
37     ]
38     return [book1, book2, book3]
39
40 def search_books(request):
41     if request.method == "POST":
42         # Retrieve form data
43         keyword = request.POST.get('keyword', '').lower()
44         isTitle = request.POST.get('option1') == 'on' # Check if checkbox is checked
45         isAuthor = request.POST.get('option2') == 'on' # Check if checkbox is checked
46
47         # Get the list of books
48         books = __getBooksList()
49         filtered_books = []
50
51         # Filter books based on search criteria
52         for book in books:
53             match = False
54             if isTitle and keyword in book['title'].lower():
55                 match = True
56             if not match and isAuthor and keyword in book['author'].lower():
57                 match = True
58
59             if match:
60                 filtered_books.append(book)
61
62         # Render the results in a new template
63         return render(request, 'bookmodule/bookList.html', {'books': filtered_books})
64
65     # If it's not a POST request, just render the form
66     return render(request, 'bookmodule/search.html')

```

At the bottom, status information includes: Not Committed Yet, Ln 62, Col 53, Spaces: 4, UTF-8, LF, Python 3.13.0.



Home List Books About

Search Results

- Title:** The Hundred-Page Machine Learning Book
- Author:** Andriy Burkov
- ID:** 43211234

[Back to Search](#)