This lab session covers the basics of Django Models (Part 1). By the end of this session, students should have a very good understanding of how to build a basic model and how to access models in Django.

Pre-lab Preparation:

1. Having bookmodule and usermodule in apps directory, with necessary configurations in settings.py.

Lab Activities:

Task 1 & Task 2:

Using Django Shell

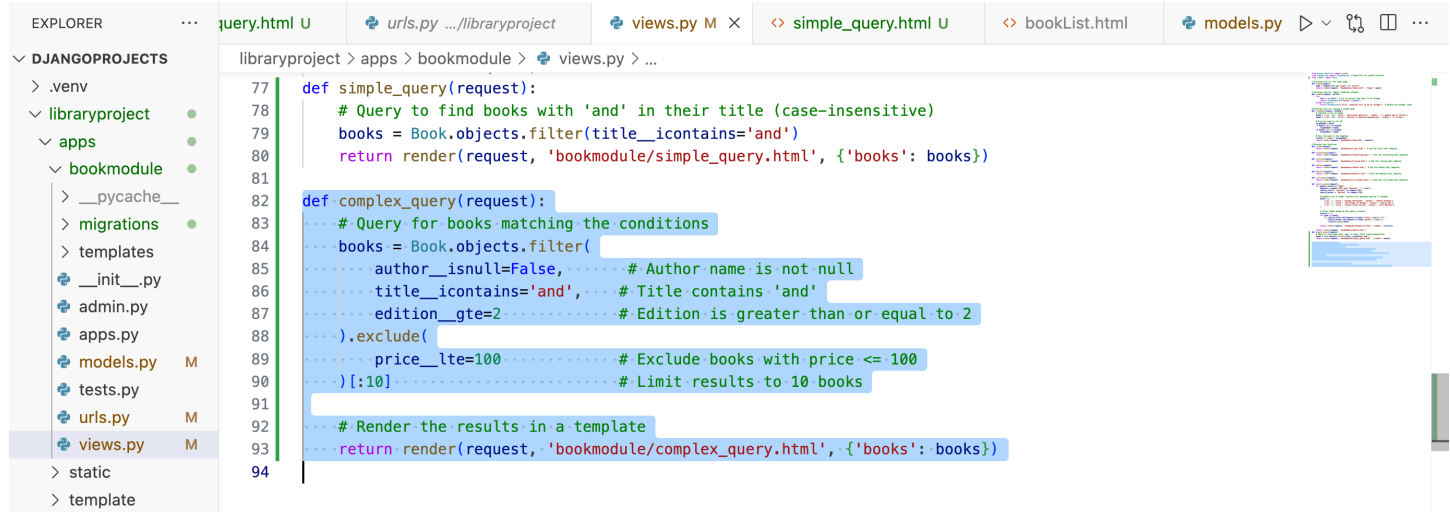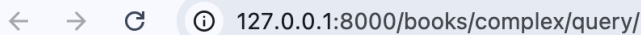### Task 3:

Home List Books About

Books with "and" in the Title

- ID: 4 | Title: Handbook of Django | Author: John Doe | Price: 75.0 | Edition: 2

Task 4: Customize queries using common lookup conditions and keywords.

```python
77  def simple_query(request):
78      # Query to find books with 'and' in their title (case-insensitive)
79      books = Book.objects.filter(title__icontains='and')
80      return render(request, 'bookmodule/simple_query.html', {'books': books})
81
82  def complex_query(request):
83      # Query for books matching the conditions
84      books = Book.objects.filter(
85          author__isnull=False,        # Author name is not null
86          title__icontains='and',      # Title contains 'and'
87          edition__gte=2               # Edition is greater than or equal to 2
88      ).exclude(
89          price__lte=100               # Exclude books with price <= 100
90      )[:10]                           # Limit results to 10 books
91
92      # Render the results in a template
93      return render(request, 'bookmodule/complex_query.html', {'books': books})
94
```

127.0.0.1:8000/books/complex/query/

Home List Books About

Complex Query Results

- ID: 6 | Title: Handbook of Django | Author: Django Guru | Price: 200.0 | Edition: 2
- ID: 7 | Title: Understanding APIs | Author: Jane Smith | Price: 300.0 | Edition: 3

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