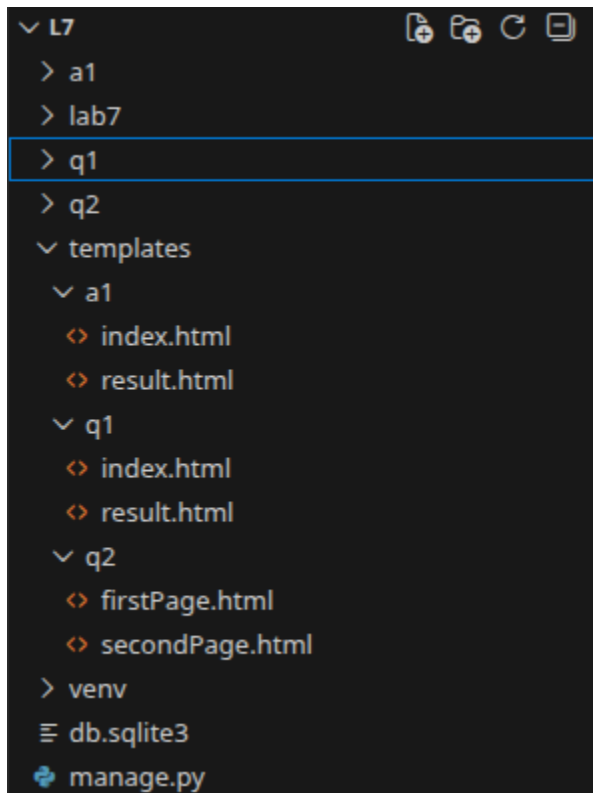# Lab 7 - Form Processing using Django – Part I

Home Assignment

Settings.py:

```
INSTALLED_APPS = [
'django.contrib.admin',
'django.contrib.auth',
'django.contrib.contenttypes',
'django.contrib.sessions',
'django.contrib.messages',
'django.contrib.staticfiles',
'q1',
'q2',
'a1',
]
```

Urls.py:

```
from django.contrib import admin
from django.urls import path, include


urlpatterns = [
```

```
path('admin/', admin.site.urls),
path('q1/', include('q1.urls')),
path('q2/', include('q2.urls')),
path('a1/', include('a1.urls')),
]
```

A1 Codes:

Index.html:

```html
<!DOCTYPE html>
<html>
<head>
<title>Grocery Checklist</title>
<style>
form { margin: 20px; }
ul { list-style-type: none; }
button { padding: 10px 20px; }
</style>
</head>
<body>
<h2>Grocery Checklist</h2>
<form method="POST" action="{% url 'a1_add' %}">
{% csrf_token %}
{{ form.as_ul }}
<button type="submit">Add Item</button>
</form>
</body>
</html>
```

Result.html:

```html
<!DOCTYPE html>
<html>
<head>
<title>Selected Items</title>
<style>
table {
border: 2px solid black;
border-collapse: collapse;
}
table th, table td {
border: 2px solid black;
padding: 8px;
}
</style>
```

```html
</head>
<body>
<h2>Selected Items</h2>
<table>
<tr>
<th>Item Name</th>
<th>Price (Rs.)</th>
</tr>
{% for item in items %}
<tr>
<td>{{ item.name }}</td>
<td>{{ item.price }}</td>
</tr>
{% endfor %}
</table>
<br>
<a href="{% url 'a1_index' %}">Go Back</a>
</body>
</html>
```

Forms.py:

```python
from django import forms

class GroceryForm(forms.Form):
ITEM_CHOICES = [
(1, 'Milk - Rs. 50'),
(2, 'Bread - Rs. 30'),
(3, 'Eggs - Rs. 60'),
(4, 'Butter - Rs. 100'),
(5, 'Cheese - Rs. 150'),
(6, 'Apple - Rs. 80'),
]
items = forms.MultipleChoiceField(
choices=ITEM_CHOICES,
widget=forms.CheckboxSelectMultiple()
)
```

Urls.py:

```python
from django.urls import path
from . import views

urlpatterns = [
path('', views.index, name='a1_index'),
path('add/', views.add_items, name='a1_add'),
]
```

Views.py:

```python
from django.shortcuts import render
from .forms import GroceryForm

GROCERY_ITEMS = {
'1': {'name': 'Milk', 'price': 50},
'2': {'name': 'Bread', 'price': 30},
'3': {'name': 'Eggs', 'price': 60},
'4': {'name': 'Butter', 'price': 100},
'5': {'name': 'Cheese', 'price': 150},
'6': {'name': 'Apple', 'price': 80},
}

def index(request):
form = GroceryForm()
return render(request, 'a1/index.html', {'form': form})

def add_items(request):
if request.method == 'POST':
form = GroceryForm(request.POST)
if form.is_valid():
selected_ids = form.cleaned_data['items']
selected_items = [{'name': GROCERY_ITEMS[id]['name'], 'price': GROCERY_ITEMS[id]['price']} for id in
selected_ids]
return render(request, 'a1/result.html', {'items': selected_items})
form = GroceryForm()
return render(request, 'a1/index.html', {'form': form})
```

Screenshots:

Selected Items

Item Name	Price (Rs.)
Milk	50
Eggs	60
Apple	80

[Go Back](#)

Grocery Checklist

- Items:
  - ☑ Milk - Rs. 50
  - ☐ Bread - Rs. 30
  - ☑ Eggs - Rs. 60
  - ☐ Butter - Rs. 100
  - ☐ Cheese - Rs. 150
  - ☑ Apple - Rs. 80

  Add Item