

WP LAB 7– Form processing using Django – Part 1

Name: Pranamya G Kulal

Class: CSE A

Reg no: 220905018

Roll no: 8

Q1) Develop a Web Application for Grocery Checklist Generation as shown in the figure below. It must have checkboxes which must be populated on page load listing grocery items. On clicking the Add Item button the selected Items and their prices have to be displayed in a Table. Set the borderstyle and border width for the table and its cells.

i) settings.py

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

ii) grocery_project/urls.py

```
from django.contrib import admin  
from django.urls import path, include  
  
urlpatterns = [  
    path('admin/', admin.site.urls),  
    path("", include('checklist.urls')),  
]
```

iii) checklist/urls.py

```
from django.urls import path  
from . import views  
  
urlpatterns = [  
    path("", views.grocery_checklist, name='grocery_checklist'),  
]
```

iv) views.py

```
from django.shortcuts import render  
  
# Dummy list of grocery items and their prices  
grocery_items = [  
    {"name": "Apple", "price": 1.5},  
    {"name": "Banana", "price": 0.8},  
    {"name": "Carrot", "price": 1.2},  
    {"name": "Potato", "price": 0.5},  
    {"name": "Tomato", "price": 1.0},  
]
```

```

def grocery_checklist(request):
    if request.method == "POST":
        # Get selected items from the form
        selected_items = request.POST.getlist('items')
        selected_items_data = []

        # Find the corresponding item data
        for item in grocery_items:
            if item['name'] in selected_items:
                selected_items_data.append(item)

        return render(request, 'checklist/grocery_checklist.html', {
            'grocery_items': grocery_items,
            'selected_items': selected_items_data
        })
    return render(request, 'checklist/grocery_checklist.html', {
        'grocery_items': grocery_items,
        'selected_items': []
    })

```

v) grocery_checklist.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Grocery Checklist</title>
    <style>
        table {
            border: 2px solid black;
            border-collapse: collapse;
            width: 100%;
        }
        th, td {
            padding: 8px;
            text-align: left;
            border: 1px solid black;
        }
        input[type="checkbox"] {
            margin-right: 5px;
        }
    </style>
</head>
<body>
    <h1>Grocery Checklist</h1>

    <form method="POST">
        {% csrf_token %}
        <h3>Select Items:</h3>
        {% for item in grocery_items %}
            <input type="checkbox" name="items" value="{{ item.name }}"> {{ item.name }} - $
            {{ item.price }}<br>

```

```
{% endfor %}
<br>
<button type="submit">Add Item</button>
</form>

{% if selected_items %}
<h3>Selected Items:</h3>
<table>
  <thead>
    <tr>
      <th>Item</th>
      <th>Price</th>
    </tr>
  </thead>
  <tbody>
    {% for item in selected_items %}
      <tr>
        <td>{{ item.name }}</td>
        <td>${{ item.price }}</td>
      </tr>
    {% endfor %}
  </tbody>
</table>
{% endif %}
</body>
</html>
```

vi) Screenshots

Grocery Checklist

Select Items:

- ☐ Apple - \$1.5
- ☒ Banana - \$0.8
- ☒ Carrot - \$1.2
- ☒ Potato - \$0.5
- ☐ Tomato - \$1.0

Add Item

Grocery Checklist

Select Items:

- ☐ Apple - \$1.5
- ☐ Banana - \$0.8
- ☐ Carrot - \$1.2
- ☐ Potato - \$0.5
- ☐ Tomato - \$1.0

Add Item

Selected Items:

Item	Price
Banana	\$0.8
Carrot	\$1.2
Potato	\$0.5