Week 8 Homework

Q. 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.

**grocery\_checklist/urls.py**

from django.urls import path

from . import views

urlpatterns = [

path('', views.index, name='index'), # Main page for the checklist

]

**grocery\_checklist/views.py**

from django.shortcuts import render

def index(request):

# List of grocery items with prices

grocery\_items = [

{'name': 'Wheat', 'price': 40},

{'name': 'Jaggery', 'price': 70},

{'name': 'Dal', 'price': 80},

]

# Handle form submission (POST request)

if request.method == 'POST':

selected\_items = []

for item in grocery\_items:

# If the checkbox for an item is checked (item.name is in POST data)

if request.POST.get(item['name']):

selected\_items.append(item)

return render(request, 'grocery\_checklist/index.html', {

'grocery\_items': grocery\_items,

'selected\_items': selected\_items,

})

return render(request, 'grocery\_checklist/index.html', {

'grocery\_items': grocery\_items,

'selected\_items': [],

})

**grocery\_checklist/templates/grocery\_checklist/index.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: 60%;

margin-top: 20px;

}

th, td {

border: 2px solid black;

padding: 10px;

text-align: left;

}

th {

background-color: #f2f2f2;

}

</style>

</head>

<body>

<h1>Grocery Checklist</h1>

<!-- Form to select grocery items -->

<form method="POST">

{% csrf\_token %}

<div>

{% for item in grocery\_items %}

<input type="checkbox" name="{{ item.name }}" id="{{ item.name }}">

<label for="{{ item.name }}">{{ item.name }}</label><br>

{% endfor %}

</div>

<br>

<button type="submit">Add Item</button>

</form>

{% if selected\_items %}

<h2>Selected Items</h2>

<table>

<tr>

<th>Item</th>

<th>Price</th>

</tr>

{% for item in selected\_items %}

<tr>

<td>{{ item.name }}</td>

<td>${{ item.price }}</td>

</tr>

{% endfor %}

</table>

{% endif %}

</body>

</html>

**Output:**

