Lab No: 7 Form Processing using Django – Part I

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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.

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

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('grocery_app.urls')), # Add this
]
```

```
Lab 7 > grocery_project > grocery_app >  urls.py > ...

1  from django.urls import path
2  from . import views
3
4  urlpatterns = [
5  path('', views.grocery_list, name='grocery_list'),
6  ]
7
```

```
Lab 7 > grocery_project > grocery_app > ♥ views.py > ...
      from django.shortcuts import render, redirect
      from .forms import GroceryForm
      # Prices of the grocery items
      PRICES = {
          "Rice": 50,
          "Flour": 40,
          "Milk": 30,
          "Eggs": 5,
          "Fruits": 100,
      def grocery_list(request):
          form = GroceryForm()
          if 'cart' not in request.session:
              request.session['cart'] = [] # Initialize session cart
          cart = request.session.get('cart', []) # Retrieve cart
          if request.method == "POST":
               form = GroceryForm(request.POST)
               if form.is_valid():
                  selected_items = form.cleaned_data['items']
                   cart = [{"name": item, "price": PRICES[item]} for item in selected_items]
                   request.session['cart'] = cart # Store in session
                   return redirect('grocery_list')
          total_price = sum(item["price"] for item in cart) # Calculate total cost
          return render(request, "grocery_app/grocery.html", {
               "form": form,
               "cart": cart,
               "total_price": total_price,
 36
```

```
<!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>
        body {
            font-family: Arial, sans-serif;
            background-color: #f8f9fa;
            margin: 20px;
            text-align: center;
        }
        .container {
            max-width: 500px;
            margin: auto;
            padding: 20px;
            background: white;
```

```
border-radius: 10px;
            box-shadow: 0px 4px 8px rgba(0,0,0,0.1);
        h1 {
            color: #343a40;
        }
        form {
            text-align: left;
        input[type="checkbox"] {
            margin-right: 10px;
        button {
            background: #007bff;
            color: white;
            padding: 10px;
            border: none;
            border-radius: 5px;
            cursor: pointer;
        button:hover {
            background: #0056b3;
        table {
           width: 100%;
            margin-top: 20px;
            border-collapse: collapse;
        table, th, td {
            border: 2px solid #343a40;
            padding: 10px;
            text-align: left;
        th {
            background: #343a40;
            color: white;
        .total {
            font-size: 1.2rem;
            font-weight: bold;
           margin-top: 10px;
    </style>
</head>
<body>
    <div class="container">
       <h1>Grocery Checklist</h1>
```

```
<form method="post">
         {% csrf_token %}
         {{ form.as_p }}
         <button type="submit">Add Item</button>
      </form>
      {% if cart %}
         Item
            Price (₹)
         {% for item in cart %}
            {{ item.name }}
            {{ item.price }}
         {% endfor %}
      Total Price: ₹{{ total_price }}
      {% endif %}
   </div>
</body>
```

Grocery Checklist

Select Grocery Items:

- □ Rice ₹50/kg
- ☐ Flour ₹40/kg☐ Milk ₹30/litre
- ☐ Eggs ₹5 each
- ☐ Fruits ₹100/kg

Add Item

Item	Price (₹)
Rice	50
Milk	30
Eggs	5

Total Price: ₹85