

LAB 7 (Home Assignment)

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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.

CODE:

q1/settings.py

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

q1/urls.py

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

grocery/views.py

```
from django.shortcuts import render  
from .models import GroceryItem
```

```
def grocery_list(request):  
    items = GroceryItem.objects.all()  
    return render(request, 'grocery_list.html', {'items': items})
```

grocery/urls.py

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

grocery/templates/grocery_list.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 {  
            width: 50%;  
            border-collapse: collapse;  
            border: 2px solid black;  
        }  
        th, td {  
            border: 1px solid black;  
            padding: 8px;  
            text-align: left;  
        }  
    </style>  
</head>  
<body>  
    <h2>Grocery Checklist</h2>  
    <form id="groceryForm">  
        {% for item in items %}
```

```

<label>

    <input type="checkbox" name="grocery" value="{{ item.name }}|{{ item.price }}">

    {{ item.name }} - ${{ item.price }}

</label>

<br>

{% empty %}

    <p>No grocery items found. Please add items in the admin panel.</p>

{% endfor %}

<br>

<button type="button" onclick="addItems()">Add Item</button>

</form>

<h2>Selected Items</h2>

<table id="groceryTable">

    <tr>

        <th>Item</th>

        <th>Price</th>

    </tr>

</table>

<script>

function addItems() {

    let checkboxes = document.querySelectorAll('input[name="grocery"]:checked');

    let table = document.getElementById('groceryTable');

    checkboxes.forEach(checkbox => {

        let [name, price] = checkbox.value.split("|");

        let row = table.insertRow();

        let cell1 = row.insertCell(0);

        let cell2 = row.insertCell(1);

        cell1.innerHTML = name;

        cell2.innerHTML = "$" + price;

    });

}

</script>

</body>

</html>

```

OUTPUT:

Grocery Checklist

- ☐ Milk - \$20.00
- ☐ Wheat - \$40.00
- ☐ Dal - \$80.00
- ☐ Jaggery - \$50.00
- ☐ Rice - \$50.00

Add Item

Selected Items

Item	Price
------	-------

Grocery Checklist

- ☒ Milk - \$20.00
- ☐ Wheat - \$40.00
- ☒ Dal - \$80.00
- ☐ Jaggery - \$50.00
- ☐ Rice - \$50.00

Add Item

Selected Items

Item	Price
Milk	\$20.00
Dal	\$80.00