

Homework Assignment week9

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Q1 code

Urls.py

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

urlpatterns = [
    path('admin/', admin.site.urls),
    path("", include('cgpaapp.urls')), # Include the app's URLs
]
```

Urls.py

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

urlpatterns = [
    path("", views.index, name='index'),
    path('calculate/', views.calculate, name='calculate'),
    path('result/', views.result, name='result'),
]
```

Views.py

```
from django.shortcuts import render, redirect

def index(request):
    return render(request, 'index.html')
```

```

def calculate(request):
    if request.method == "POST":
        name = request.POST.get('name')
        total_marks = request.POST.get('total_marks')

        if name and total_marks.isdigit():
            cgpa = int(total_marks) / 50

            # Store in session
            request.session['name'] = name
            request.session['cgpa'] = cgpa

        return redirect('result')

    return redirect('index')

def result(request):
    name = request.session.get('name', 'Student')
    cgpa = request.session.get('cgpa', 0)

    return render(request, 'cgpaapp/result.html', {'name': name, 'cgpa': cgpa})

```

Result.html

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>CGPA Result</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
<style>
body {
background-color: #121212;
color: white;
font-family: Arial, sans-serif;
}

```

```

.container {
max-width: 400px;
margin-top: 10%;
padding: 20px;
background: #1e1e1e;
border-radius: 10px;
box-shadow: 0px 0px 10px rgba(255, 255, 255, 0.2);
}
h2 {
color: #ffcc00;
}
.btn-custom {
background-color: #ffcc00;
color: black;
border-radius: 5px;
}
</style>
</head>
<body>
<div class="container text-center">
<h2>Welcome {{ name }}</h2>
<p>Your CGPA is: <strong>{{ cgpa }}</strong></p>
<a href="{% url 'index' %}" class="btn btn-custom">Go Back</a>
</div>
</body>
</html>

```

Index.html

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>CGPA Calculator</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
<style>
body {
background-color: #121212;
color: white;

```

```
font-family: Arial, sans-serif;
}
.container {
max-width: 400px;
margin-top: 10%;
padding: 20px;
background: #1e1e1e;
border-radius: 10px;
box-shadow: 0px 0px 10px rgba(255, 255, 255, 0.2);
}
input, button {
border-radius: 5px !important;
}
</style>
</head>
<body>
<div class="container text-center">
<h2>CGPA Calculator</h2>
<form action="{% url 'calculate' %}" method="POST">
{% csrf_token %}
<div class="mb-3 text-start">
<label class="form-label">Name:</label>
<input type="text" name="name" class="form-control" required>
</div>
<div class="mb-3 text-start">
<label class="form-label">Total Marks:</label>
<input type="number" name="total_marks" class="form-control" required>
</div>
<button type="submit" class="btn btn-primary w-100">Calculate</button>
</form>
</div>
</body>
</html>
```