1) Create a Register page and Success page with the following requirements:

views.py

from django.shortcuts import render, redirect

from django.http import HttpResponseRedirect

from django.urls import reverse

from .forms import RegisterForm

from django.middleware.csrf import get\_token

def register(request):

if request.method == 'POST':

form = RegisterForm(request.POST)

if form.is\_valid():

username = form.cleaned\_data['username']

email = form.cleaned\_data['email']

contact\_number = form.cleaned\_data['contact\_number']

# Use reverse to get the URL for the success page and append query parameters

success\_url = reverse('success')

return HttpResponseRedirect(f"{success\_url}?username={username}&email={email}&contact\_number={contact\_number}")

else:

form = RegisterForm()

csrf\_token = get\_token(request)

return render(request, 'register\_app/register.html', {'form': form, 'csrf\_token': csrf\_token})

def success(request):

username = request.GET.get('username')

email = request.GET.get('email')

contact\_number = request.GET.get('contact\_number')

return render(request, 'register\_app/success.html', {'username': username, 'email': email, 'contact\_number': contact\_number})

urls.py

from django.contrib import admin

from django.urls import path

from register\_app import views

urlpatterns = [

path('admin/', admin.site.urls),

path('', views.register, name='register'),

path('success/', views.success, name='success'),

]

register.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Register</title>

{% load static %}

<link rel="stylesheet" href="{% static 'css/styles.css' %}">

</head>

<body>

<div class="register-form">

<h2>Register</h2>

<form method="POST" action="">

{% csrf\_token %}

<input type="hidden" name="csrfmiddlewaretoken" value="{{ csrf\_token }}">

<label for="username">Username (Required):</label>

<input type="text" id="username" name="username" value="{{ form.username.value }}" required><br>

<label for="password">Password (Optional):</label>

<input type="password" id="password" name="password" value="{{ form.password.value }}"><br>

<label for="email">Email (Optional):</label>

<input type="email" id="email" name="email" value="{{ form.email.value }}"><br>

<label for="contact\_number">Contact Number (Optional):</label>

<input type="text" id="contact\_number" name="contact\_number" value="{{ form.contact\_number.value }}"><br>

<button type="submit">Submit</button>

</form>

</div>

</body>

</html>

success.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Success</title>

{% load static %}

<link rel="stylesheet" href="{% static 'css/styles.css' %}">

</head>

<body>

<div class="success-page">

<h2>Welcome, {{ username }}!</h2>

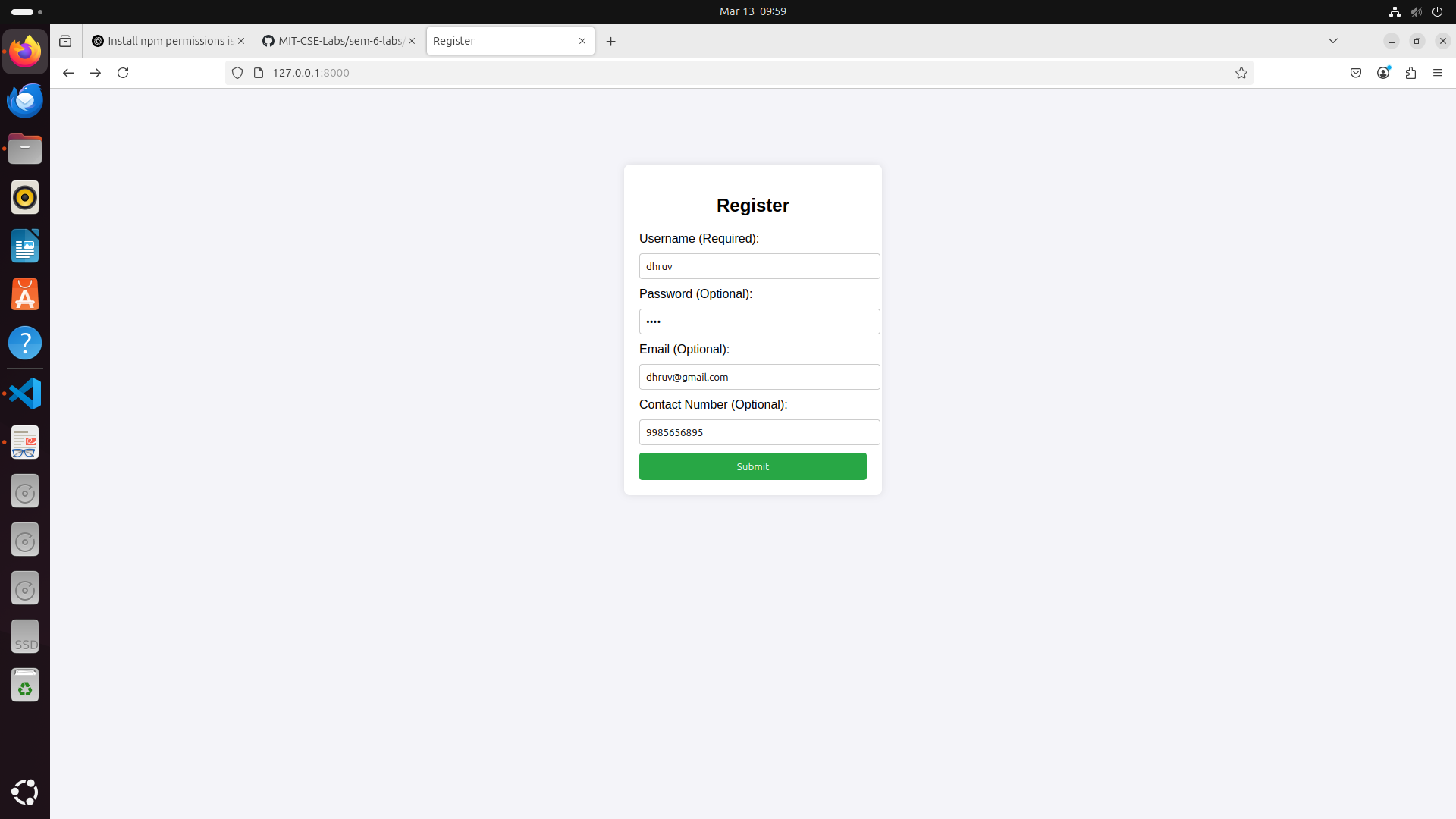
<p>Email: {{ email }}</p>

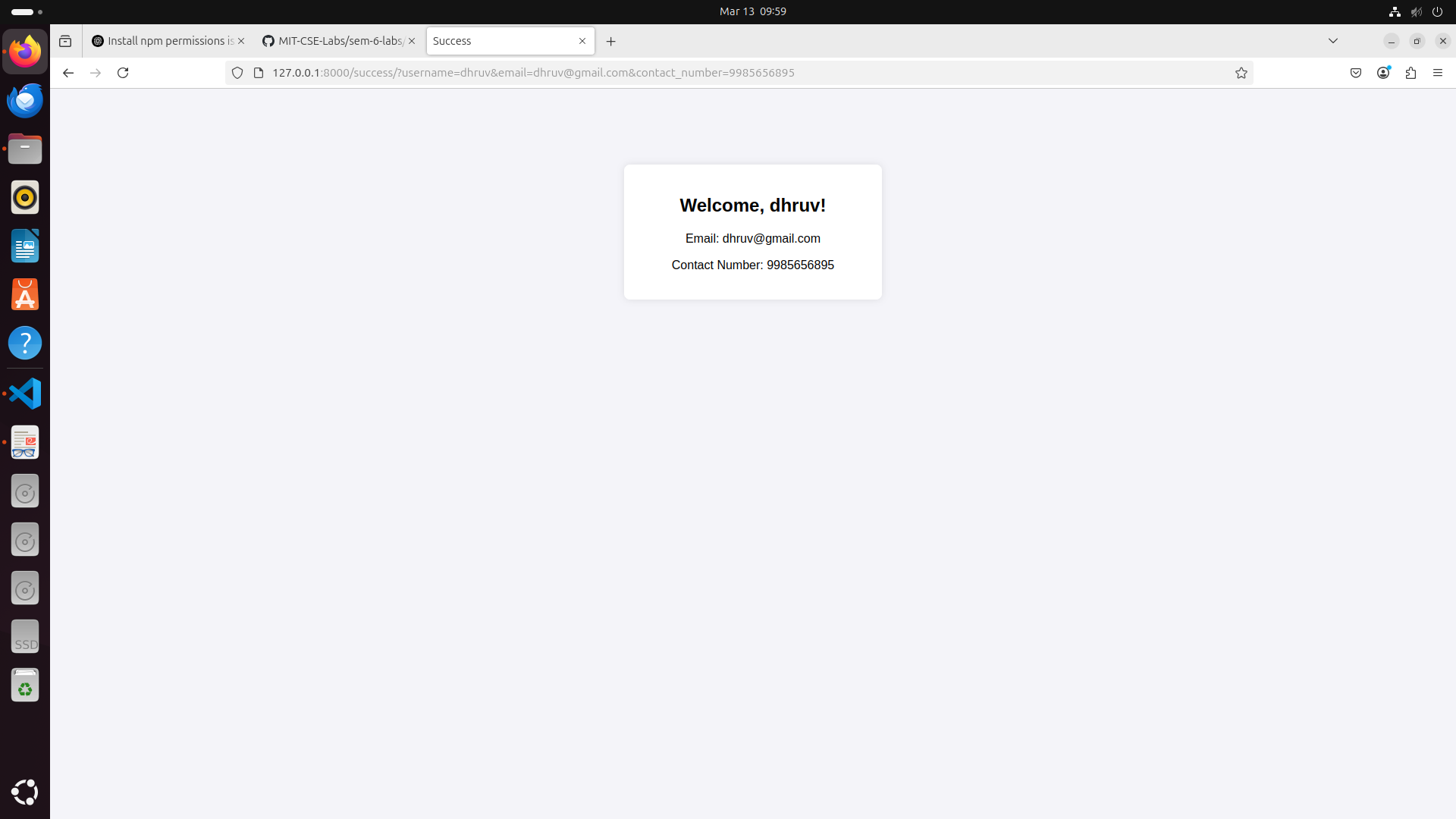
<p>Contact Number: {{ contact\_number }}</p>

</div>

</body>

</html>





q2) “How is the book ASP.NET with c# by Vipul Prakashan?” Give the user three choice : i) Good

ii) Satisfactory iii) Bad. Provide a VOTE button. After user votes, present the result in

percentage using labels next to the choices

views.py

from django.shortcuts import render, redirect

from .models import BookRating

def vote(request):

if request.method == 'POST':

selected\_rating = request.POST.get('rating')

if selected\_rating:

rating\_obj, created = BookRating.objects.get\_or\_create(rating=selected\_rating)

rating\_obj.count += 1

rating\_obj.save()

return redirect('results')

return render(request, 'ratings/vote.html')

def results(request):

ratings = BookRating.objects.all()

total\_votes = sum(rating.count for rating in ratings)

percentages = {rating.rating: (rating.count / total\_votes) \* 100 if total\_votes > 0 else 0 for rating in ratings}

return render(request, 'ratings/results.html', {'ratings': ratings, 'percentages': percentages})

urls.py

from django.contrib import admin

from django.urls import path

from . import views

urlpatterns = [

path('', views.vote, name='vote'),

path('results/', views.results, name='results'),

]

vote.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

{% load static %}

<link rel="stylesheet" href="{% static 'css/styles.css' %}">

<title>Vote for Book Rating</title>

</head>

<body>

<h1>Rate the book "ASP.NET with C# by Vipul Prakashan"</h1>

<form method="post">

{% csrf\_token %}

{% for choice in rating\_choices %}

<input type="radio" id="{{ choice.0 }}" name="rating" value="{{ choice.0 }}">

<label for="{{ choice.0 }}">{{ choice.1 }}</label><br>

{% endfor %}

<button type="submit">Vote</button>

</form>

<a href="{% url 'results' %}">View Results</a>

</body>

</html>

results.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

{% load static %}

<link rel="stylesheet" href="{% static 'css/styles.css' %}">

<title>Voting Results</title>

</head>

<body>

<h1>Voting Results</h1>

<ul>

{% for rating in ratings %}

<li>

{{ rating.rating }}: {{ rating.count }} votes ({{ percentages.rating.rating }}%)

</li>

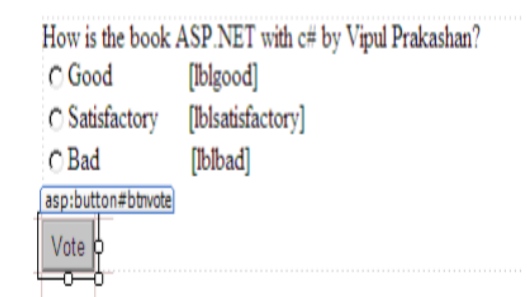
{% endfor %}

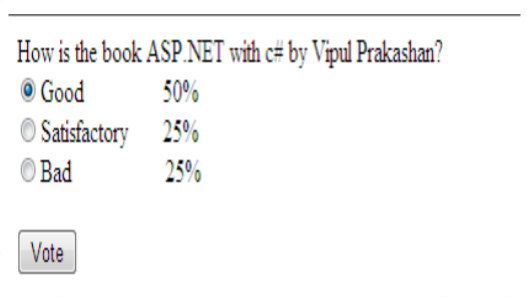
</ul>

<a href="{% url 'vote' %}">Back to Voting</a>

</body>

</html>



q3) Create a website with two pages. Page 1 has two TextBoxes (name and total marks)

and one ‘Calculate’ Button as shown in the figure. On clicking the ‘Calculate’ Button,

CGPA (total marks/50) along with the name should be displayed in the Page 2. Use

Django sessions to store the information.

Views.py

from django.shortcuts import render, redirect

from django.http import HttpResponseRedirect

from django.urls import reverse

from .forms import RegisterForm

from django.middleware.csrf import get\_token

def register(request):

if request.method == 'POST':

form = RegisterForm(request.POST)

if form.is\_valid():

username = form.cleaned\_data['username']

email = form.cleaned\_data['email']

contact\_number = form.cleaned\_data['contact\_number']

# Use reverse to get the URL for the success page and append query parameters

success\_url = reverse('success')

return HttpResponseRedirect(f"{success\_url}?username={username}&email={email}&contact\_number={contact\_number}")

else:

form = RegisterForm()

csrf\_token = get\_token(request)

return render(request, 'register\_app/register.html', {'form': form, 'csrf\_token': csrf\_token})

def success(request):

username = request.GET.get('username')

email = request.GET.get('email')

contact\_number = request.GET.get('contact\_number')

return render(request, 'register\_app/success.html', {'username': username, 'email': email, 'contact\_number': int(contact\_number)/50})

urls.py

from django.contrib import admin

from django.urls import path

from register\_app import views

urlpatterns = [

path('admin/', admin.site.urls),

path('', views.register, name='register'),

path('success/', views.success, name='success'),

]

calculate.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Register</title>

{% load static %}

<link rel="stylesheet" href="{% static 'css/styles.css' %}">

</head>

<body>

<div class="register-form">

<h2>GPA Calculator</h2>

<form method="POST" action="">

{% csrf\_token %}

<input type="hidden" name="csrfmiddlewaretoken" value="{{ csrf\_token }}">

<label for="username">name (Required):</label>

<input type="text" id="username" name="username" value="{{ form.username.value }}" required><br>

<label for="contact\_number">marks:</label>

<input type="text" id="contact\_number" name="contact\_number" value="{{ form.contact\_number.value }}"><br>

<button type="submit">Calculate</button>

</form>

</div>

</body>

</html>

resulst.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Success</title>

{% load static %}

<link rel="stylesheet" href="{% static 'css/styles.css' %}">

</head>

<body>

<div class="success-page">

<h2>Welcome, {{ username }}!</h2>

<p>gpa: {{ contact\_number }}</p>

</div>

</body>

</html>

