LAB QUESTIONS
1) Create a Register page and Success page with the following requirements:
i.
Register page should contain four input TextBoxes for UserName, Password, Email id and Contact Number and also a button to submit. Make the username as compulsory field and other fields as optional.
ii.
On button click, Success page is displayed with message "Welcome {UserName}" and also his Email and Contact Number has to be displayed.
iii. Use secure technique to send details to the Success page (Hint: use csrftoken) 4) Design a website with two pages.

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Views.py:

```
from django.shortcuts import render

def register(request):
    if request.method == "POST":
        username = request.POST.get("username")
        password = request.POST.get("password")  # Not used further here but you can add validation if needed.
        email = request.POST.get("email")
        contact = request.POST.get("contact")

        # You may add further validation here

        context = {
            "username": username,
            "email": email,
            "contact": contact,
        }
        return render(request, "success.html", context)

    return render(request, "register.html")
```

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Register.html:

```
<!DOCTYPE html>
<html>
<head>
    <title>Register</title>
</head>
<body>
    <h2>Register</h2>
    <form method="POST">
        {% csrf_token %}
        <label for="username">Username (required):</label>
        <input type="text" id="username" name="username" required><br><br>
```

```
        <label for="password">Password:</label>
        <input type="password" id="password" name="password"><br><br>

        <label for="email">Email:</label>
        <input type="email" id="email" name="email"><br><br>

        <label for="contact">Contact Number:</label>
        <input type="text" id="contact" name="contact"><br><br>

        <button type="submit">Submit</button>
    </form>
</body>
</html>
```

==========

Success.html:

```
<!DOCTYPE html>
<html>
<head>
    <title>Success</title>
</head>
<body>
    <h2>Success</h2>
    <p>Welcome {{ username }}</p>
    {% if email %}
    <p>Email: {{ email }}</p>
    {% endif %}
    {% if contact %}
    <p>Contact Number: {{ contact }}</p>
    {% endif %}
</body>
</html>
```

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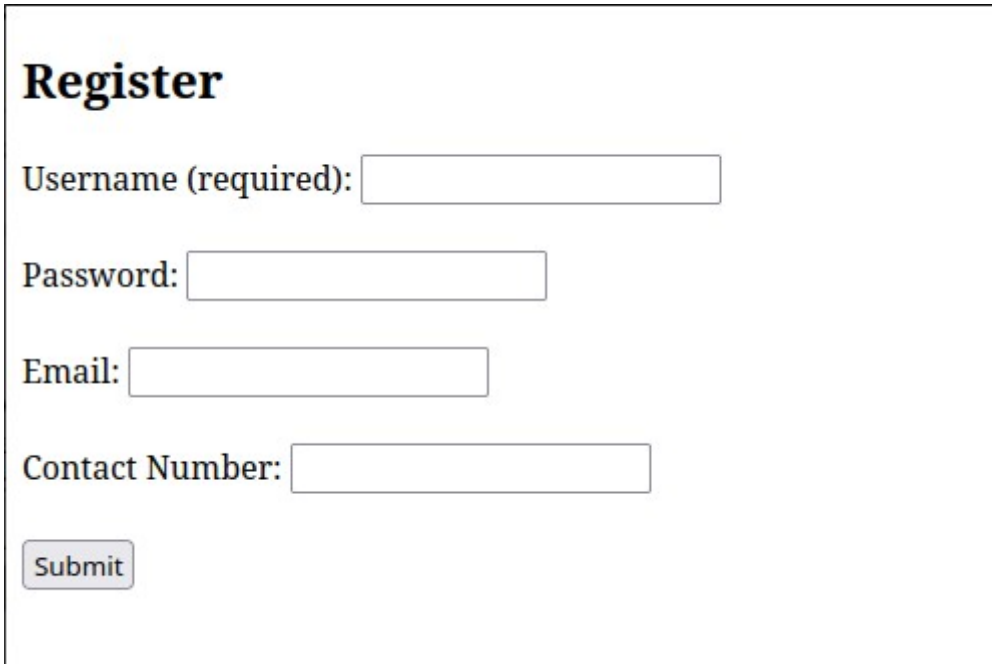
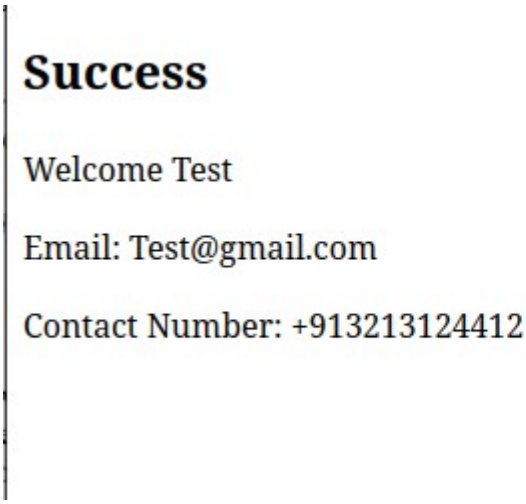
Output:





2) “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

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Views.py:

```
from django.shortcuts import render, redirect

def index(request):
    if request.method == 'POST':
        name = request.POST.get('name')
        marks = request.POST.get('marks')
```

```
        # Store data in session
        request.session['name'] = name
        request.session['marks'] = marks

        # Redirect to the result page
        return redirect('result')

    return render(request, 'index.html')


def result(request):
    # Retrieve from session
    name = request.session.get('name', '')
    marks = request.session.get('marks', '0')

    # Convert marks to float for calculation
    try:
        total_marks = float(marks)
    except ValueError:
        total_marks = 0.0

    cgpa = total_marks / 50

    context = {
        'name': name,
        'cgpa': cgpa,
    }
    return render(request, 'result.html', context)
```

==========

Index.html:

```
<!DOCTYPE html>
<html>
<head>
    <title>Calculate CGPA</title>
</head>
<body>
    <h2>Page 1</h2>
    <form method="POST">
        {% csrf_token %}
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required><br><br>

        <label for="marks">Total Marks:</label>
        <input type="number" id="marks" name="marks" required><br><br>

        <button type="submit">Calculate</button>
    </form>
</body>
</html>
```

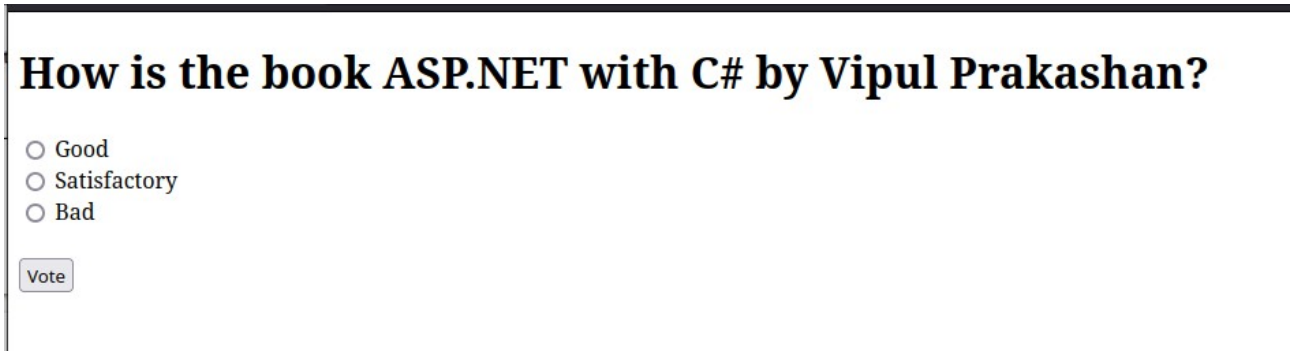
==========

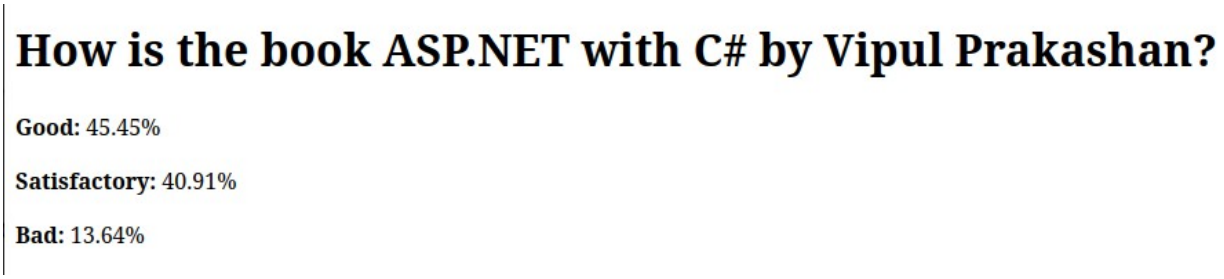
Results.html:

```
<!DOCTYPE html>
<html>
<head>
   <title>CGPA Result</title>
</head>
<body>
   <h2>Page 2</h2>
   <p>
      Welcome {{ name }} <br>
      Your CGPA is = {{ cgpa }}
   </p>
</body>
</html>
```

==========

Output:





3) 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.

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Views.py:

```
from django.shortcuts import render
```

```
# Global vote counters (in-memory; not persistent)
GOOD_COUNT = 0
SATISFACTORY_COUNT = 0
BAD_COUNT = 0

def vote_view(request):
    global GOOD_COUNT, SATISFACTORY_COUNT, BAD_COUNT

    if request.method == 'POST':
        choice = request.POST.get('choice')
        if choice == 'Good':
            GOOD_COUNT += 1
        elif choice == 'Satisfactory':
            SATISFACTORY_COUNT += 1
        elif choice == 'Bad':
            BAD_COUNT += 1

        total_votes = GOOD_COUNT + SATISFACTORY_COUNT + BAD_COUNT

        if total_votes == 0:
            good_pct = sat_pct = bad_pct = 0
        else:
            good_pct = (GOOD_COUNT / total_votes) * 100
            sat_pct = (SATISFACTORY_COUNT / total_votes) * 100
            bad_pct = (BAD_COUNT / total_votes) * 100

        context = {
            'show_results': True,
            'good_pct': good_pct,
            'sat_pct': sat_pct,
            'bad_pct': bad_pct,
        }
        return render(request, 'vote.html', context)

    # GET request: simply show the voting form
    return render(request, 'vote.html')
```

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Vote.html:

```
<!DOCTYPE html>
<html>
<head>
    <title>Book Voting</title>
</head>
<body>
    <h1>How is the book ASP.NET with C# by Vipul Prakashan?</h1>

    {% if show_results %}
        <p><strong>Good:</strong> {{ good_pct|floatformat:2 }}%</p>
        <p><strong>Satisfactory:</strong> {{ sat_pct|floatformat:2 }}%</p>
        <p><strong>Bad:</strong> {{ bad_pct|floatformat:2 }}%</p>
```

```
    {% else %}
        <form method="POST">
            {% csrf_token %}
            <label>
                <input type="radio" name="choice" value="Good">
                Good
            </label><br>
            <label>
                <input type="radio" name="choice" value="Satisfactory">
                Satisfactory
            </label><br>
            <label>
                <input type="radio" name="choice" value="Bad">
                Bad
            </label><br><br>
            <button type="submit">Vote</button>
        </form>
    {% endif %}
</body>
</html>
```

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Output: