

-->If we submit this form we will get 403 status code response
Forbidden (403)
CSRF verification failed. Request aborted.

Reason given for failure:
CSRF token missing.

CSRF(Cross Site Request Forgery) Token:

-->Every form should satisfy CSRF verification, otherwise Django wont accept our form.
-->It is meant for website security. Being a programmer we are not required to worry anything about this. Django will takes care everything.
-->But we have to add csrf_token in our form.

- **input.html**

```
<form method="post">
    {{form.as_p}}
    {% csrf_token %}
</form>
```

-->If we add csrf_token then in the generate form the following hidden filed will be added, which makes our post request secure.

```
<input type="hidden" name="csrfmiddlewaretoken" value="nbmbmnbmb">
```

The value of this field is keep on changing from request to request. hence it is impossible to forgery of our request.

If we configures csrf_token in html form then only django will accept our form.

How to process input data from the form inside views.py

Inside views.py, we have to read data provided by end user and we have to use that data based on our requirement.

```
form = StudentForm()--->empty form object to display form to the end user.
```

```
form = StudentForm(request.POST)-->This form object contains end user provided data.
```

cleaned_data-->dictionary which contains end user provided data.

cleaned_data['name']-->The name entered by end user

cleaned_data['marks']-->The marks entered by end user

form.is_valid()-->To check whether validations are successful or not.

Difference between GET & POST:

There are multiple ways to send GET request:

1. Typing URL in the address bar and enter.
2. Clicking on hyperlinks.
3. Submitting the HTML form without method attribute.
4. Submitting the HTML form with method attribute of GET value.

There is only one way to send POST request.

1. Submitting the HTML form with method attribute of POST value.

- **views.py**

```
def studentinput_view(request):
    submitted = False
    sname = ""
    if request.method == 'POST':
        form = StudentForm(request.POST)
        if form.is_valid():
            print('Form validation success and print data')
            print('Name:', form.cleaned_data['name'])
            print('RollNo:', form.cleaned_data['rollno'])
            print('Marks:', form.cleaned_data['marks'])
            submitted = True
            sname = form.cleaned_data['name']
        form = StudentForm()
    return render(request, 'testapp/input.html',
        {'form': form, 'submitted': submitted, 'sname': sname})
```

- **input.html**

```
<body>
<div class="container" align="center">
    {% if submitted %}
    <h1>Student with the name:{{sname}} processed successfully</h1>
    <h2>Enter next student information</h2>
```

```
{% else %}  
<h1>Student Input Form</h1>  
{% endif %}  
<form method="post">  
  {{form.as_p}}  
  {% csrf_token %}  
  <input type="submit" name="" value="Submit">  
</form>  
</div>  
</body>
```