

Flask – Sending Form Data to Template

We have already seen that the http method can be specified in URL rule. The **Form** data received by the triggered function can collect it in the form of a dictionary object and forward it to a template to render it on a corresponding web page.

In the following example, `/` URL renders a web page (`student.html`) which has a form. The data filled in it is posted to the `/result` URL which triggers the `result()` function.

The `results()` function collects form data present in `request.form` in a dictionary object and sends it for rendering to `result.html`.

The template dynamically renders an HTML table of **form** data.

Given below is the Python code of application –

```
from flask import Flask, render_template, request
app = Flask(__name__)

@app.route('/')
def student():
    return render_template('student.html')

@app.route('/result', methods = ['POST', 'GET'])
def result():
    if request.method == 'POST':
        result = request.form
        return render_template("result.html", result = result)

if __name__ == '__main__':
    app.run(debug = True)
```

Given below is the HTML script of **student.html**.

```
<html>
  <body>
    <form action = "http://localhost:5000/result" method = "POST">
      <p>Name <input type = "text" name = "Name" /></p>
      <p>Physics <input type = "text" name = "Physics" /></p>
      <p>Chemistry <input type = "text" name = "chemistry" /></p>
      <p>Maths <input type = "text" name = "Mathematics" /></p>
```

```
<p><input type = "submit" value = "submit" /></p>
</form>
</body>
</html>
```

Code of template (**result.html**) is given below –

```
<!doctype html>
<html>
  <body>
    <table border = 1>
      {% for key, value in result.items() %}
        <tr>
          <th> {{ key }} </th>
          <td> {{ value }} </td>
        </tr>
      {% endfor %}
    </table>
  </body>
</html>
```

Run the Python script and enter the URL **http://localhost:5000/** in the browser.

Submit Marks or type unknown

When the **Submit** button is clicked, form data is rendered on **result.html** in the form of HTML table.

Marks Table or type unknown

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