Create Contact Us using WTForms in Flask

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WTForms is a library designed to make the processing of forms easier to manage. It handles the data submitted by the browser very easily. In this article, we will discuss how to create a contact us form using WTForms.

Advantages of WT-FORM:

1. We don't have to worry about validators.
2. Avoidance of Cross-Site Request Forgery (CSRF).
3. WTForms come as classes, so all the good come's from an object form.
4. No need to create any <label> or <input> elements manually using HTML.

Installation

Use the Terminal to install Flask-WTF.

```
pip install Flask-WTF
```

Stepwise Implementation

Step 1: Create a class having all elements that you want in your Form in the **main.py**.

Python3

```python
from flask_wtf import FlaskForm
from wtforms import StringField, validators, PasswordField, SubmitField
from wtforms.validators import DataRequired, Email
import email_validator


class contactForm(FlaskForm):
    name = StringField(label='Name', validators=[DataRequired()])
    email = StringField(label='Email', validators=[
      DataRequired(), Email(granular_message=True)])
       message= StringField(label='Message')
    submit = SubmitField(label="Log In")
```

Step 2: Create the object of the form and pass the object as a parameter in the render_template

Python3

```
@app.route("/", methods=["GET", "POST"])
def home():
    cform = contactForm()
    return render_template("contact.html", form=cform)
```

Step 3: Add CSRF protection. Add a secret key.

```
app.secret_key = "any-string-you-want-just-keep-it-secret"
```

Step 4: Add the fields in the contact.html HTML FILE.

```
{{ form.csrf_token }} is used to provide csrf protection.
```

HTML

```
<!DOCTYPE HTML>

<html>
    <head>
        <title>Contact</title>
    </head>
    <body>
        <div class="container">
            <h1>Contact Us</h1>
            <form method="POST" action="{{ url_for('home') }}">
                {{ form.csrf_token }}

                <p>
                    {{ form.name.label }}
                    <br>
                    {{ form.name }}
                </p>



                <p>
                    {{ form.email.label }}
                    <br>
                    {{ form.email(size=30) }}
                </p>



                <p>
                    {{ form.message.label }}
                    <br>
                    {{ form.message }}
                </p>

                {{ form.submit }}
            </form>
        </div>
    </body>
</html>
```

Step 5: Validating the Form and receiving the data.

Python3

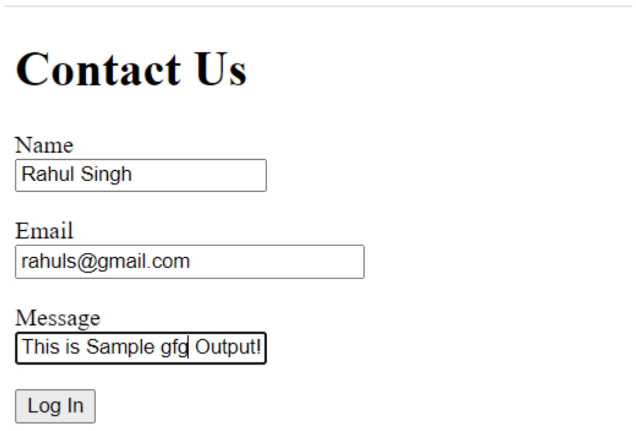
```
@app.route("/", methods=["GET", "POST"])
def home():
    cform = contactForm()
    if cform.validate_on_submit():
        print(f"Name:{cform.name.data},
              E-mail:{cform.email.data},
              message:{cform.message.data}")
    else:
        print("Invalid Credentials")

    return render_template("contact.html", form=cform)
```

Complete Code:

Python3

```
from flask import Flask, render_template, request, redirect, url_for
from flask_wtf import FlaskForm
from wtforms import StringField, validators, PasswordField, SubmitField
from wtforms.validators import DataRequired, Email
import email_validator

app = Flask(__name__)
app.secret_key = "any-string-you-want-just-keep-it-secret"

class contactForm(FlaskForm):
    name = StringField(label='Name', validators=[DataRequired()])
    email = StringField(
      label='Email', validators=[DataRequired(), Email(granular_message=True)])
    message = StringField(label='Message')
    submit = SubmitField(label="Log In")


@app.route("/", methods=["GET", "POST"])
def home():
    cform=contactForm()
    if cform.validate_on_submit():
            print(f"Name:{cform.name.data}, E-mail:{cform.email.data},
                  message:{cform.message.data}")
    return render_template("contact.html",form=cform)


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

Output:



Contact Us

Name
Rahul Singh

Email
rahuls@gmail.com

Message
This is Sample gfg Output!

```
Name:Rahul Singh, E-mail:rahuls@gmail.com, message:This is Sample gfg
Output!!!
```

Adding Bootstrap

We can also add the bootstrap to the above form to make it look interactive. For this, we will use the Flask-Bootstrap library. To install this module type the below command in the terminal.

```
pip install Flask-Bootstrap
```

Step 1: Create base.html

HTML

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>{% block title %}{% endblock %}</title>
</head>
<body>
    {% block content %}{% endblock %}
</body>
</html>
```

Step 2: Modify contact.html to

```
with single line {{ wtf.quick_form(form) }}
```

HTML

```html
{% extends 'bootstrap/base.html' %}
{% import "bootstrap/wtf.html" as wtf %}

{% block title %}
Contact Us
{% endblock %}
{% block content %}
        <div class="container">
            <h1>Contact Us</h1>
            {{ wtf.quick_form(form) }}
        </div>
{% endblock %}l>
```

Step 3: MODIFY main.py

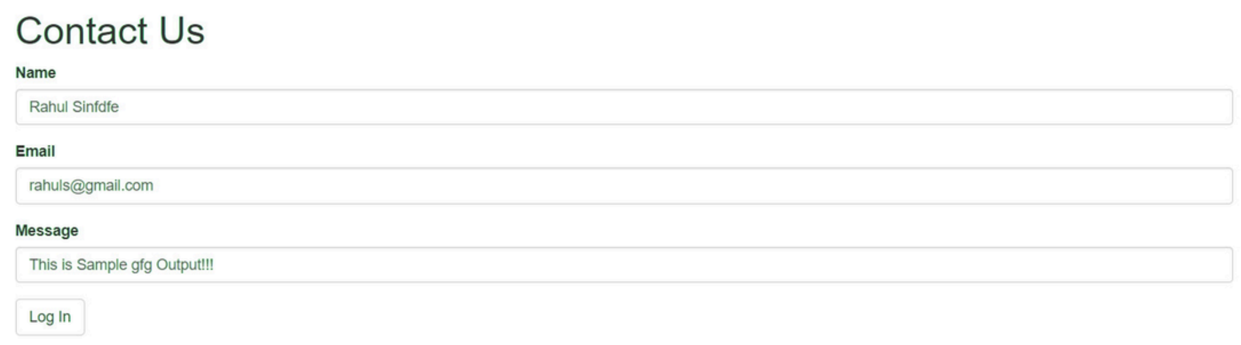
It is very simple to modify the .py file. We just have to import the module and add the below line into the code

```
Bootstrap(app)
```

Python3

```
from flask import Flask, render_template, request, redirect, url_for
from flask_wtf import FlaskForm
from wtforms import StringField, validators, PasswordField, SubmitField
from wtforms.validators import DataRequired, Email
from flask_bootstrap import Bootstrap
import email_validator
app = Flask(__name__)
Bootstrap(app)
app.secret_key = "any-string-you-want-just-keep-it-secret"

class contactForm(FlaskForm):
    name = StringField(label='Name', validators=[DataRequired()])
    email = StringField(label='Email', validators=[DataRequired(), Email(granular_
    message = StringField(label='Message')
    submit = SubmitField(label="Log In")


@app.route("/", methods=["GET", "POST"])
def home():
    cform=contactForm()
    if cform.validate_on_submit():
            print(f"Name:{cform.name.data}, E-mail:{cform.email.data}, message:{c
    return render_template("contact.html",form=cform)


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

Output:


Contact Us

Name

Rahul Sinfdfe

Email

rahuls@gmail.com

Message

This is Sample gfg Output!!!

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