

# UNIVERSIDAD DE GUADALAJARA

## Centro Universitario de los Valles



**Diseño de interfaces y formularios con Flask (Templates y Web Forms)**

DESARROLLO DE BASES DE DATOS PARA WEB

Adolfo Castillo Chavarín

Angel Ricardo Sanchez Ruiz

223320827

Licenciatura en Tecnologías de la Información

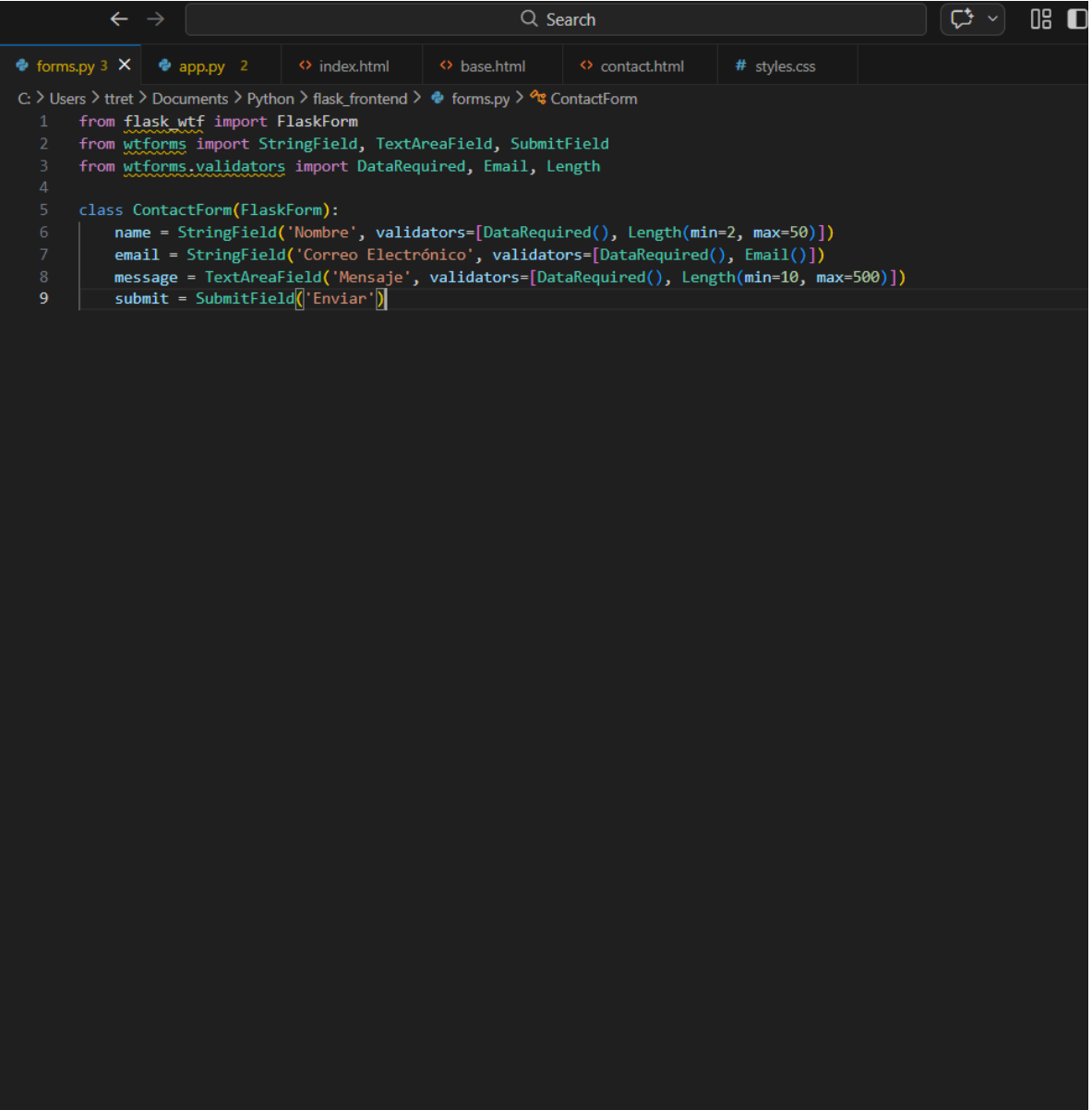
## Capturas de pantalla

### APP.PY



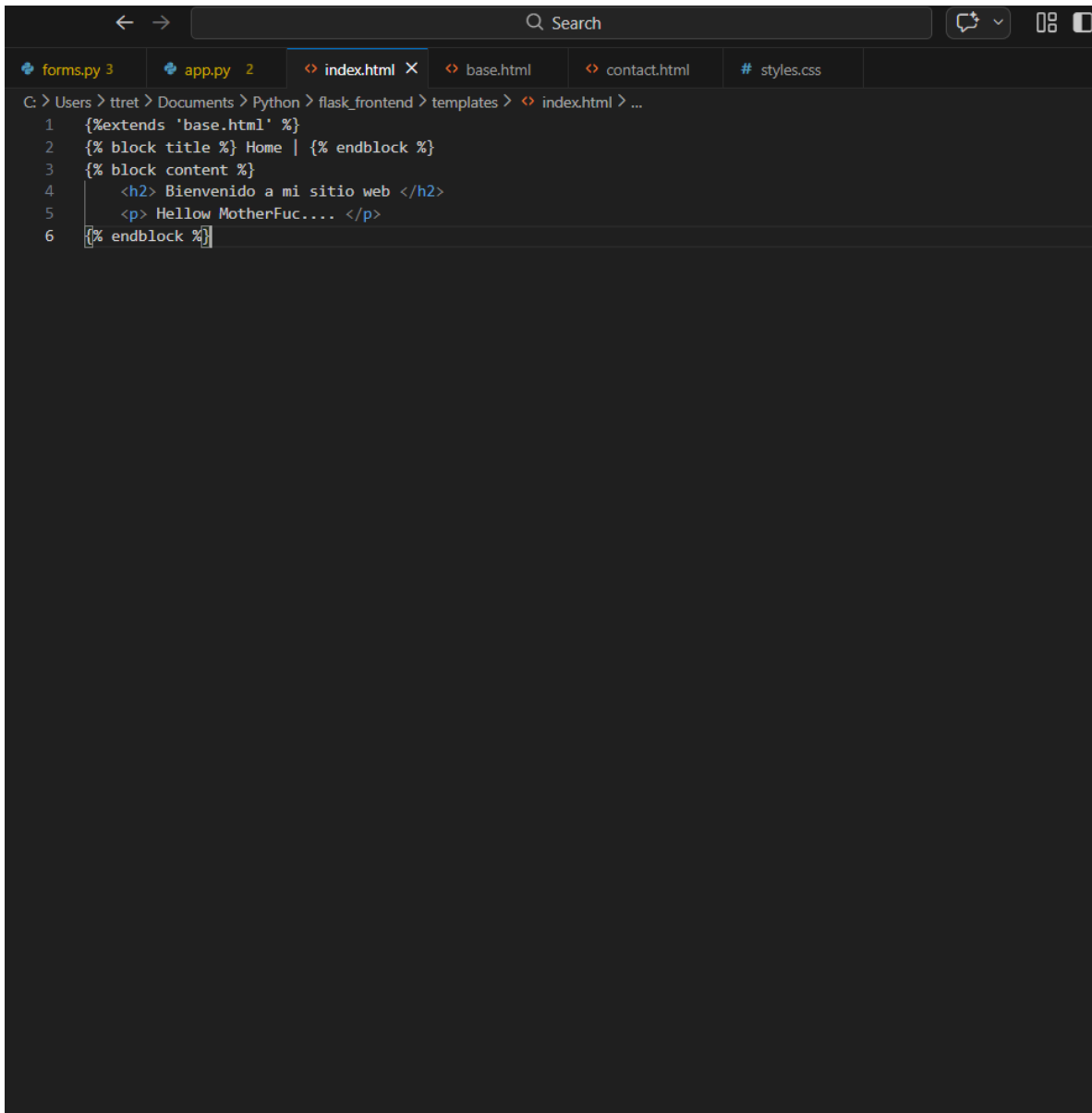
```
1 from flask import Flask, render_template, redirect, url_for, flash
2 from forms import ContactForm
3
4
5 app = Flask(__name__)
6 app.config['SECRET_KEY'] = '1234'
7
8 @app.route('/')
9 def index():
10     return render_template('index.html')
11
12 @app.route('/contact', methods=['GET', 'POST'])
13 def contact():
14     form = ContactForm()
15     if form.validate_on_submit():
16         flash(f'Mensaje enviado correctamente, {form.name.data}!', 'success')
17         return redirect(url_for('index'))
18     return render_template('contact.html', form=form)
19
20
21 if __name__ == '__main__':
22     app.run(debug=True)
```

## FORMS.PY



```
C: > Users > ttret > Documents > Python > flask_frontend > forms.py > ContactForm
1  from flask_wtf import FlaskForm
2  from wtforms import StringField, TextAreaField, SubmitField
3  from wtforms.validators import DataRequired, Email, Length
4
5  class ContactForm(FlaskForm):
6      name = StringField('Nombre', validators=[DataRequired(), Length(min=2, max=50)])
7      email = StringField('Correo Electrónico', validators=[DataRequired(), Email()])
8      message = TextAreaField('Mensaje', validators=[DataRequired(), Length(min=10, max=500)])
9      submit = SubmitField('Enviar')
```

## INDEX.HTML



The image shows a code editor interface with a dark theme. At the top, there is a search bar and a tab bar. The tab bar contains several tabs: 'forms.py 3', 'app.py 2', 'index.html X', 'base.html', 'contact.html', and '# styles.css'. The 'index.html' tab is currently selected. Below the tab bar, the file path is displayed: 'C: > Users > ttret > Documents > Python > flask\_frontend > templates > index.html > ...'. The main area of the editor shows the content of 'index.html', which is a Jinja2 template. The code is as follows:

```
1 {%extends 'base.html' %}  
2 {% block title %} Home | {% endblock %}  
3 {% block content %}  
4     <h2> Bienvenido a mi sitio web </h2>  
5     <p> Hellow MotherFuc.... </p>  
6 {% endblock %}
```

## BASE.HTML

```
forms.py 3  app.py 2  index.html  base.html X  contact.html  # styles.css
C: > Users > ttret > Documents > Python > flask_frontend > templates > base.html > html
1  <!DOCTYPE html>
2  <html lang="es">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>{% block title %}{% endblock %}</title>
7      <link rel="stylesheet" href="{{ url_for('static', filename='css/styles.css') }}">
8  </head>
9  <body>
10
11      <nav>
12          <a href="{{ url_for('index') }}">Inicio</a>
13          <a href="{{ url_for('contact') }}">Contacto</a>
14      </nav>
15
16      <main>
17          {% with messages = get_flashed_messages() %}
18              {% if messages %}
19                  <ul class="flashes">
20                      {% for message in messages %} <li>{{ message }}</li> {% endfor %}
21                  </ul>
22              {% endif %}
23          {% endwith %}
24
25          {% block content %}{% endblock %}
26      </main>
27
28      <footer>
29          <p> &copy; Universidad de Guadalajara 2026 A</p>
30      </footer>
31
32  </body>
33  </html>
```

## CONTACT.HTML

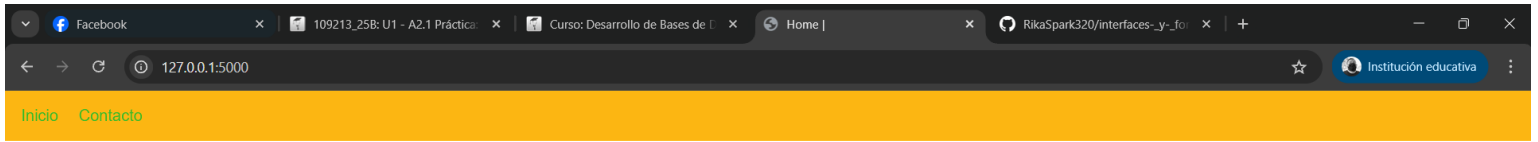
```
forms.py 3  app.py 2  index.html  base.html  contact.html X  # styles.css

C: > Users > ttret > Documents > Python > flask_frontend > templates > contact.html > ...
1  {% extends 'base.html' %}
2  {% block title %} Contacto | {% endblock %}
3  {% block content %}
4      <h2> Contactanos </h2>
5      <form method="post">
6          {{ form.hidden_tag() }}
7          <p>
8              {{ form.name.label }} <br> {{ form.name(size=32) }} <br>    </p>
9              <p>
10                 {{ form.email.label }} <br> {{ form.email(size=32) }} <br>    </p>
11                 <p>
12                     {{ form.message.label }} <br> {{ form.message(rows=4, cols=32) }} <br>    </p>
13                 <p>{{ form.submit() }}</p>
14             </form>
15
16
17  {% endblock %}
```

## STYLES.CSS

```
forms.py 3  app.py 2  index.html  base.html  contact.html  # styles.css X
C: > Users > ttret > Documents > Python > flask_frontend > static > css > # styles.css > nav
1  body {
2      font-family: arial, san-serif;
3      margin: 0; padding: 0;
4
5  }
6  nav{
7      background-color: #fcb612;
8      color: white;
9      padding: 1em;
10 }
11 nav a {
12
13     color: #34bb2d;
14     text-decoration: none;
15     margin-right: 1em;
16 }
17
18 main {
19     padding: 2em;
20 }
21 .flashes {
22     list-style-type: none;
23     padding: 0;
24 }
25 .flashes li {
26     background-color: #ffc;
27     padding: 0.5em;
28     margin-bottom: 0.5em;
29     border: 1px solid #cc9;
30     border-radius: 4px;
31 }
```

# Pagina Principal



## Bienvenido a mi sitio web

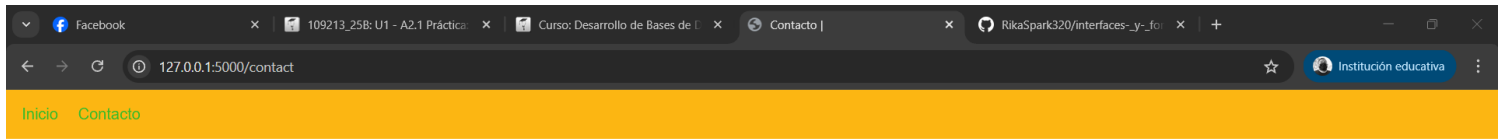
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## Pagina de contacto



### Contactanos

Nombre

Correo Electrónico

Mensaje

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