

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

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Licenciatura en Tecnologías de la Información

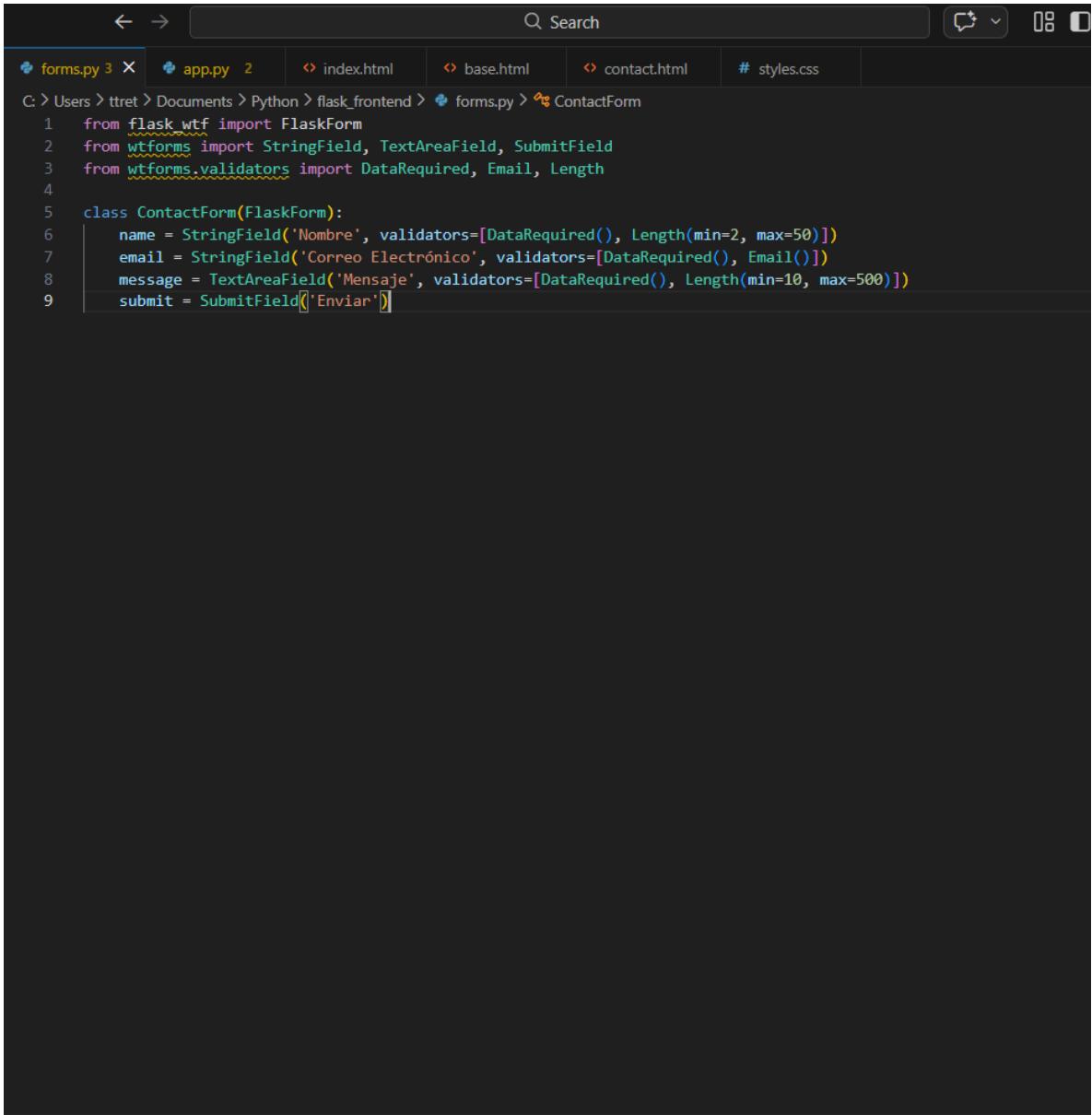
Capturas de pantalla

APP.PY

The screenshot shows a code editor window with a dark theme. The title bar says "APP.PY". The top menu bar includes "File", "Edit", "View", "Search", "Tools", "Help", and "About". The toolbar has icons for "New", "Open", "Save", "Run", "Stop", and "Exit". The left sidebar shows project files: "forms.py 3", "app.py 2 X", "index.html", "base.html", "contact.html", and "styles.css". The main editor area displays the following Python code:

```
C: > Users > ttret > Documents > Python > flask_frontend > 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

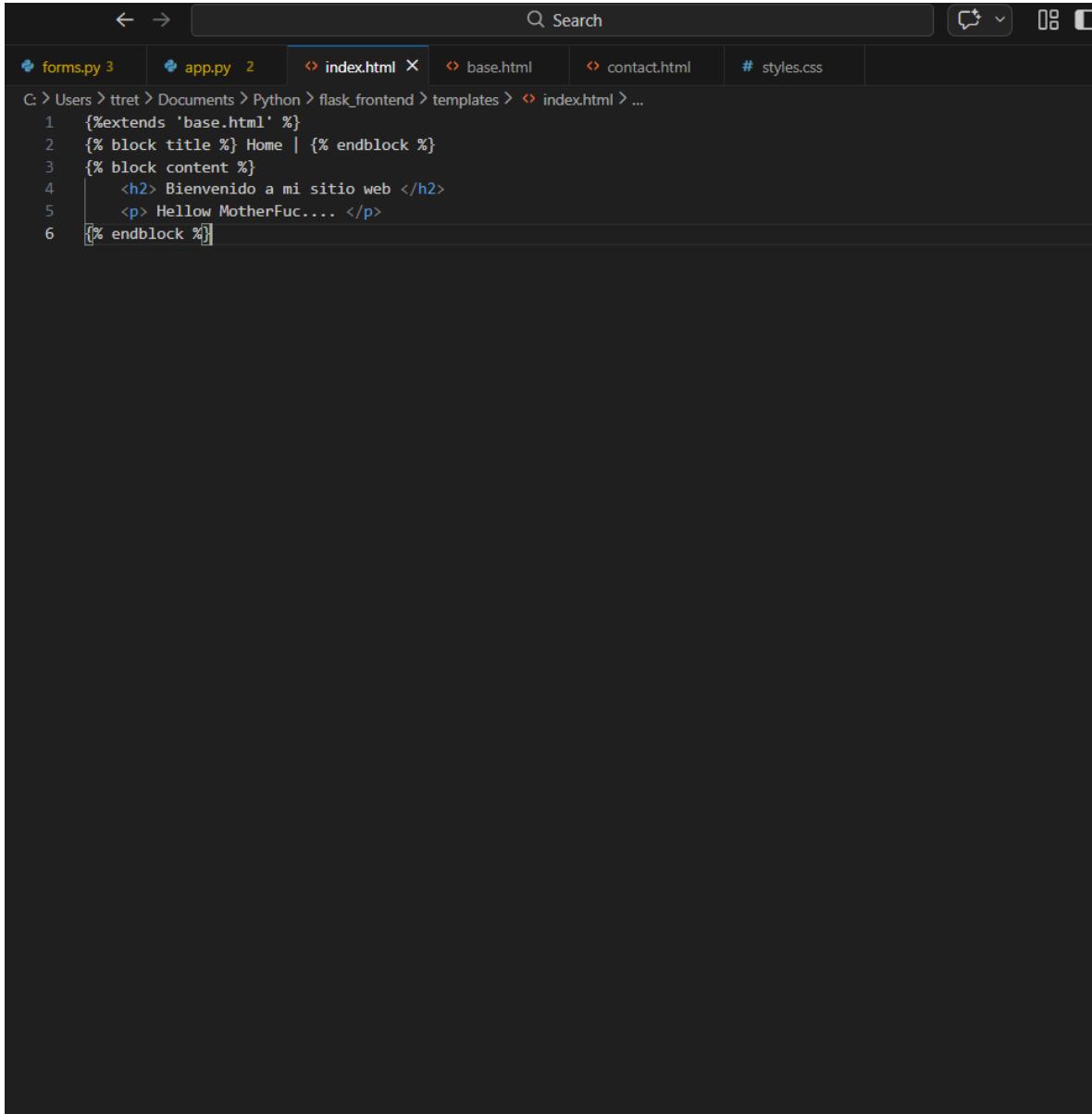


The screenshot shows a code editor window with the following details:

- File:** forms.py (highlighted in blue)
- Project Structure:** C: > Users > ttret > Documents > Python > flask_frontend > forms.py
- Code Content:**

```
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 screenshot shows a code editor window with a dark theme. At the top, there is a navigation bar with icons for back, forward, search, and other file operations. Below the navigation bar, a tab bar displays several files: forms.py (3), app.py (2), index.html (the active tab, indicated by a red X), base.html, contact.html, and styles.css.

The main workspace shows the content of the index.html file:

```
C: > Users > ttret > Documents > Python > flask_frontend > templates > index.html > ...
1  {%extends 'base.html' %} 
2  {% block title %} Home | {% endblock %} 
3  {% block content %} 
4      <h2> Bienvenido a mi sitio web </h2> 
5      <p> Helllow MotherFuc.... </p> 
6  {% endblock %}
```

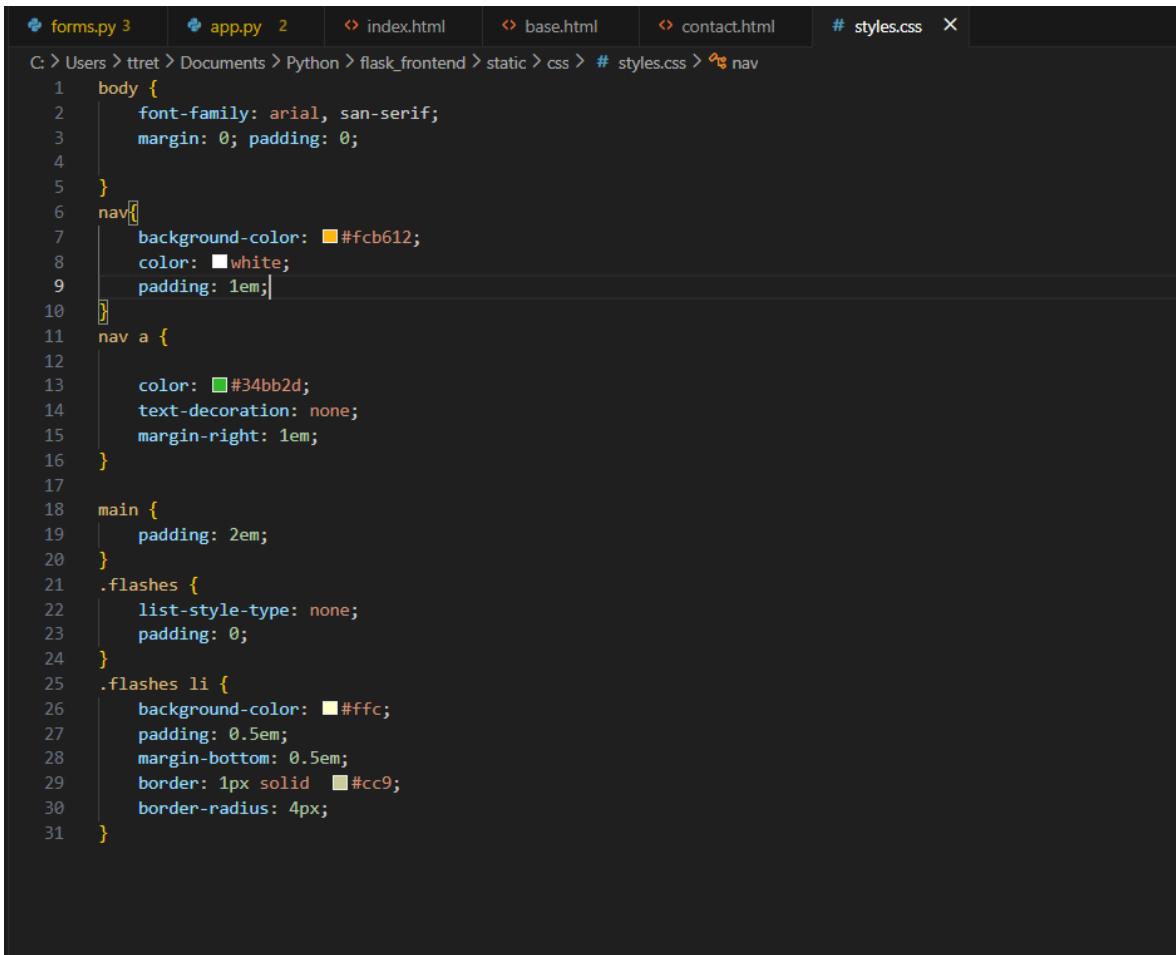
BASE.HTML

```
C: > Users > tret > 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 
15 
16     </form> 
17 {% endblock %}
```

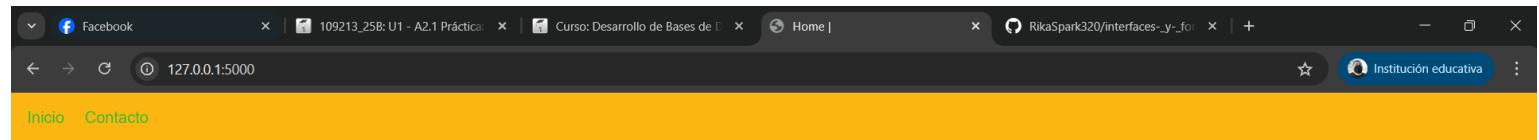
STYLES.CSS



The screenshot shows a code editor window with the file "styles.css" open. The file path is C:\Users\tret\Documents\Python\flask_frontend\static\css\# styles.css. The code is a CSS stylesheet with the following content:

```
C: > Users > tret > 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 }
```

Página Principal



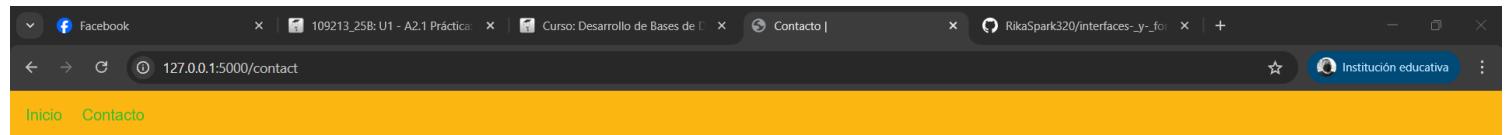
Bienvenido a mi sitio web

Hello MotherFuc...

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Página de contacto



Contactanos

Nombre

Correo Electrónico

Mensaje

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