

Laboratorio 3.

Web 3.

Link del Github: <https://github.com/Joxini/Lab3Web3.git>

-Instalar django:

-Abrir la terminal:

pip install django

-Crear Proyecto en el trabajo de Flask:

- Terminal:

django-admin startproject Lab3

-Abrir Proyecto en VisualCode o Pycharm

-Abrir terminal:

cd/Lab3

-Crear Modulo:

python manage.py startapp app

-Abrir archivo settings.py:

- En INSTALLED_APPS, agregar esto:

- 'app'

-Probamos:

python manage.py runserver

- Instalar crispy en Lab3:

pip install django-crispy-forms

- Crear tabalas de Django:

terminal:

- python manage.py makemigrations

- python manage.py migrate

- Crear usuario en Django:

- python manage.py createsuperuser

username: jocksan

password: admin

- Corremos el servidor:

- python manage.py runserver

- Navegador:

- http://127.0.0.1:8000/admin

- username: jocksan

- password: admin

- directorio: Lab3/templates/registration:

-login.html:

```
<!DOCTYPE html>
<html>
<head>
<title>Iniciar Sesión</title>
</head>
<body>
<h2>Iniciar Sesión</h2>
<form method="post">
    {% csrf_token %}
    {{ form }}
    <button type="submit">Iniciar Sesión</button>
    <a href="{% url 'registro' %}">Registrarse</a>
</form>
</body>
```

```
</html>
```

```
-registro.html:
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css"
integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2"
crossorigin="anonymous">

  <title>Registrarse</title>
</head>
<body>

  <div class="container">
    <br>
    <br>
    <br>
    <div class="row">
      <div class="col-12 col-md-6 offset-md-3">
        <div class="card">
          <div class="card-body">
            <h2>Registrarse</h2>
            <hr>
            <form action="" method="post">
              {% csrf_token %}
              {{ form }}
              <br>
              <button class="btn btn-success float-left"><a
style="color: azure;" href="{% url 'login'%}">Iniciar Sesión</a></button>
              <input type="submit" value="Registrarse" class="btn btn-
success float-right">
            </form>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>

</body>
</html>
```

```
-Creamos archivo directorio de app: Lab3/app/urls.py
```

```
- urls.py
```

```
- from django.urls import path
  from .views import base, registro
  urlpatterns = [
    path('', base, name='base'),
    path('registro/', registro, name="registro"),
  ]
```

```
En Lab3/settings.py, agregar esto:
```

```
- LOGIN_REDIRECT_URL = 'http://192.168.18.8:5001/'
```

```
En views.py:
```

```

- from django.shortcuts import render, redirect
  from .forms import CustomUserCreationForm
  from django.contrib.auth import authenticate, login
  from django.contrib import messages
  from django.http import Http404
# Create your views here.

def base(request):
    return render(request, 'app/base.html')

def registro(request):
    data = {
        'form': CustomUserCreationForm()
    }
    if request.method == 'POST':
        formulario = CustomUserCreationForm(data = request.POST)
        if formulario.is_valid():
            formulario.save()
            messages.success(request, "Te has registrado correctamente")
            return redirect(to="login")
        data["form"] = formulario
    return render(request, 'registration/registro.html', data)

```

En forms.py:

```

- from django import forms
  from django.contrib.auth.forms import UserCreationForm

  class CustomUserCreationForm(UserCreationForm):
      pass

```

En Lab3/urls.py:

```

- """

```

URL configuration for Lab3 project.

The `urlpatterns` list routes URLs to views. For more information please see:

<https://docs.djangoproject.com/en/4.2/topics/http/urls/>

Examples:

Function views

1. Add an import: `from my_app import views`
2. Add a URL to urlpatterns: `path('', views.home, name='home')`

Class-based views

1. Add an import: `from other_app.views import Home`
2. Add a URL to urlpatterns: `path('', Home.as_view(), name='home')`

Including another URLconf

1. Import the include() function: `from django.urls import include, path`
2. Add a URL to urlpatterns: `path('blog/', include('blog.urls'))`

```

"""

```

```

from django.contrib import admin
from django.urls import path, include

```

```

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('app.urls')),
    path('accounts/', include('django.contrib.auth.urls')),
]

```

=====En la parte del proyecto de Flask=====

-En el index.html:

```

- {% extends "layout.html"%}

```

```

{% block titulo %}
<title>Hecho con Flask</title>
{% endblock %}

{% block contenido %}
<a class="btn btn-outline-primary btn-sm float-right" href="{{ url_for('login') }}">Iniciar sesión</a>
<h3>Control de datos con Flask</h3>
<br/>
<h5>Datos</h5>
<table class="table ">
  <thead class="thead-dark">
    <tr>
      <th scope="col">ID</th>
      <th scope="col">Título</th>
      <th scope="col">Descripción</th>
      <th scope="col">Controles</th>
    </tr>
  </thead>
  <tbody>
    {% for dato in datos %}
    <tr>
      <th scope="row">{{ dato.ID }}</th>
      <td>{{ dato.Texto }}</td>
      <td>{{ dato.Descripcion }}</td>
      <td>
        <button class="btn btn-outline-success btn-sm" onclick="modificar({{
dato.ID }})">Editar</button>
        <script>
          function modificar(ide){
            window.location.href = "/modificar/" + ide;
          }
          function borrar(ide){
            window.location.href = "/exec_eliminar/" + ide;
          }
        </script>
        <button class="btn btn-outline-danger btn-sm" onclick="borrar({{ dato.ID
}})">Borrar</button>
      </td>
    </tr>
    {% endfor %}
  </tbody>
</table>
<hr/>
<a class="btn btn-outline-primary btn-sm" href="{{ url_for('agregar') }}">Agregar
dato</a>

{% endblock %}

- En appSitio.py:
  - @app.route('/login')
    def login():
      return redirect('http://127.0.0.1:8000/accounts/login')

```

=====Tabla comparativa=====

=====Tecnologías=====				
Dato por evaluar =====	PHP	Flask	Django	
Requiere servidor dedicado	Apache, Nginx	NO	NO	
Independencia del servidor web	SI	NO	NO	
Documentacion accesible	SI	SI	SI	
Seguridad	SI	NO	SI	
Escalable	SI	SI	SI	
Simplicidad	SI	SI	NO	