Solution: Create a Login and Logout Mechanism

In this lesson, we will go over the solution of this challenge.

WE'LL COVER THE FOLLOWING Solution Explanation Modifications in app.py 1. The login view 2. The logout view Modifications in base.html

Solution

```
"""Flask Application for Paws Rescue Center."""
from flask import Flask, render_template, abort
from forms import SignUpForm, LoginForm
from flask import session, redirect, url_for
app = Flask(__name__)
app.config['SECRET KEY'] = 'dfewfew123213rwdsgert34tgfd1234trgf'
"""Information regarding the Pets in the System."""
pets = [
            {"id": 1, "name": "Nelly", "age": "5 weeks", "bio": "I am a tiny kitten rescued by
            {"id": 2, "name": "Yuki", "age": "8 months", "bio": "I am a handsome gentle-cat.
            {"id": 3, "name": "Basker", "age": "1 year", "bio": "I love barking. But, I love
            {"id": 4, "name": "Mr. Furrkins", "age": "5 years", "bio": "Probably napping."},
"""Information regarding the Users in the System."""
users = [
            {"id": 1, "full_name": "Pet Rescue Team", "email": "team@pawsrescue.co", "passwor
        ]
@app.route("/")
def homepage():
    """View function for Home Page."""
   return render_template("home.html", pets = pets)
```

```
@app.route("/about")
def about():
    """View function for About Page."""
    return render_template("about.html")
@app.route("/details/<int:pet_id>")
def pet_details(pet_id):
    """View function for Showing Details of Each Pet."""
    pet = next((pet for pet in pets if pet["id"] == pet_id), None)
    if pet is None:
        abort(404, description="No Pet was Found with the given ID")
    return render_template("details.html", pet = pet)
@app.route("/signup", methods=["POST", "GET"])
def signup():
    """View function for Showing Details of Each Pet."""
    form = SignUpForm()
    if form.validate on submit():
        new_user = {"id": len(users)+1, "full_name": form.full_name.data, "email": form.email
        users.append(new_user)
        return render_template("signup.html", message = "Successfully signed up")
    return render_template("signup.html", form = form)
@app.route("/login", methods=["POST", "GET"])
def login():
    form = LoginForm()
    if form.validate_on_submit():
        user = next((user for user in users if user["email"] == form.email.data and user["pas
        if user is None:
            return render_template("login.html", form = form, message = "Wrong Credentials. F
        else:
            session['user'] = user
            return render_template("login.html", message = "Successfully Logged In!")
    return render_template("login.html", form = form)
@app.route("/logout")
def logout():
    if 'user' in session:
        session.pop('user')
    return redirect(url_for('homepage', _scheme='https', _external=True))
if name == " main ":
    app.run(debug=True, host="0.0.0.0", port=3000)
```

Explanation

Let's break down the solution of this challenge to figure out how we solved it.

Modifications in app.py

1. The login view

In the login view, we first took care of authenticating the user. In line 58, if the form.validate_on_submit() returns true, we searched for that user in the

message saying, "Wrong credentials. Please try again."

If the user is found, then we authenticate the user by adding it to the session object with the key 'user'. Then, we return the template with only the message saying, "Successfully logged in!"

2. The logout view

The logout view is really straightforward. This view has the URL route /logout. In this view, we check if the 'user' is present in the session, in line 69. If 'user' is found, we remove it by using:

```
session.pop('user')
```

Afterward, we redirect the user to the homepage view by using the redirect and url_for() function that we imported in line 4.

```
return redirect(url_for('homepage', _scheme='https', _external=True))
```

Modifications in base.html

We also had the task of modifying the navigation bar in the case of a logged-in user. For this purpose, we used an <code>if</code> statement in Jinja to check if <code>'user'</code> is present in the <code>session</code>. If the <code>'user'</code> was indeed present, we added a link to the <code>logout</code> route.

```
{% if 'user' in session %}
      style="display:inline"><a href="{{url_for('logout')}}">Log Out</a>
```

Otherwise, we displayed the default links in the else block.

```
{% else %}
     <!i style="display:inline"><a href="{{url_for('signup')}}">Sign Up</a>

     <!i style="display:inline"><a href="{{url_for('login')}}">Login</a>
i>
```

Well done! Now you have mastered the form handling and sessions in Flask.

Now, let's move on and learn about how to interact with a database using the

Flask application. Stay tuned!