Advanced Programming with Python sessions and cookies

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Plan for today

- Review last day's homework
- HTML Forms
- Sessions and Cookies
- Authentication





```
<form action="/handle-login" method="POST">
```

```
</form>
```



```
</form>
```







Whenever a form is submitted, it will send an HTTP requests to the URL specified in action, with the method specified in method, and sending the form data in the body of the request



Receiving form data in flask

```
from flask import request

@app.route("/handle-login", method=["POST"])
def handle_login():
    username = request.form["username"]
    password = request.form["password"]

# Now, do whatever you want with user and password, for extraction is not password for the user
```



Adding login to our users backoffice

Adding login to our user's backoffice

Let's add login functionality to our user's backoffice!



Sessions

There's a feature of most web applications that we haven't yet discussed, sessions.

Session in the web allow to create sections of websites that are private, for which users need to authenticate in order to access.



Sessions & cookies

Sessions are hold by making HTTP use a special kind of header called cookie.

Cookies are headers that the server sends alongside the HTTP response, that the client **will send back** in subsequent requests!



Sessions & cookies

Whiteboard

Let's whiteboard the whole flow of cookies and sessions



Using sessions in flask

from flask import request, session

sessions in flask are handled by importing the session object from flask:

```
Capp.route("/handle-login", method=["POST"])
def handle_login():
    username = request.form["username"]
    password = request.form["password"]

session["username"] = username # this way, we can identify
```



Using sessions in flask

from flask import session

sessions in flask are handled by importing the session object from flask:

```
@app.route("/")
def index():
    if "user_id" in session: # session behaves like a diction
    return render_template("index.html")
```

return render_template("login.html")



else: