

Lecture: Flask and Sessions

creating a note taking app

```
notes = []
```

```
@ app.route( "/", methods = ["GET", "POST"] )
```

```
def index():
```

```
    if request.method == "POST"
```

```
        note = request.form.get("note")
```

```
        notes.append(note)
```

```
    return render_template("index.html",
```

```
        notes = notes)
```

index.html

```
<ul>
```

```
    { % for note in notes % }
```

```
        <li> {{ note }} </li>
```

```
    { % end for % }
```

```
</ul>
```

```
<form action="" {{ url_for('index') }} "
                                method = post >
```

```
<input type="text" name = "note" >
```

```
<button> Add note </button>
```

```
</form>
```

if you add "note 1", then press submit

A hand-drawn diagram of a web form. It is a rounded rectangle containing a list with one item: "• note 1". Below the list is a rectangular input field and a circular button labeled "submit".

If you further add "note 2", then press submit

A hand-drawn diagram of a web form. It is a rounded rectangle containing a list with two items: "• note 1" and "• note 2". Below the list is a rectangular input field and a circular button labeled "submit".

Even if you close webpage / reload, ^{old} notes stay
[server has saved them to a variable
for current session...]

will address this
once we learn
databases.

Problem: if web server restarts, all old
notes disappear... as notes reset to []

another problem - notes is a global variable

- accessible across the application.

if 2 ppl using same app, then only one common notes \odot .

from flask import session

from flask_session import Session

object..
Session ← dictionary for current session
so can have a notes key for
this session ...

not sure if dictionary / dictionary like object..

```
app.config["SESSION-PERMANENT"] = False
app.config["SESSION-TYPE"] = "filesystem"
Session(app)
```

```
@app.route("/", methods = ["GET", "POST"]
```

```
def index():
    session["notes"] = []
    if request.method == "POST":
        note = request.form.get("note")
        session["notes"].append(note)
```

```
return render_template("index.html,
```

```
"..")
```

notes = session["notes"]

but then each time

you run index, session["notes"] gets reset to []

so all old notes lost...

Instead do

if session.get("notes") is None:

session["notes"] = []
