PYTHON

- Python is an interpretative language

Ly interpreter goes through code line by line /

No compilation of code to machine code

[skipped Python Basics]

HTTP

- search messite address -> sends HTTP request
- server handles request and sends bade response which is then rendered in the browser

FLASK

- microfranework to create web applications (handle requests)
- application.py main file
- app = Flask (-- name --) the current file represents

 Newly created application
- @app. route ("/<page-route>") & route that triggers decorated function
- -\$flask run (runs flask application in CWd)
 Le relies on environment variable
 - export FLASK_APP = file.py
- @ app. route ("/2string: name>") template for set of routes
 Lo passes name as argument to fance

- return String could return HTML content but very limited and starts to get messy
- HTML templates templates folder
- return render-template ("file.html") return HTML from file
- pass variables as arguments to render-template

 Lo inside file. html: {{\text{variable }}} Jinjia2 syntax

 Lo placeholder for variable value

 gets inserted when rendered
- {% if variable %} python-like syntax html content
 - for different variable values
- {% for var in list % }

 html content {{ var }}

 {% end for %}

LINKING ROUTES

- La href = " { E wrl-for ('route-function') }}" > Text = /a>

TEMPLATE INHERITANCE

- basic layout/template HTMZ
- E% block heading % 3 Exendblock %3 + Lo Variable parts of template
- webpages that use file as template:
- E% extends "layout-html" %}
 E% block heading %3
 html content
 E% endblock %3

FORMS

- Leform action = " (& url-for ('func') }}"

 method = "post" > input/button ... </form>
 Leform action = " (& url-for ('func') }

 name attribute
- @app-route ("/route", methods = ["Post"])

 def function_route():

 name = request.form.get ("name")

SESSIONS

- store user-specific data
- append values to list, submit using forms
 La variables are stored as long as server not shutdown
- global variables are common for all users concept of sessions

EXAMPLE

```
from flask import session ...

from flask_session import Session

app. config ["SESSION_PERHANENT"] = False

app. config ["SESSION_TYPE"] = "filesystem"

i.

app. roule ("/")

def func ():

if session get ("notes") is None:

session ["notes"] = []

session ["notes"]. append (note)
```