More about DNS: https://www.cloudflare.com/learning/dns/what-is-dns/

More on HTTP: https://developer.mozilla.org/en-US/docs/Web/HTTP/Overview

Pip installation

Ubuntu: sudo apt install python3-pip

Others: https://pip.pypa.io/en/stable/installing/

Open terminal (in Linux) or command-prompt or powershell(in windows)

[Note] In windows python or python3 command is generally abbreviated and made py So use

```
py ...
Instead of
python3 ...
```

Virtual environment setup

Update pip:

```
python3 -m pip install --upgrade pip
```

Install virtualenv

Mac/linux

```
python3 -m pip install --user virtualenv
```

Windows:

```
py -m pip install --user virtualenv
```

Creating

Linux: python3 -m venv env

Windows:

```
py -m venv env
```

Activating:

```
linux/mac
```

```
source env/bin/activate
```

windows

```
.\env\Scripts\activate
```

Deactivating

Deactivate

Hello world App

```
Step1: Install dependencies
```

```
pip install flask
```

Step 2: Check installed packages

```
pip freeze
```

Step 3: Open a code editor (VScode, pycharm, atom) and create a file named app.py

Step 4:Follow with me or paste the following code:

```
from flask import Flask
app = Flask(__name__)

@app.route('/')
def index():
    return "Hello World"

if __name__ == "__main__":
    app.run()
```

Step 5: Go to the terminal and run the code using the following command python app.py

Step 6: Go to the url provide by flask i.e: http://127.0.0.1:5000/ and verify it is working.

Now we are equipped with concept of working of web app we go further to improve our web app.

TEMPLATES and LAYOUT

Separation of business logic and presentation logic.

Steps are self explanatory in starting files.

REQUEST and FORMS

Request captures HTTP messages and provide us in easy format.

Methods are the verbs to describe how those HTTP messages are obtained.

Steps are described in starting files.

Static Files

These are Javascript, CSS, images, pdf files that are to be accessed from your templates.

Jinja Syntax to include css would be:

```
<link rel="stylesheet" href="{{ url_for('static',filename='style.css')
}}">
```

Note: style.css should be inside static/folder in the same directory of app.py

Flask Official Documentation: https://flask.palletsprojects.com/_/downloads/en/1.1.x/pdf/