Web application development required 2 softwares

1. Client
2. Server

**Client**

In web application development a client is browser

Browser is called thin client

Web application is accessed by the client with the help of browser

Example: edge, chrome, Mozilla, …

**Server**

Server is a software or program, where web application is installed. Server serves web application resources to one user or more than one user. In web application development these servers are called web servers/http servers.

1. Development Servers
2. Production Servers

Development servers are used for developing and testing web application.

Production servers where, web application installed and available to all the users.

**WSGI**

The Web Server Gateway Interface is a simple calling convention for web servers to forward requests to web applications or frameworks written in the Python programming language

**ASGI**

An ASGI server is a web server implementation in Python that uses the Asynchronous Server Gateway Interface (ASGI) standard. ASGI is a protocol that defines how web servers and applications interact, especially in asynchronous contexts. It's essentially a modern version of the Web Server Gateway Interface (WSGI), designed to support asynchronous and concurrent processing of requests.

**List of web servers**

**Gunicorn:** A pure-Python HTTP server commonly used for serving Django WSGI applications.

**uWSGI:** A fast and highly configurable server that supports WSGI and other protocols.

**Daphne:** An ASGI server that supports HTTP, WebSocket, and HTTP/2.

**Hypercorn:** An ASGI server implementation.

**Uvicorn:** A lightning-fast ASGI server implementation.

**How to develop web application using python?**

WSGI is an API given by python for developing,

1. WSGI Servers
2. WSGI Applications (Web Applications)

codewithsatishgupta