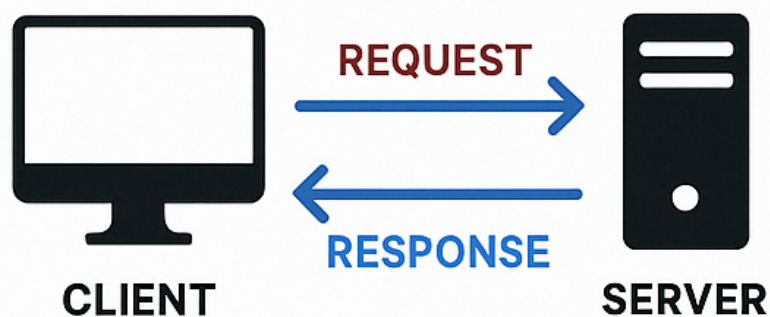# HTTP PROTOCOL

Introduction

Hypertext Transfer Protocol (HTTP) is an application-layer protocol used for transmitting hypermedia documents, such as HTML.

It is the foundation of any data exhang on the Web and follows a classic --- client-server model, where a client a (e.pvimadly web browser) makes a re quest and a server respoids to that re-quest.

REQUEST/RESPONSE MODEL

REQUEST

RESPONSE

CLIENT   **SERVER**

Stateless
Each request is independent and unrelated to previous requests

Connectionless
The client opens aTCP connection to the server, sends the request, and closes the connection

Textual
HTTP messages are in human-readable text format

STATUS CODES

1xx Informational
100   Continue

2xx Success
200   Ok

3xx Redirection
301   Moved Pernaanently

4xx Client Error
404   Not Found

5xx Server Error
500   Internal Server Error

FEATURES

Stateless
Each request is independent and unrelated to previous requests

Connectionless
The client opens a TCP connection to the server, sends the request, and closes the comacion

Extensible
Easily extendable with new functionality through headers