HTTP Crash Course for Full Stack Web Developers

This crash course provides a summary of HTTP methods, status codes, and other essentials necessary for a full stack web developer to effectively work with HTTP-based communication.

HTTP Methods

GET: Retrieves data from the server (e.g., fetching a webpage).

POST: Sends data to the server (e.g., submitting a form).

PUT: Replaces or creates a resource on the server.

PATCH: Partially updates a resource on the server.

DELETE: Removes a resource from the server.

HEAD: Same as GET, but only retrieves headers, not the body.

OPTIONS: Returns the HTTP methods available for a resource.

CONNECT: Establishes a tunnel to the server.

TRACE: Echoes back the received request (used for diagnostics).

HTTP Status Codes

1xx Informational: Request received, continuing process.

2xx Success: The request was successfully received, understood, and accepted.

200 OK: The request was successful.

201 Created: A new resource was created.

204 No Content: The request succeeded, but no content to return.

3xx Redirection: Further action is needed to complete the request.

301 Moved Permanently: Resource has been permanently moved to a new URL.

302 Found: Resource temporarily moved.

4xx Client Errors: The request contains bad syntax or cannot be fulfilled.

400 Bad Request: The server could not understand the request.

401 Unauthorized: Authentication is needed to access the resource.

403 Forbidden: You do not have permission to access this resource.

404 Not Found: The requested resource could not be found.

5xx Server Errors: The server failed to fulfill a valid request.

500 Internal Server Error: The server encountered an unexpected condition.

503 Service Unavailable: The server is temporarily unavailable.

Summary

This document summarizes HTTP fundamentals essential for full stack web developers, including methods for handling requests and status codes for interpreting responses.