Today we learnd about HTTP Requests and HTTP Responses. Now it's time to apply what you've learned by answering the below questions.

**Problem 1**

What are the 5 categories of HTTP Response status codes?

|  |  |
| --- | --- |
| **Category** | **Usage** |
| **100s** | Informational |
| **200s** | Successful |
| **300s** | Redirection |
| **400s** | Client error |
| **500s** | Server error |

**Problem 2**

Fill out the table with the appropriate status message and description. (For reference, refer to the MDN docs on [HTTP Response Status Codes](https://developer.mozilla.org/en-US/docs/Web/HTTP/Status)).

|  |  |  |
| --- | --- | --- |
| **HTTP Response Status Code** | **HTTP Response Status Message** | **Description** |
| **100** | Continue | Indicates that the client should continue the request or ignore the response if the request is already finished |
| **102** | Processing | Request received and is processing, wait, no response available yet |
| **103** | Early Hints | Used with Link header, preloading resources while server prepares response |
| **200** | OK | Request succeeded, depends on HTTP method, Get, Head, Put or Post, Trace |
| **201** | Created | Request succeeded, new resource created |
| **204** | No Content | Headers may be useful but no content to send |
| **307** | Temporary Redirect | Server sends this message when user is redirected to another URL |
| **308** | Permanent Redirect | The resource is permanently located at another url |
| **400** | Bad Request | Cannot process due to error |
| **404** | Not Found | Resource can not be located |
| **418** | I’m a teapot | Server refuses request “That ain’t my job” |
| **500** | Internal Server Error | There’s a problem, doesn’t know what to do |
| **501** | Not Implemented | Request not supported and can’t be handled |

**Problem 3**

In regards to HTTP Request Methods, what does **indempotent** mean?

Same request ran multiple times has same effect as only running it once

**Problem 4**

Fill out the table to indicate which are methods are safe and which are indempotent. (For reference, see [MDN docs on indempotent](https://developer.mozilla.org/en-US/docs/Glossary/Idempotent) vs [safe](https://developer.mozilla.org/en-US/docs/Glossary/Safe/HTTP).)

|  |  |  |
| --- | --- | --- |
| **HTTP Request Method** | **Safe** | **Indempotent** |
| **GET** | yes | yes |
| **PUT** | No | Yes |
| **POST** | No | No |
| **DELETE** | No | Yes |
| **OPTIONS** | Yes | Yes |
| **TRACE** | yes | yes |
| **PATCH** | No | No |

Submit