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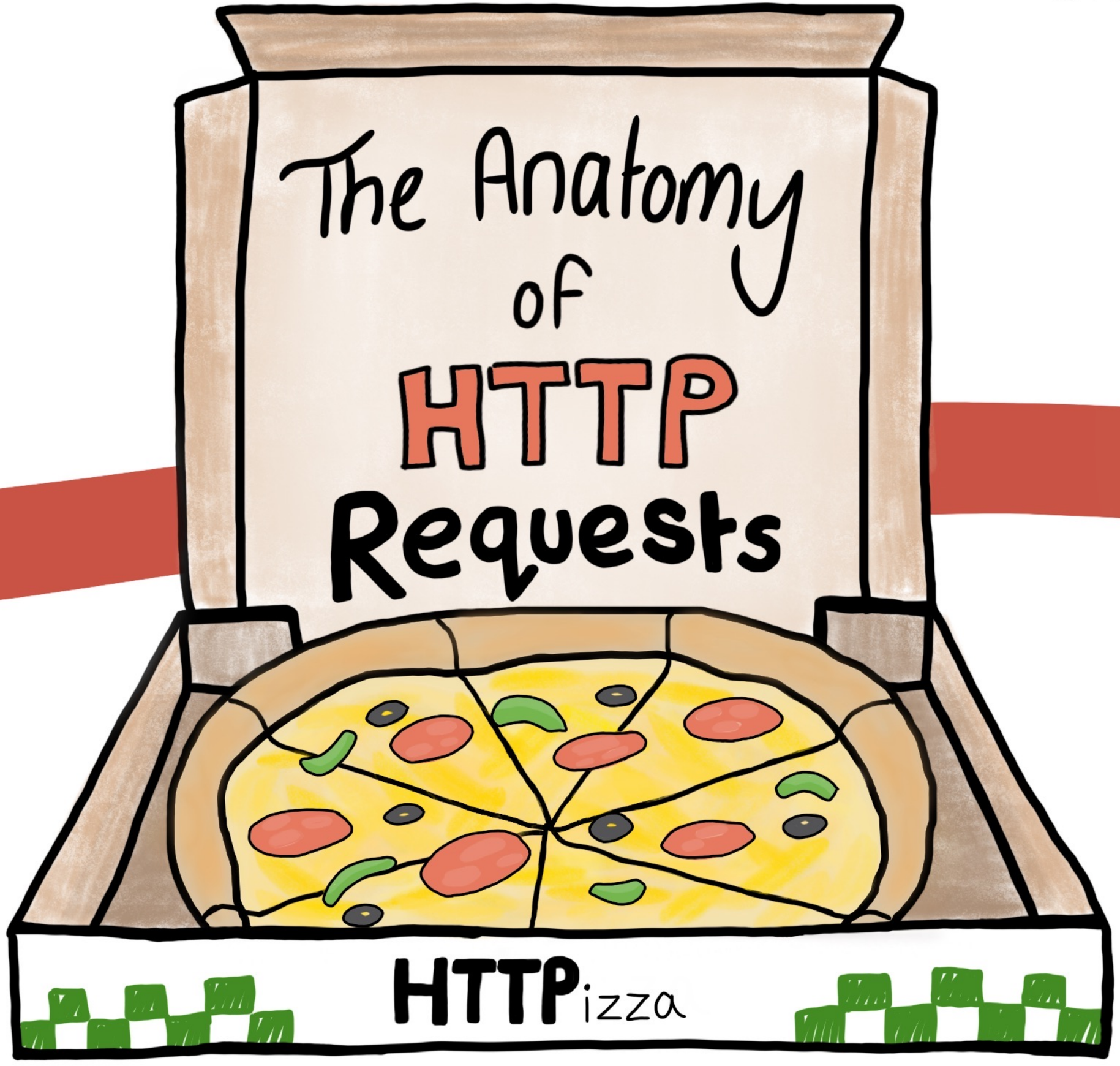
The Anatomy of HTTP Requests



HTTP Requests typically Contain 3 things:

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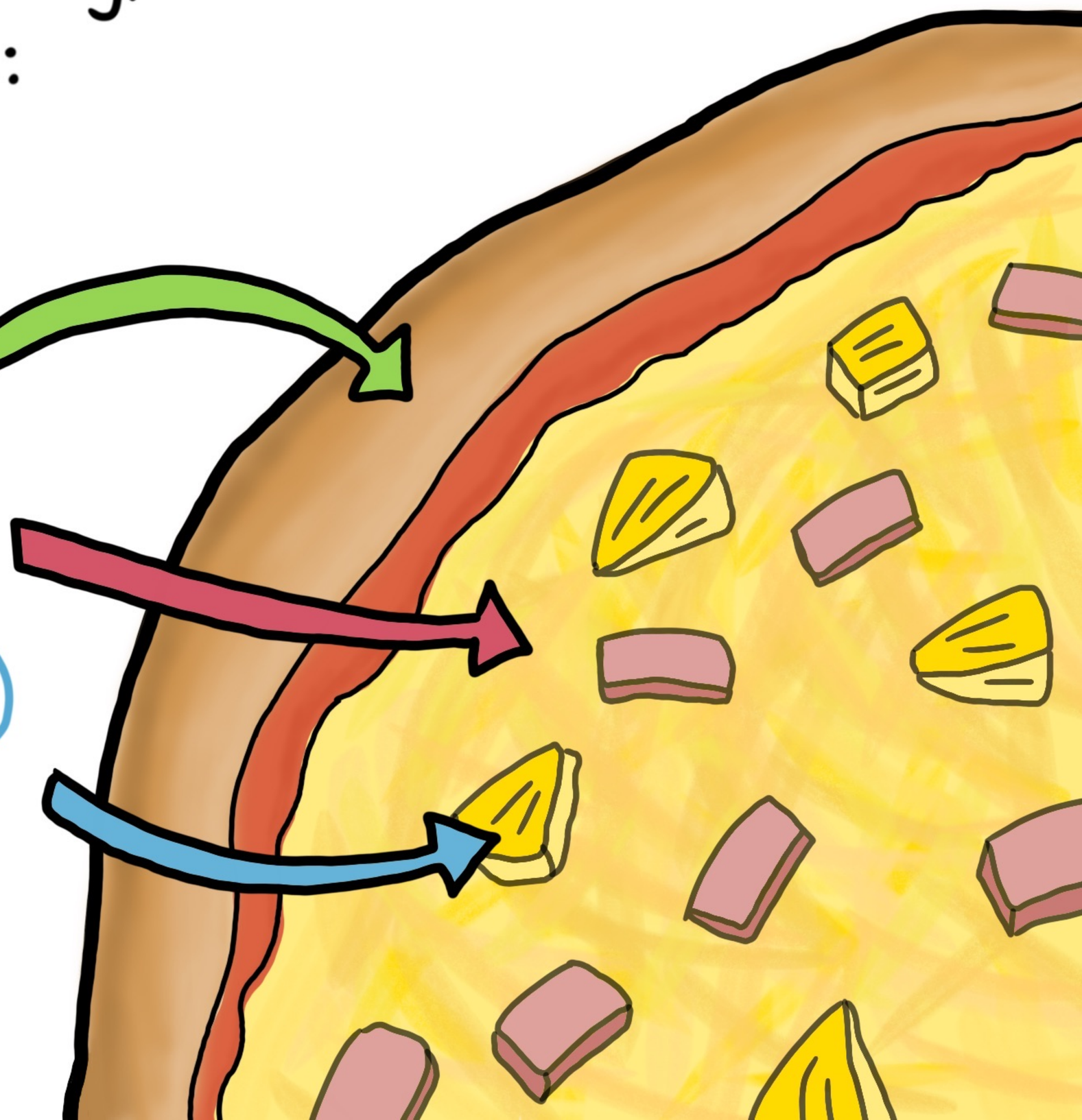
1. Request line
2. Header Fields
3. Body (optional)



1 The Request line

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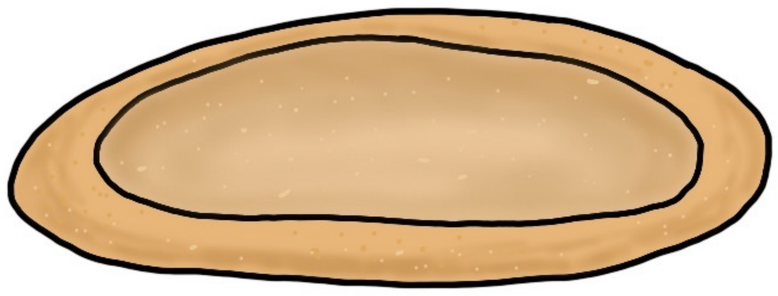
The Request line is made up of three parts shown below. You can think of it as the foundation of the request, like our pizza's base.



HTTP Method that Commands the action to the Server e.g. GET, POST, DELETE

Current HTTP version

```
GET /orders/{orderId} HTTP/1.1
```

Resource URL, locates the resource

② Header fields

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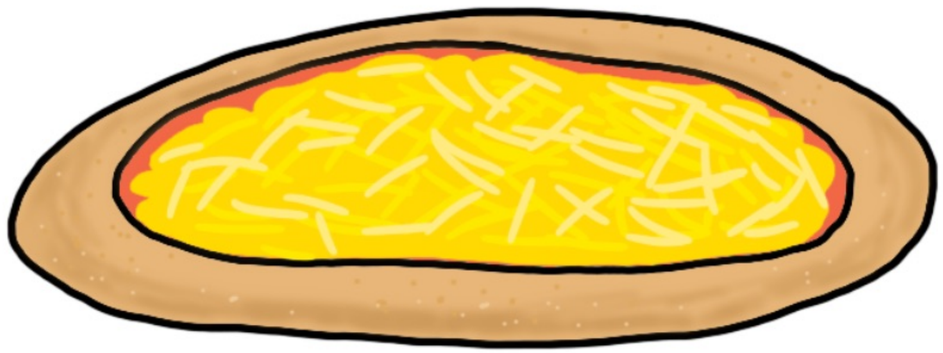
HTTP Headers provide extra information about the request to the server. There are many different headers, below is an example of some.



Indicates the data format

Content-Type: application/json

Content-Length: 30

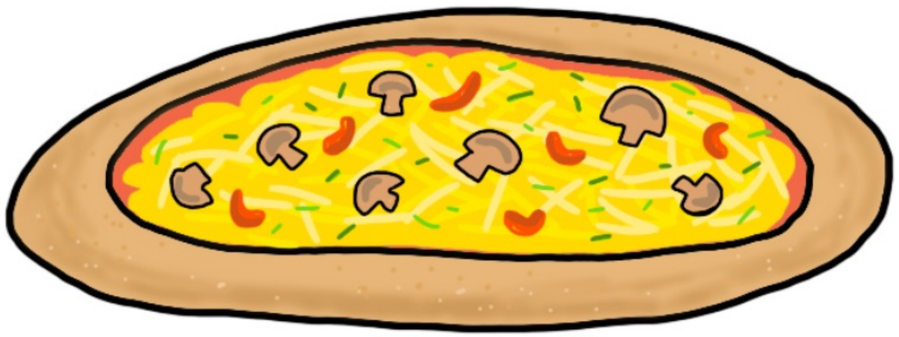
Length of data in bytes

Accept-Language: en, de

Indicates the languages accepted by the client

③ Body (data)

The body is only needed if the HTTP Method is POST, PUT, or PATCH. It contains the data being sent to the server.



For example, the body could be the details of our pizza order.

```
{ "customer": "Joe Robbins",
  "base": "standard",
  "cheese": "mozzarella",
  "toppings": "mushroom" }
```

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HTTP Request Structure in full:

Request Line
POST /orders/{orderId} HTTP/1.1

Headers
Host: httpizza.com
Content-Type: application/json
Accept-Language: en

An Empty Line always Follows HTTP Headers

JSON body
{"toppings": "mushroom"}

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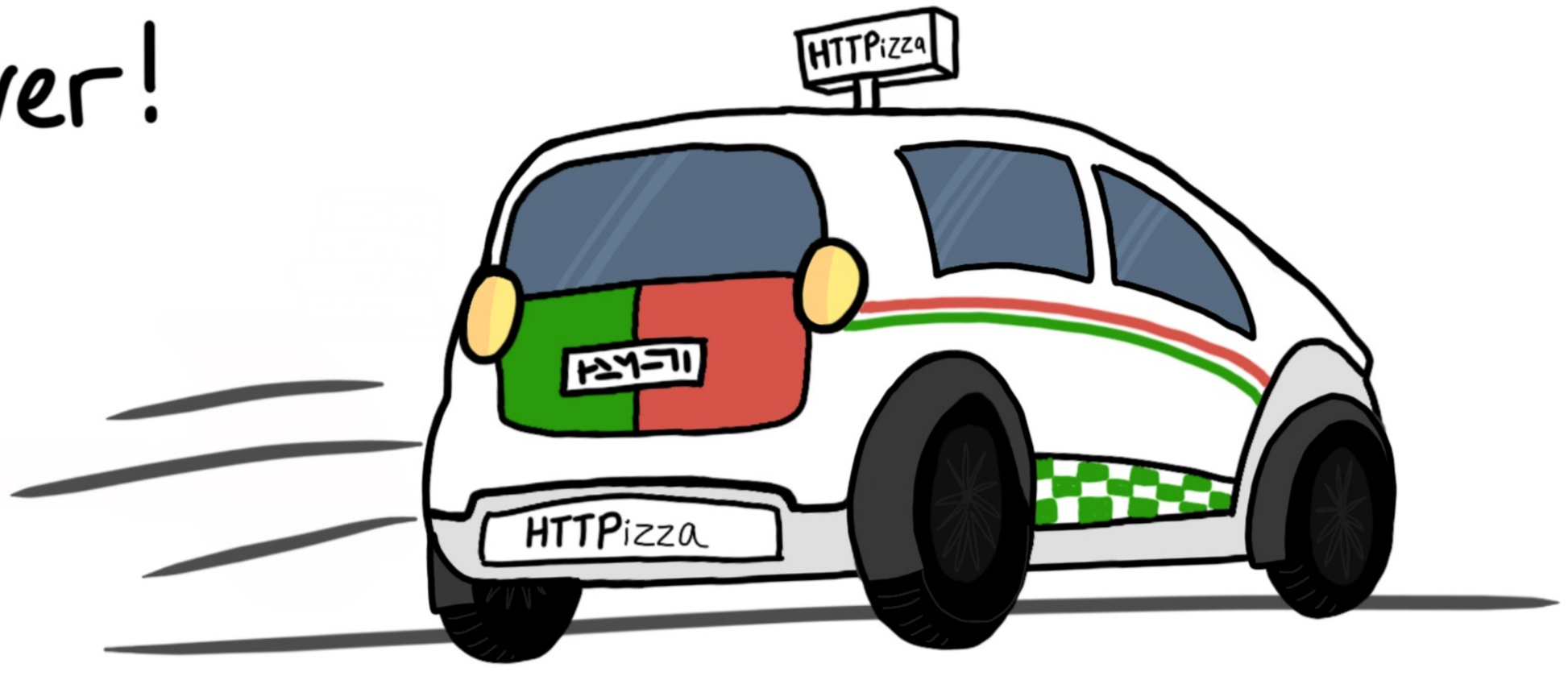
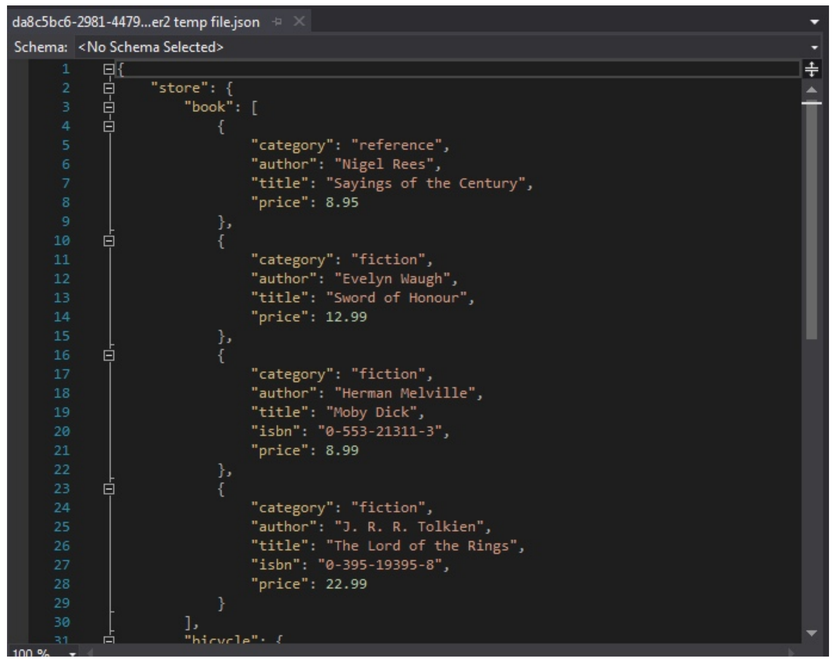
Now the request is ready to be sent to the Server!



```
{
    "count": 7,
    "items": ["socks", "pants", "shirts", "hats"],
    "manufacturer": {
        "name": "Molly's Seamstress Shop",
        "id": 39233,
        "location": {
            "address": "123 Pickleton Dr.",
            "city": "Tucson",
            "state": "AZ",
            "zip": 85705
        }
    },
    "total_price": "$393.23",
    "purchase_date": "2022-05-30",
    "country": "USA"
}
```


da8c5bc6-2981-4479...er2 temp file.json
Schema: <No Schema Selected>
{
"store": {
"book": [
{
"category": "reference",
"author": "Nigel Rees",
"title": "Sayings of the Century",
"price": 8.95
},
{
"category": "fiction",
"author": "Evelyn Waugh",
"title": "Sword of Honour",
"price": 12.99
},
{
"category": "fiction",
"author": "Herman Melville",
"title": "Moby Dick",
"isbn": "0-553-21311-3",
"price": 8.99
},
{
"category": "fiction",
"author": "J. R. R. Tolkien",
"title": "The Lord of the Rings",
"isbn": "0-395-19395-8",
"price": 22.99
}
],
"bicycle": {
100 %