

Roshan Poudel LAB 04 part 02

Q. Find and record the field names (think maps, again) and the type of data in them. You might recognize the contents of the first field as HTML. Also, look at the value associated with the body key and record the text in the title tag.

The field names for %HTTPoison.Response are:

- status_code -> Integer (eg. 404 if page not found)
- body -> String (HTML in this case)
- headers -> List containing Tuples
- request_url -> String
- request -> struct with fields like method, url, headers, body, params, options

All other recordings are in the following code block:

```
iex(4)> HTTPoison.get! "http://scarl.sewanee.edu"
%HTTPoison.Response{
  status_code: 301,
  body: "<!DOCTYPE HTML PUBLIC \"-//IETF//DTD HTML 2.0//EN\">\n<html><head>\n<title>301 Move
  headers: [
    {"Date", "Thu, 17 Oct 2024 17:11:03 GMT"},
    {"Server", "Apache"},
    {"X-Frame-Options", "SAMEORIGIN"},
    {"Location", "https://scarl.sewanee.edu"},
    {"Content-Length", "233"},
    {"Content-Type", "text/html; charset=iso-8859-1"}
  ],
  request_url: "http://scarl.sewanee.edu",
  request: %HTTPoison.Request{
    method: :get,
    url: "http://scarl.sewanee.edu",
    headers: [],
    body: "",
    params: %{},
    options: []
  }
}
```

```
iex(5)> response = HTTPoison.get! "https://scarl.sewanee.edu"
%HTTPoison.Response{
  status_code: 200,
  body: "<!DOCTYPE html PUBLIC \"-//w3c//dtd html 4.0 transitional//en\">\r<html>\r <head>
  headers: [
    {"Date", "Thu, 17 Oct 2024 17:12:29 GMT"},
  ]
}
```

```

{"Server", "Apache"},
{"X-Frame-Options", "SAMEORIGIN"},
{"Strict-Transport-Security", "max-age=15552000; includeSubDomains"},
{"Last-Modified", "Tue, 27 Aug 2024 15:59:46 GMT"},
{"ETag", "\"1814-620ac54a1331d\""},
{"Accept-Ranges", "bytes"},
{"Content-Length", "6164"},
{"Content-Type", "text/html; charset=UTF-8"}
],
request_url: "https://scarl.sewanee.edu",
request: %HTTPoison.Request{
  method: :get,
  url: "https://scarl.sewanee.edu",
  headers: [],
  body: "",
  params: %{},
  options: []
}
}

```

```

iex(6)> response.headers
[
  {"Date", "Thu, 17 Oct 2024 17:12:29 GMT"},
  {"Server", "Apache"},
  {"X-Frame-Options", "SAMEORIGIN"},
  {"Strict-Transport-Security", "max-age=15552000; includeSubDomains"},
  {"Last-Modified", "Tue, 27 Aug 2024 15:59:46 GMT"},
  {"ETag", "\"1814-620ac54a1331d\""},
  {"Accept-Ranges", "bytes"},
  {"Content-Length", "6164"},
  {"Content-Type", "text/html; charset=UTF-8"}
]

```

```

response = HTTPoison.get! "https://roshanpoudel.vercel.app/"
%HTTPoison.Response{
  status_code: 200,
  body: "<!DOCTYPE html><html lang=\"en\" class=\"!scroll-smooth\"><head><meta charSet=\"utf-8\"></head><body></body></html>",
  headers: [
    {"Age", "0"},
    {"Cache-Control", "private, no-cache, no-store, max-age=0, must-revalidate"},
    {"Content-Type", "text/html; charset=utf-8"},
    {"Date", "Thu, 17 Oct 2024 17:26:50 GMT"},
    {"Server", "Vercel"},
    {"Strict-Transport-Security",
      "max-age=63072000; includeSubDomains; preload"},
    {"Vary", "RSC, Next-Router-State-Tree, Next-Router-Prefetch"},

```

```

        {"X-Matched-Path", "/"},
        {"X-Powered-By", "Next.js"},
        {"X-Vercel-Cache", "MISS"},
        {"X-Vercel-Id", "iad1::iad1::jh6cq-1729186010804-71204e13eaff"},
        {"Transfer-Encoding", "chunked"}
    ],
    request_url: "https://roshanpoudel.vercel.app/",
    request: %HTTPoison.Request{
        method: :get,
        url: "https://roshanpoudel.vercel.app/",
        headers: [],
        body: "",
        params: %{},
        options: []
    }
}

iex(14)> response.request_url
"https://roshanpoudel.vercel.app/"

iex(15)> response.status_code
200

iex(16)> response = HTTPoison.get! "thiswebdoesnotworkk.com"
** (HTTPoison.Error) :nxdomain
    (httpoison 1.8.2) lib/httpoison.ex:258: HTTPoison.request!/5
    iex:13: (file)

iex(17)> response = HTTPoison.get "https://roshanpoudel.vercel.app/"
{:ok,
 %HTTPoison.Response{
   status_code: 200,
   body: "<!DOCTYPE html><html lang=\"en\" class=\"!scroll-smooth\"><head><meta charSet=\"ut",
   headers: [
     {"Age", "0"},
     {"Cache-Control",
      "private, no-cache, no-store, max-age=0, must-revalidate"},
     {"Content-Type", "text/html; charset=utf-8"},
     {"Date", "Thu, 17 Oct 2024 17:29:20 GMT"},
     {"Server", "Vercel"},
     {"Strict-Transport-Security",
      "max-age=63072000; includeSubDomains; preload"},
     {"Vary", "RSC, Next-Router-State-Tree, Next-Router-Prefetch"},
     {"X-Matched-Path", "/"},
     {"X-Powered-By", "Next.js"},

```

```

      {"X-Vercel-Cache", "MISS"},
      {"X-Vercel-Id", "iad1::iad1::bhkk9-1729186160639-9760a5432d57"},
      {"Transfer-Encoding", "chunked"}
    ],
    request_url: "https://roshanpoudel.vercel.app/",
    request: %HTTPoison.Request{
      method: :get,
      url: "https://roshanpoudel.vercel.app/",
      headers: [],
      body: "",
      params: %{},
      options: []
    }
  }
}
}}
iex(19)> response = HTTPoison.get "https://roshanpoudelesfdsf.com"
{:error, %HTTPoison.Error{reason: :nxdomain, id: nil}}
iex(20)> response = HTTPoison.get "https://roshanpoudelesfdsf.com"
{:error, %HTTPoison.Error{reason: :nxdomain, id: nil}}

iex(20)> HTTPoison.get "http://127.0.0.1"
{:error, %HTTPoison.Error{reason: :econnrefused, id: nil}}
iex(21)> HTTPoison.get "https://127.0.0.1"
{:error, %HTTPoison.Error{reason: :econnrefused, id: nil}}
iex(22)> HTTPoison.get! "http://127.0.0.1"
** (HTTPoison.Error) :econnrefused
    (httpoison 1.8.2) lib/httpoison.ex:258: HTTPoison.request!/5
    iex:22: (file)
iex(22)> HTTPoison.get! "https://127.0.0.1"
** (HTTPoison.Error) :econnrefused
    (httpoison 1.8.2) lib/httpoison.ex:258: HTTPoison.request!/5
    iex:22: (file)
iex(22)> HTTPoison.get "http://api.github.com/repos/elixir-lang/elixir/issues"
{:ok,
 %HTTPoison.Response{
   status_code: 301,
   body: "",
   headers: [
     {"Content-Length", "0"},
     {"Location", "https://api.github.com/repos/elixir-lang/elixir/issues"}
   ],
   request_url: "http://api.github.com/repos/elixir-lang/elixir/issues",
   request: %HTTPoison.Request{
     method: :get,
     url: "http://api.github.com/repos/elixir-lang/elixir/issues",
     headers: [],

```

```

        body: "",
        params: %{},
        options: []
    }
}
}}
iex(23)> HTTPPoison.get "https://api.github.com/repos/elixir-lang/elixir/issues"
{:ok,
 %HTTPPoison.Response{
   status_code: 200,
   body: "[{\\"url\\":\\"https://api.github.com/repos/elixir-lang/elixir/issues/13912\\",\\"repos",
   headers: [
     {"Date", "Thu, 17 Oct 2024 17:45:43 GMT"},
     {"Content-Type", "application/json; charset=utf-8"},
     {"Cache-Control", "public, max-age=60, s-maxage=60"},
     {"Vary", "Accept,Accept-Encoding, Accept, X-Requested-With"},
     {"ETag",
      "W/\\"ad89ea5c1e2779febfc04026bf406b8ffaed167a8194dec9ebf83bdfb949f185\\""},
     {"X-GitHub-Media-Type", "github.v3; format=json"},
     {"x-github-api-version-selected", "2022-11-28"},
     {"Access-Control-Expose-Headers",
      "ETag, Link, Location, Retry-After, X-GitHub-OTP, X-RateLimit-Limit, X-RateLimit-Remain",
     {"Access-Control-Allow-Origin", "*"},
     {"Strict-Transport-Security",
      "max-age=31536000; includeSubdomains; preload"},
     {"X-Frame-Options", "deny"},
     {"X-Content-Type-Options", "nosniff"},
     {"X-XSS-Protection", "0"},
     {"Referrer-Policy",
      "origin-when-cross-origin, strict-origin-when-cross-origin"},
     {"Content-Security-Policy", "default-src 'none'"},
     {"Server", "github.com"},
     {"X-RateLimit-Limit", "60"},
     {"X-RateLimit-Remaining", "59"},
     {"X-RateLimit-Reset", "1729190743"},
     {"X-RateLimit-Resource", "core"},
     {"X-RateLimit-Used", "1"},
     {"Accept-Ranges", "bytes"},
     {"Transfer-Encoding", "chunked"},
     {"X-GitHub-Request-Id", "28A0:196D71:5F228:B59C9:67114D47"}
   ],
   request_url: "https://api.github.com/repos/elixir-lang/elixir/issues",
   request: %HTTPPoison.Request{
     method: :get,
     url: "https://api.github.com/repos/elixir-lang/elixir/issues",
     headers: [],
     body: "",

```

```
    params: %{},  
    options: []  
  }  
}}
```