

Ejercicio Protocolos de Comunicación

Estructura:

- Clase Main
 - Socket a la Web de la Universidad
 - Seguir protocolo para obtener el index de la web
 - Mandamos mensaje de petición a la web de la universidad:
 - Primera línea:
 - Cabecera:
 - CRLF
 - Entity Body:

Para mayor facilidad la clase se implementará como un Hilo

Obtener cabecera

Para obtener la cabecera usamos firefox en modo para desarrolladores, vamos a la pestaña de red y seleccionamos la URL de la Web en cuestión:

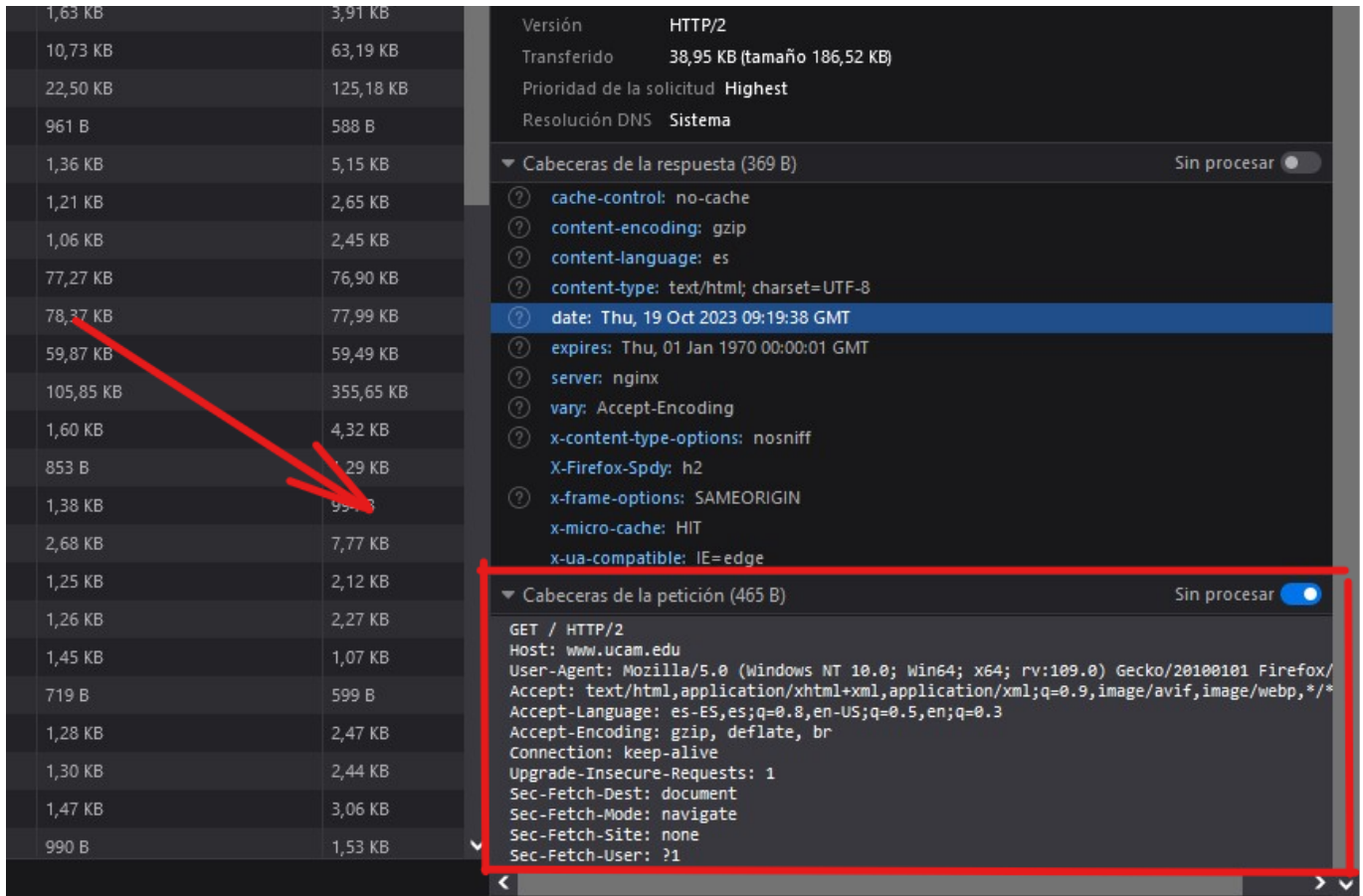
The screenshot shows the Firefox Developer Tools interface. The top part displays the UCAM website. The bottom part shows the Network tab with a list of requests. The selected request is a GET request to https://www.ucam.edu. The Headers panel on the right shows the request headers for this request.

| Estado | Método | Dominio | Archivo | Iniciador | Tipo | Transferido | Tamaño |
|--------|--------|--------------|--|------------|------|-------------|-----------|
| 200 | GET | ucam.edu | / | document | html | 38,06 KB | 186,52 KB |
| 200 | GET | www.ucam.edu | / | document | html | 38,95 KB | 186,52 KB |
| 200 | GET | www.ucam.edu | css_ifuz2hPigECfB2jrdtJSTbN2BjPpeubQpQjwebQ.css | stylesheet | css | 1,21 KB | 2,49 KB |
| 200 | GET | www.ucam.edu | css_EhWVlPjme9211UFGwvaptHGSAI.b3ggo5Kro5FFk.css | stylesheet | css | 1,63 KB | 3,91 KB |
| 200 | GET | www.ucam.edu | css_Zh86CDCFOjpmenpmnWlBaDvJ_3iD2TDrqL49z2GGA.css | stylesheet | css | 10,73 KB | 63,19 KB |
| 200 | GET | www.ucam.edu | css_uk_bqshIHdJUN7v-DiEnY55X8uafdfteRkdmocCEca.css | stylesheet | css | 22,50 KB | 125,18 KB |
| 200 | GET | www.ucam.edu | bandera-es.svg | img | svg | 961 B | 588 B |
| 200 | GET | www.ucam.edu | bandera-en.svg | img | svg | 1,36 KB | 5,15 KB |
| 200 | GET | www.ucam.edu | bandera-zh.svg | img | svg | 1,21 KB | 2,65 KB |
| 200 | GET | www.ucam.edu | bandera-it.svg | img | svg | 1,06 KB | 2,45 KB |
| 200 | GET | www.ucam.edu | lidera-tu-futuro_desktop-ru.webp | imageset | webp | 77,27 KB | 76,90 KB |
| 200 | GET | www.ucam.edu | formacion-previa_desktop-ru.webp | webp | webp | 78,37 KB | 77,99 KB |
| 200 | GET | www.ucam.edu | visita-guia-da_desktop-ru.webp | imageset | webp | 59,87 KB | 59,49 KB |
| 200 | GET | www.ucam.edu | js_gRMB87j35yW4QD4bR3hQmX9G45Wgpxnkr7pg8t4L.js | script | js | 105,85 KB | 355,65 KB |
| 200 | GET | www.ucam.edu | section-busador-estudios.js?2rq93 | script | js | 1,60 KB | 4,32 KB |
| 200 | GET | www.ucam.edu | section-card-carousel.js?2rq93 | script | js | 853 B | 1,29 KB |
| 200 | GET | www.ucam.edu | section-carousel.js?2rq93 | script | js | 1,38 KB | 994 B |
| 200 | GET | www.ucam.edu | section-stories.js?2rq93 | script | js | 2,69 KB | 7,77 KB |
| 200 | GET | www.ucam.edu | js_s0-0vaZau0jPHhQDUNGNv877J-U9Q2C7Gc4hQ.js | script | js | 1,25 KB | 2,12 KB |
| 200 | GET | www.ucam.edu | section-carousel-feature.js?2rq93 | script | js | 1,26 KB | 2,27 KB |
| 200 | GET | www.ucam.edu | section-our-number.js?2rq93 | script | js | 1,45 KB | 1,07 KB |
| 200 | GET | www.ucam.edu | js_7JBDVfEdhQZEmVZU0hTK0Ypp_E_ofgRiZKw_RTE0M.js | script | js | 719 B | 599 B |
| 200 | GET | www.ucam.edu | di-modal.js?2rq93 | script | js | 1,28 KB | 2,47 KB |
| 200 | GET | www.ucam.edu | js_0C8ZmRZ3h09G1HtITMBRIZh26u0nif0jagp9.js | script | js | 1,30 KB | 2,44 KB |
| 200 | GET | www.ucam.edu | di-off-canvas.js?2rq93 | script | js | 1,47 KB | 3,06 KB |
| 200 | GET | www.ucam.edu | di-dropdown.js?2rq93 | script | js | 990 B | 1,53 KB |

The Headers panel for the selected request shows the following headers:

- Cache-control: no-cache
- Content-encoding: gzip
- Content-language: es
- Content-type: text/html; charset=UTF-8
- Date: Thu, 19 Oct 2023 09:19:38 GMT
- Expires: Thu, 01 Jan 1970 00:00:01 GMT
- Server: nginx
- Vary: Accept-Encoding
- X-content-type-options: nosniff
- X-frame-options: SAMEORIGIN
- X-micro-cache: HIT
- X-ua-compatible: IE=edge

Tras eso le damos Sin Procesar y podremos ver el mensaje de petición:



Implementación:

```
package protocolos;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.OutputStreamWriter;
import java.io.PrintWriter;
import java.net.Socket;

public class PeticionUniversidad extends Thread{
    private BufferedReader br = null;
    public PeticionUniversidad(BufferedReader br) { //Constructor de lcase
        this.br = br;
    }
    public void run() { //Acción a realizar por el thread
        String linea = "";
        try {
            while((linea = br.readLine()) != null) {
                System.out.println(linea);
            }
        } catch (IOException e) {
            System.out.println("Error de salida");
            e.printStackTrace();
        }
    }
}
```

```
public static void main(String[] args) {
    try {
        Socket socket = new Socket("www.ucam.edu", 80 );//conectamos con
un socket a la web
        System.out.println("[OK]");
        //Implementamos buffers:
        BufferedReader br = new BufferedReader(new
InputStreamReader(socket.getInputStream()));
        PrintWriter pw = new PrintWriter(new
OutputStreamWriter(socket.getOutputStream()));
        PeticionUniversidad cliente = new
PeticionUniversidad(br);//Instanciamos la clase
        cliente.start();//Iniciamos el Thread
        //A continuación implementamos el mensaje de solicitud:
        pw.println("GET / HTTP/1.1"); pw.flush();
        pw.println("Host: www.ucam.edu");pw.flush();
        pw.println("Connection: close");pw.flush();
        pw.println();pw.flush();
        //Nos va a devolver un Error 301
    }catch (IOException e) {
        System.out.println("Error en el Main");
        e.printStackTrace();
    }
}
}
```

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