

# Usage: How can I generate HMAC Muse Proxy proxified links in Java?

The instructions and code provided below are based on the following assumptions:

- `MuseProxyFoundationHMAC` is the Muse Proxy application configured with HMAC authentication;
- `quiet` is the value of the secret;
- `userName` and `timestamp` are the signature parameters;
- `SHA256` is the algorithm;
- the separator between the signature parameters is . .

Integrate the following code into your Java project:

```
package com.edulib.muse.proxy.samples;
```

```
import java.io.IOException;
import java.io.PrintWriter;
import java.util.LinkedHashMap;
```

```
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
@WebServlet("/index")
public class Index extends HttpServlet {
    private static final long serialVersionUID = 1L;
```

```
/**
 * Default constructor.
 */
public Index() {
    // TODO Auto-generated constructor stub
}
```

```
/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    response.setContentType("text/html");
```

```
String algorithm = "HmacSHA256";
String secret = "quiet";
String proxyURL = "http://MUSE_PROXY_HOST:PORT";
String applicationID = "MuseProxyFoundationHMAC";
String separator = ".";
```

```
// timestamp represent the current UNIX timestamp
```

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```
String timestamp = "" + System.currentTimeMillis() / 1000L;
// referer is the referer from request
String referer = request.getRequestURL().toString();
// userAdres is IP adress for user from request
String userAddress = request.getRemoteAddr();
// userAgent is userAgent from request header
String userAgent = request.getHeader("user-agent");
```

```
LinkedHashMap<String, String> parameters = new LinkedHashMap<String, String>();
parameters.put("userName", "test");
parameters.put("ts", timestamp);
parameters.put("referer", referer);
parameters.put("userAddress", userAddress);
parameters.put("userAgent", userAgent);
```

```
MuseProxyHMAC museProxyHMAC = new MuseProxyHMAC(proxyURL, applicationID, secret,
algorithm, separator, parameters);
```

```
PrintWriter out = response.getWriter();
out.print("<a href= / "" + museProxyHMAC.generatedURL + " /" target= / "_blank /">" +
museProxyHMAC.generatedURL + "</a>");
```

```
}
```

```
}
```

where replace `MUSE_PROXY_HOST:PORT` with your actual Muse Proxy host and port.

The additional file `MuseProxyHMAC.java` that needs to be integrated into your Java project can be downloaded from [here](#).

Unique solution ID: #1194

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Last update: 2017-05-23 12:31