

Assignment No.6

Problem Statement:

Write a program in java to analyze the email header.

Theory:

How to access the Message Header

Most mail clients allow access to the message header. The following list contains a few popular mail and web mail clients. Please refer to the manual of your mail client if your mail client is not included in this list.

- **View the Message Header in Google Mail (Gmail) Webmail:**

Login to your account on the webpage and open the message (click on it). Click on the "down-arrow" on the top-right of the message and select "Show Original". Now you will see the complete message source.

- **View the Message Header in Yahoo! Mail Webmail:**

Login to your account on the webpage and open the message (click on it). Click on "Actions" and select "View Full Header".

- **View the Message Header in Hotmail Webmail:**

Login to your account on the webpage and go to the message list. Right-click on the message and select "View Message Source".

Standard Message Header Fields

Sample Message Header:

```
Return-path: <sender@senderdomain.tld>
Delivery-date: Wed, 13 Apr 2011 00:31:13 +0200
(3)Received: from mailexchanger.recipientdomain.tld([ccc.ccc.ccc.ccc])
by mailserver.recipientdomain.tld running ExIM with esmtp
id xxxxxx-xxxxxx-xxx; Wed, 13 Apr 2011 01:39:23 +0200
(2)Received: from mailserver.senderdomain.tld ([bbb.bbb.bbb.bbb] helo=mailserver.senderdomain.tld)
by mailexchanger.recipientdomain.tld with esmtp id xxxxxx-xxxxxx-xx
for recipient@recipientdomain.tld; Wed, 13 Apr 2011 01:39:23 +0200
(1)Received: from senderhostname [aaa.aaa.aaa.aaa] (helo=[senderhostname])
by mailserver.senderdomain.tld with esmtpa (Exim x.xx)
(envelope-from <sender@senderdomain.tld>) id xxxxx-xxxxxx-xxxx
for recipient@recipientdomain.tld; Tue, 12 Apr 2011 20:36:08 -0100
Message-ID: <xxxxxxxxxxxxxx@senderdomain.tld>
```

Date: Tue, 12 Apr 2011 20:36:01 -0100

X-Mailer: Mail Client

From: Sender Name <sender@senderdomain.tld>

To: Recipient Name <recipient@recipientdomain.tld>

Subject: Message Subject

- Return Path: The email address which should be used for bounces. The mail server will send a message to the specified email address if the message cannot be delivered
- Delivery-date: The data the message was delivered
- Date: The date the message was sent
- Message-ID: The ID of the message
- X-Mailer: The mail client (mail program) used to send the message
- From: The message sender in the format: "Friendly Name" <email@address.tld>
- To: The message recipient in the format: "Friendly Name" <email@address.tld>
- Subject: The message subject

Return-Path: <bogdan@fx.ro>

Received: from srv01.advenzia.com (root@localhost)

by emailaddressmanager.com (8.11.6/8.11.6) with ESMTP id i2OApwQ14083

for <support@emailaddressmanager.com>; Wed, 24 Mar 2004 10:51:58 GMT

X-ClientAddr: 193.231.208.29

Received: from corporate.fx.ro (corporate.fx.ro [193.231.208.29])

by srv01.advenzia.com (8.11.6/8.11.6) with ESMTP id i2OApvs14078

for <support@emailaddressmanager.com>; Wed, 24 Mar 2004 10:51:57 GMT

Received: from mail.fx.ro (mail3.fx.ro [193.231.208.3])

by corporate.fx.ro (8.12.11/8.12.7) with ESMTP id i2OAtxBr025924

for <support@emailaddressmanager.com>; Wed, 24 Mar 2004 12:55:59 +0200

Received: from localhost.localdomain (corporate2.fx.ro [193.231.208.28])

by mail.fx.ro (8.12.11/8.12.3) with ESMTP id i2OAtoQe006624

for <support@emailaddressmanager.com>; Wed, 24 Mar 2004 12:55:50 +0200

Date: Wed, 24 Mar 2004 12:55:50 +0200

Message-Id: <200403241055.i2OAtoQe006624@mail.fx.ro>

Content-Disposition: inline

Content-Transfer-Encoding: binary

MIME-Version: 1.0

To: support@emailaddressmanager.com

Subject: How to read email headers

From: bogdan@fx.ro

Reply-To: bogdan@fx.ro

Content-Type: text/plain; charset=us-ascii

X-Originating-Ip: [80.97.5.101]

X-Mailer: FX Webmail webmail.fx.ro

X-RAVMilter-Version: 8.4.3(snapshot 20030212) (mail)

Status:

Conclusion

Hence, we have studied and successfully implemented program to analyzed email header.