

JAVAMAIL API - FORWARDING EMAILS

http://www.tutorialspoint.com/javamail_api/javamail_api_forwarding_emails.htm

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In this chapter we will see how to forward an email using JavaMail API. Basic steps followed in the program below are:

- Get the Session object with POP and SMPT server details in the properties. We would need POP details to retrieve messages and SMPT details to send messages.
- Create POP3 store object and connect to the store.
- Create Folder object and open the appropriate folder in your mailbox.
- Retrieve messages.
- Iterate through the messages and type "Y" or "y" if you want to forward.
- Get all information *To, From, Subject, Content* of the message.
- Build the forward message by working with the parts that make up a message. First part would be the text of the message and a second part would be the message to forward. Combine the two into a multipart. Then you add the multipart to a properly addressed message and send it.
- Close the Transport, folder and store objects respectively.

Here we have used JangoSMTP server via which emails are sent to our destination email address. The setup is explained in the [Environment Setup](#) chapter.

Create Java Class

Create a java class file **ForwardEmail**, the contents of which are as follows:

```
package com.tutorialspoint;

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.Date;
import java.util.Properties;

import javax.mail.BodyPart;
import javax.mail.Folder;
import javax.mail.Message;
import javax.mail.Multipart;
import javax.mail.PasswordAuthentication;
import javax.mail.Session;
import javax.mail.Store;
import javax.mail.Transport;
import javax.mail.internet.InternetAddress;
import javax.mail.internet.MimeBodyPart;
import javax.mail.internet.MimeMessage;
import javax.mail.internet.MimeMultipart;

public class ForwardEmail {

    public static void main(String[] args) {
        Properties properties = new Properties();
        properties.put("mail.store.protocol", "pop3");
        properties.put("mail.pop3s.host", "pop.gmail.com");
        properties.put("mail.pop3s.port", "995");
        properties.put("mail.pop3.starttls.enable", "true");
        properties.put("mail.smtp.auth", "true");
        properties.put("mail.smtp.host", "relay.jangosmtp.net");
```

```

properties.put("mail.smtp.port", "25");
Session session = Session.getDefaultInstance(properties);
try {
    // session.setDebug(true);
    // Get a Store object and connect to the current host
    Store store = session.getStore("pop3s");
    store.connect("pop.gmail.com", "xyz@gmail.com",
        "*****");//change the user and password accordingly

    // Create a Folder object and open the folder
    Folder folder = store.getFolder("inbox");
    folder.open(Folder.READ_ONLY);
    BufferedReader reader = new BufferedReader(new InputStreamReader(
        System.in));
    Message[] messages = folder.getMessages();
    if (messages.length != 0) {

        for (int i = 0, n = messages.length; i < n; i++) {
            Message message = messages[i];
            // Get all the information from the message
            String from = InternetAddress.toString(message.getFrom());
            if (from != null) {
                System.out.println("From: " + from);
            }
            String replyTo = InternetAddress.toString(message
                .getReplyTo());
            if (replyTo != null) {
                System.out.println("Reply-to: " + replyTo);
            }
            String to = InternetAddress.toString(message
                .getRecipients(Message.RecipientType.TO));
            if (to != null) {
                System.out.println("To: " + to);
            }

            String subject = message.getSubject();
            if (subject != null) {
                System.out.println("Subject: " + subject);
            }
            Date sent = message.getSentDate();
            if (sent != null) {
                System.out.println("Sent: " + sent);
            }
            System.out.print("Do you want to reply [y/n] : ");
            String ans = reader.readLine();
            if ("y".equals(ans) || "y".equals(ans)) {
                Message forward = new MimeMessage(session);
                // Fill in header
                forward.setRecipients(Message.RecipientType.TO,
                    InternetAddress.parse(from));
                forward.setSubject("Fwd: " + message.getSubject());
                forward.setFrom(new InternetAddress(to));

                // Create the message part
                MimeBodyPart messageBodyPart = new MimeBodyPart();
                // Create a multipart message
                Multipart multipart = new MimeMultipart();
                // set content
                messageBodyPart.setContent(message, "message/rfc822");
                // Add part to multi part
                multipart.addBodyPart(messageBodyPart);
                // Associate multi-part with message
                forward.setContent(multipart);
                forward.saveChanges();

                // Send the message by authenticating the SMTP server
                // Create a Transport instance and call the sendMessage
                Transport t = session.getTransport("smtp");
                try {

```

```

        //connect to the smpt server using transport instance
        //change the user and password accordingly
        t.connect("abc", "*****");
        t.sendMessage(forward, forward.getAllRecipients());
    } finally {
        t.close();
    }

    System.out.println("message forwarded successfully....");

    // close the store and folder objects
    folder.close(false);
    store.close();
} // end if

} // end for
} // end if
} catch (Exception e) {
    e.printStackTrace();
}
}
}

```

| You can set the debug on by uncommenting the statement `session.setDebugtrue;`

Compile and Run

Now that our class is ready, let us compile the above class. I've saved the class `ForwardEmail.java` to directory : **/home/manisha/JavaMailAPIExercise**. We would need the jars `javax.mail.jar` and `activation.jar` in the classpath. Execute the command below to compile the class
both the jars are placed in /home/manisha/directory from command prompt:

```
javac -cp /home/manisha/activation.jar:/home/manisha/javax.mail.jar: ForwardEmail.java
```

Now that the class is compiled, execute the following command to run:

```
java -cp /home/manisha/activation.jar:/home/manisha/javax.mail.jar: ForwardEmail
```

Verify Output

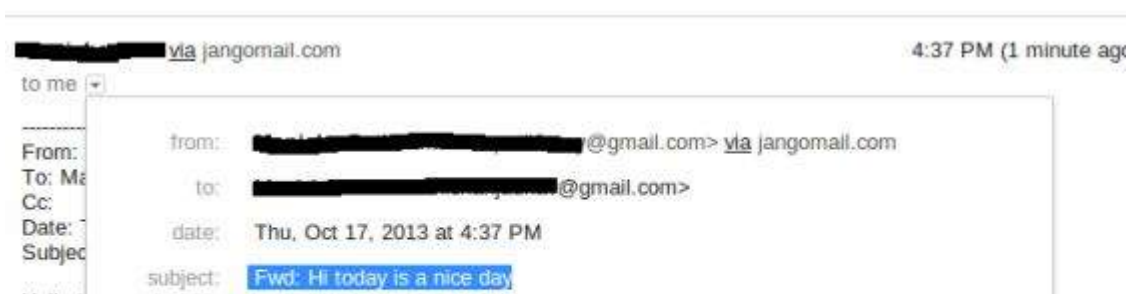
You should see the following message on the command console:

```

From: ABC <abc@gmail.com>
Reply-to: abc@trioteksolutions.com
To: XYZ <xyz@gmail.com>
Subject: Hi today is a nice day
Sent: Thu Oct 17 15:58:37 IST 2013
Do you want to reply [y/n] : y
message forwarded successfully....

```

Check the inbox to which the mail was sent. In our case the forwarded message would look as below:



Regard
XYZ

mailed-by: jangomail.com

Important mainly because of your interaction with messages in the conversation.

Hi today is a nice day  Inbox x



██████████ via jangomail.com

to me ▾

----- Forwarded message -----

From: ██████████@gmail.com>

To: ██████████@gmail.com>

Cc:

Date: Thu, 17 Oct 2013 15:58:37 +0530

Subject: Hi today is a nice day

Hello to day is a noce day

Regards

XYZ

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