JAVAMAIL API - CHECKING EMAILS

There are two aspects to which needs to understood before proceeding with this chapter. They are **Check** and **Fetch**.

- **Check**ing an email in JavaMail is a process where we open the respective folder in the mailbox and get each message. Here we only check the header of each message i.e the *From, To, subject*. Content is not read.
- **Fetch**ing an email in JavaMail is a process where we open the respective folder in the mailbox and get each message. Alongwith the header we also read the content by recognizing the content-type.

To check or fetch an email using JavaMail API, we would need POP or IMAP servers. To check and fetch the emails, Folder and Store classes are needed. Here we have used GMAIL's POP3 server *pop. gmail. com*. In this chapter will learn how to check emails using JavaMail API. Fetching shall be covered in the subsequent chapters. To check emails:

- Get a Session
- Create pop3 Store object and connect with pop server.
- Create folder object. Open the appropriate folder in your mailbox.
- Get your messages.
- Close the Store and Folder objects.

Create Java Class

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

```
package com.tutorialspoint;

import java.util.Properties;

import javax.mail.Folder;
import javax.mail.Message;
import javax.mail.MessagingException;
import javax.mail.NoSuchProviderException;
import javax.mail.Session;
import javax.mail.Store;

public class CheckingMails {

   public static void check(String host, String storeType, String user,
      String password)
   {
      try {

      //create properties field
      Properties properties = new Properties();

      properties.put("mail.pop3.host", host);
      properties.put("mail.pop3.port", "995");
      properties.put("mail.pop3.starttls.enable", "true");
      Session emailSession = Session.getDefaultInstance(properties);

      //create the POP3 store object and connect with the pop server
      Store store = emailSession.getStore("pop3s");

      store.connect(host, user, password);

      //create the folder object and open it
```

```
      Folder emailFolder = store.getFolder("INBOX");
      emailFolder.open(Folder.READ_ONLY);

      // retrieve the messages from the folder in an array and print it
      Message[] messages = emailFolder.getMessages();
      System.out.println("messages.length---" + messages.length);

      for (int i = 0, n = messages.length; i < n; i++) {
         Message message = messages[i];
         System.out.println("---------------------------------");
         System.out.println("Email Number " + (i + 1));
         System.out.println("Subject: " + message.getSubject());
         System.out.println("From: " + message.getFrom()[0]);
         System.out.println("Text: " + message.getContent().toString());

      }

      //close the store and folder objects
      emailFolder.close(false);
      store.close();

      } catch (NoSuchProviderException e) {
         e.printStackTrace();
      } catch (MessagingException e) {
         e.printStackTrace();
      } catch (Exception e) {
         e.printStackTrace();
      }
   }

   public static void main(String[] args) {

      String host = "pop.gmail.com";// change accordingly
      String mailStoreType = "pop3";
      String username = "yourmail@gmail.com";// change accordingly
      String password = "******";// change accordingly

      check(host, mailStoreType, username, password);

   }

}
```

Compile and Run

Now that our class is ready, let us compile the above class. I've saved the class CheckingMails.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 *boththejarsareplacedin/home/manisha/directory* from command prompt:

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

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

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

Verify Output

You should see the following message on the command console:

```
messages.length---4
---------------------------------
Email Number 1
Subject: Test Mail--Fetch
From: <abcd@gmail.com>
Text: javax.mail.internet.MimeMultipart@327a5b7f
---------------------------------
```

```
Email Number 2
Subject: testing ----checking simple email
From: <abcd@gmail.com>
Text: javax.mail.internet.MimeMultipart@7f0d08bc
---------------------------------
Email Number 3
Subject: Email with attachment
From: <abcd@gmail.com>
Text: javax.mail.internet.MimeMultipart@30b8afce
---------------------------------
Email Number 4
Subject: Email with Inline image
From: <abcd@gmail.com>
Text: javax.mail.internet.MimeMultipart@2d1e165f
```

Here we have printed the number of messages in the INBOX which is 4 in this case. We have also printed Subject, From address and Text for each email message.