JAVAMAIL API - QUOTA MANAGEMENT

A quota in JavaMail is a limited or fixed number or amount of messages in a email store. Each Mail service request counts toward the JavaMail API Calls quota. An email service can apply following quota criterion:

- Maximum size of outgoing mail messages, including attachments.
- Maximum size of incoming mail messages, including attachments.
- Maximum size of message when an administrator is a recipient

For Quota management JavaMail has following classes:

Class	Description
public class Quota	This class represents a set of quotas for a given quota root. Each quota root has a set of resources, represented by the Quota.Resource class. Each resource has a name *forexample, " STORAGE "* , a current usage, and a usage limit. This has only one method *setResourceLimit Stringname, longlimit*.
public static class Quota.Resource	Represents an individual resource in a quota root.
public interface QuotaAwareStore	An interface implemented by Stores that support quotas. The *getQuota* and *setQuota* methods support the quota model defined by the IMAP QUOTA extension. *GmailSSLStore, GmailStore, IMAPSSLStore, IMAPStore* are the known implementing classes of this interface.

Let us see and example in the following sections which checks for mail storage name, limit and its usage.

Create Java Class

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

```
package com.tutorialspoint;

import java.util.Properties;

import javax.mail.Quota;
import javax.mail.Session;
import javax.mail.Store;

import com.sun.mail.imap.IMAPStore;

public class QuotaExample
{
   public static void main(String[] args)
   {
      try
      {
         Properties properties = new Properties();
         properties.put("mail.store.protocol", "imaps");
         properties.put("mail.imaps.port", "993");
         properties.put("mail.imaps.starttls.enable", "true");
         Session emailSession = Session.getDefaultInstance(properties);
         // emailSession.setDebug(true);
```

```
            // create the IMAP3 store object and connect with the pop server
            Store store = emailSession.getStore("imaps");

            //change the user and password accordingly
            store.connect("imap.gmail.com", "abc@gmail.com", "******");
            IMAPStore imapStore = (IMAPStore) store;
            System.out.println("imapStore ---" + imapStore);

            //get quota
            Quota[] quotas = imapStore.getQuota("INBOX");
            //Iterate through the Quotas
            for (Quota quota : quotas) {
               System.out.println(String.format("quotaRoot:'%s'",
                  quota.quotaRoot));
               //Iterate through the Quota Resource
               for (Quota.Resource resource : quota.resources) {
                  System.out.println(String.format(
                     "name:'%s', limit:'%s', usage:'%s'", resource.name,
                     resource.limit, resource.usage));
               }
            }
         } catch (Exception e)
         {
            e.printStackTrace();
         }
      }
   }
```

Here are connection to the gmail service via IMAP *imap. gmail. com* server, as IMAPStore implements the QuotaAwareStore. Once you get the Store object, fetch the Quota array and iterate through it and print the relevant information.

Compile and Run

Now that our class is ready, let us compile the above class. I've saved the class QuotaExample.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: QuotaExample.java
```

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

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

Verify Output

You should see a similar message on the command console:

```
imapStore ---imaps://abc%40gmail.com@imap.gmail.com
quotaRoot:''
name:'STORAGE', limit:'15728640', usage:'513'
```