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Making a Java code to send emails.

Step 1: Make a class Mail MetaData.

class Mail MetaData will store information regarding meta Data. It includes:

1. Host server of gmail (SMTP)
2. port (465 for Gmail)
3. SSL
4. Authorization permission
5. my email address
6. My password
7. receiver's mail

After setting up a mail Meta Data

Step 2:

Create a class Mail Handler

In class Mail Handler a sendMail() method is created.

In sendmail() method following steps are to be repeated:

step 2.1

sysProperties object is created of class Properties which is of Hashmap type.

Step 2-2 We have to set key and values in the sysProperties object that are as follows :

1. mail.smtp.host
2. mail.smtp.port
3. SSL property to true
4. Authorization permission to true

Step 3 Then, we have to create a session.

Under that

1. Create a mailAuthenticator object of class Authenticator, Authenticator class is Abstract, so we have to extend a new class customized Mail Authentication to use the properties of Authenticator class.

2. We will override a method named getPasswordAuthentication() of Authenticator class under our newly created class customized Mail Authentication

3. We are calling the constructor of Password Authentication class and setting up username and password with the help of it.

4. We need to set the session now.

We cannot call the constructor of Session class because it is private, so we need to call getInstance method of Session class which calls the

~~NOTE: SMTP~~ only sends mail in English Text format. It cannot be used for other languages like Russian, Chinese, French etc. Also audio, videos, images cannot be send over SMTP. So, MIME was introduced.

constructor of session class.

GetInstance method asks two arguments of type Properties and Authenticator.

So, that's why we had had the need to create the objects of Properties and Authenticator class.

Now, our session is set up.

Step 2.4 Now we need to build MIME message using ~~or~~ MimeMessage class.

→ MIME is Multipurpose Internet Mail Extension that can be used to send Videos, Audios and Images files which has is a great advantage over SMTP.

→ We will create an object of ~~or~~ (mail)message MimeMessage class and pass object MailSession of class Session in it.

Step 2.5 Using the object of MimeMessage class we will set 'From', 'Subject' and 'Text message' using setFrom(), getSubject() and setText() methods.

Step 2.6

Now, the time is to set the receiver

- We use Address class to set receiver's email address.
- Since, Address class is a Abstract class, we will call the constructor InternetAddress of InternetAddress class which accepts receiver's email address.

Step 2.7

- MailMessage object of MimeMessage class has a method named setRecipient() which accepts message recipient Type i.e TO, CC, BCC etc. and a receiver email. We pass these arguments in setRecipient() method of Method class.

Step 2.8

Now we send the message using Transport class and send() method.

NOTE : We keep step 2.4 to step 2.7 in a try catch method because this can throw the Exception.