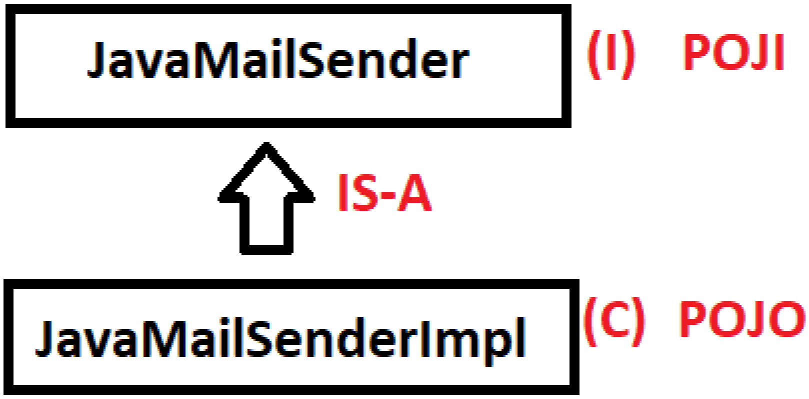
SPRING BOOT MAIL API

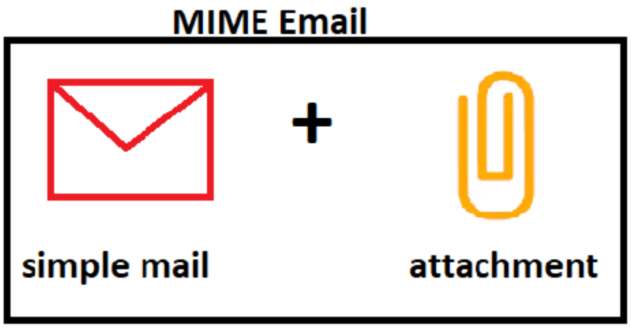
Spring Email API has been created by Spring Framework using java-mail API and POJI-POJO Design Pattern.

Spring Email API is a simplified email service which can be implemented and integrated with any spring application easily.

By using Java mail API (given by Sun Microsystem) coding and setup is lengthy, it is simplified with POJI-POJO given below:

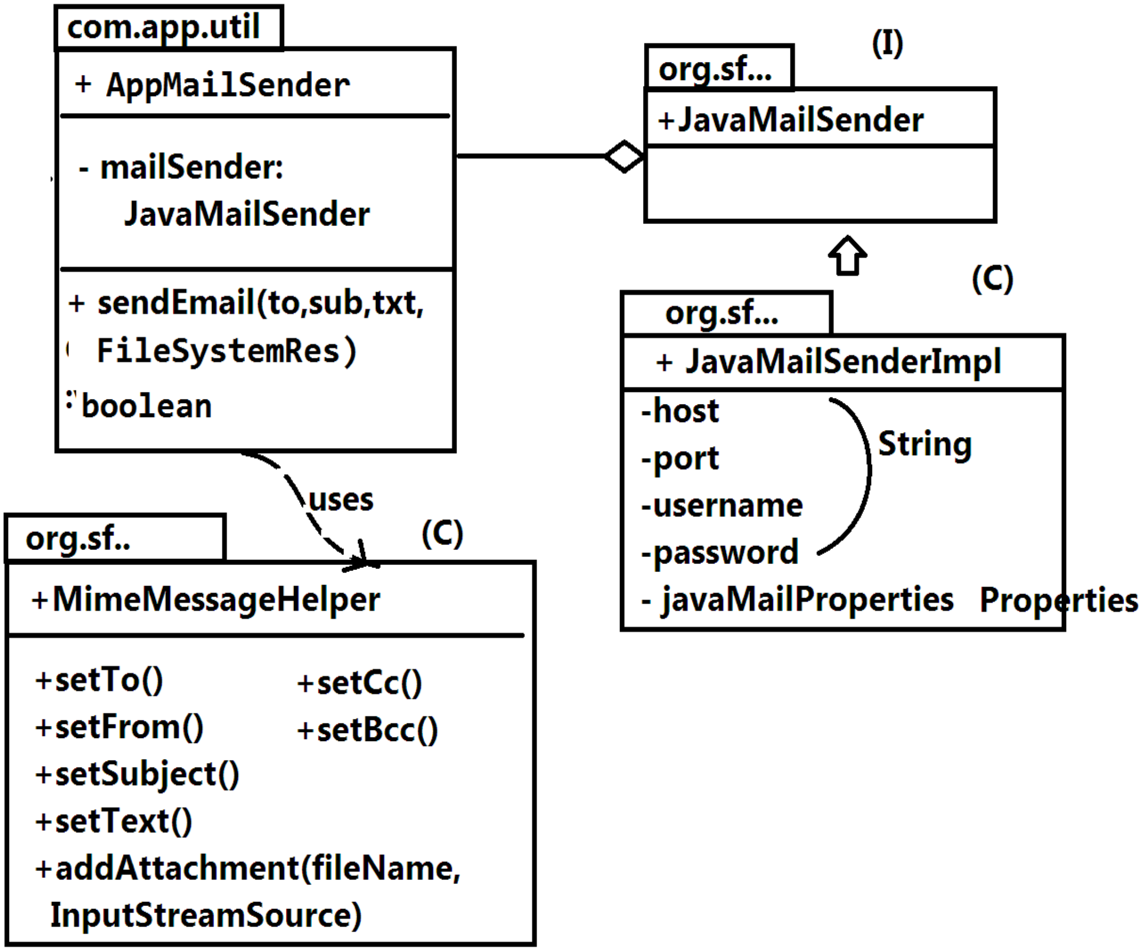


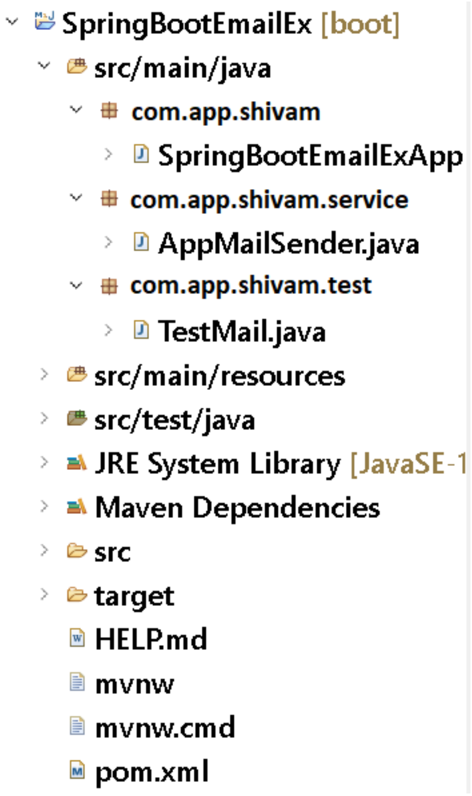
Spring Email API supports MIME Type Email Sending (Multipurpose Internet Mail Extension). It means “Any kind of file as attachment”,
EX: Video, Audio, Text, Document, Images etc…
I.e shown as :



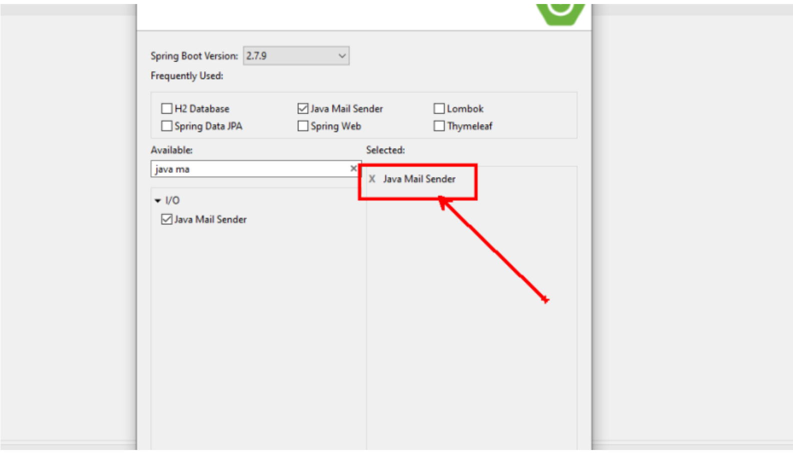
Spring Email API also provided one Helper class **“MIMEMessageHelper”** to create message (writing code) in less lines of code.

To provide attachment details use MultiPartFile Concept SystemResource. **(EX: FileSystemResource or use Resource generic interface).**





```
SpringBootEmailEx [boot]
  src/main/java
    com.app.shivam
      SpringBootEmailExApp
    com.app.shivam.service
      AppMailSender.java
    com.app.shivam.test
      TestMail.java
  src/main/resources
  src/test/java
  JRE System Library [JavaSE-1
  Maven Dependencies
  src
  target
  HELP.md
  mvnw
  mvnw.cmd
  pom.xml
```



Spring Boot Version: 2.7.9

Frequently Used:

☐ H2 Database ☑ Java Mail Sender ☐ Lombok
☐ Spring Data JPA ☐ Spring Web ☐ Thymeleaf

Available: java ma

▾ I/O
☑ Java Mail Sender

Selected:

X Java Mail Sender

pom.xml:

```
<dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-mail</artifactId>
</dependency>
```

application.properties

```
spring.mail.host=smtp.gmail.com
spring.mail.port=587
spring.mail.username=********@gmail.com
spring.mail.password=************
spring.mail.properties.mail.smtp.auth=true
spring.mail.properties.mail.smtp.starttls.enable=true
```

***) We cannot use Gmail Account password for sending emails. We must generate App Password for that Enable 2-Step Verification in your Gmail account and generate app password using below link.**
https://myaccount.google.com/apppasswords

Live class code:

```java
package com.app.shivam.service;

import javax.mail.internet.MimeMessage;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.core.io.Resource;
import org.springframework.mail.javamail.JavaMailSender;
import org.springframework.mail.javamail.MimeMessageHelper;
import org.springframework.stereotype.Component;

@Component
public class AppMailSender {

	@Autowired
	private JavaMailSender sender;

	@Value("${spring.mail.username}")
	private String from;

	public boolean sendEmail(
			String to,
			String cc[],
			String bcc[],
			String subject,
			String text,
			Resource files[])
	{
        boolean sent = false;

        //1. Create Empty Email object
        MimeMessage message = sender.createMimeMessage();

        try {
            //2. Fill details
            //here 2nd params indicates attachment exist or not?
            MimeMessageHelper helper = new MimeMessageHelper(message,
files!=null && files.length>0);

            helper.setTo(to);
            if(cc!=null)
                helper.setCc(cc);
            if(bcc!=null)
                helper.setBcc(bcc);

            helper.setFrom(from);

            helper.setSubject(subject);
            //helper.setText(text);
            helper.setText(text,true);

            //filename, file data
            if(files!=null && files.length>0) {
                for(Resource file : files)
                    helper.addAttachment(file.getFilename(), file);
            }

            //3. Click on send Button
            sender.send(message);
            sent = true;
        } catch (Exception e) {
            e.printStackTrace();
        }

        return sent;
    }
}
```

Test class:

```
package com.app.shivam.runner;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.core.io.FileSystemResource;
import org.springframework.core.io.Resource;
import org.springframework.core.io.UrlResource;
import org.springframework.stereotype.Component;
```

```java
import com.app.shivam.service.AppMailSender;

@Component
public class TestEmailRunner implements CommandLineRunner {

    @Autowired
    private AppMailSender sender;

    public void run(String... args) throws Exception {
        UrlResource file2 = new
UrlResource("https://stimg.cardekho.com/images/carexteriorimages/930x620/Jagu
ar/F-TYPE/7810/1675671305429/front-left-side-47.jpg");

        boolean sent = sender.sendEmail(
        "arvind.991954@gmail.com", //to
        new String[] { //cc
            "shivam.972176@gmail.com",
            "abhisekmishra1709@gmail.com"
        },
        new String[] {//bcc
            "abhisekmishra1709@gmail.com"
        },
            "God Of Cricket", //subject
        //text
            "<html> <body> <h1>Jaguar Car!!</h1> <p>Jaguar is
        Champ.. :)</p> </body></html>",
        new Resource[] { //files
            file2
        });

        if(sent)
        System.out.println("EMAIL IS SENT");
        else
        System.out.println("SENDING FAILED");
    }

}
```