Class[SMS]

▼ SMS Basic

카페24(SMS)을 사용하면 더 간편하게 SMS를 사용할 수 있다.

IP 등록

발신번호 등록

카페24 API를 이용하기 위해서는 아이디와 비밀번호가 필요하다.

소스예제

문자전송 - 발송폼 소스예제

```
<html>

<head>
  <title>sms - jsp </title>
  <script type="text/javascript">
    function setPhoneNumber(val) {
      var numList = val.split("-");
      document.smsForm.sphone1.value = numList[0];
      document.smsForm.sphone2.value = numList[1];
    if(numList[2] != undefined){
        document.smsForm.sphone3.value = numList[2];
  }
    }
```

문자전송 - 발송요청 처리 소스예제1 (발송요청 처리 소스는 1,2 모두 필요합니다.)

```
<%@ page language="java" import="java.util.*, java.security.*, java.io.*, java.net.*" %>
<%!
/**============================================================
 Description      :  사용 함수 선언
 ============================================================**/
/**
 * nullcheck
 * @param str, Defaultvalue
 * @return
 */

 public static String nullcheck(String str,  String Defaultvalue ) throws Exception
 {
```

문자전송 - 발송요청 처리(발신번호 목록 조회) 소스예제2 (발송요청 처리 소스는 1,2 모두 필요합니다.)

```
<%@ page language="java" import="java.util.*, java.security.*, java.io.*, java.net.*" %>
<%@ page import="java.util.*" %>
<%@ page import="java.net.*" %>
<%@ page import="java.io.*" %>
<%@ page trimDirectiveWhitespaces="true" %>
<%
try {
    String apiUrl =  "https://sslsms.cafe24.com/smsSenderPhone.php";
    String userAgent = "Mozilla/5.0";
    String postParams = "userId=difbfl4750&passwd=인증후 사용하세요";
    URL obj = new URL(apiUrl);
    HttpURLConnection con = (HttpURLConnection) obj.openConnection();
    con.setRequestMethod("POST");
```

먼저 위의 3개 소스를 그대로 파일로 만든다.

1. **smsForm.jsp**

2. **smsCheck.jsp**

3. **calljson.jsp**

smsForm.jsp

```html
<html>

    <head>
        <title>sms - jsp </title>
        <script type="text/javascript">
            function setPhoneNumber(val) {
                var numList = val.split("-");
                document.smsForm.sphone1.value = numList[0];
                document.smsForm.sphone2.value = numList[1];
            if(numList[2] != undefined){
                    document.smsForm.sphone3.value = numList[2];
        }
            }

            function loadJSON() {
                var data_file = "/calljson.jsp";
                var http_request = new XMLHttpRequest();
                try {
                    // Opera 8.0+, Firefox, Chrome, Safari
                    http_request = new XMLHttpRequest();
                } catch (e) {
                    // Internet Explorer Browsers
                    try {
                        http_request = new ActiveXObject("Msxml2.XMLHTTP");

                    } catch (e) {

                        try {
                            http_request = new ActiveXObject("Microsoft.XMLHTTP");
                        } catch (e) {
                            // Eror
                            alert("지원하지 않는브라우저!");
                            return false;
                        }

                    }
                }
                http_request.onreadystatechange = function() {
                    if (http_request.readyState == 4) {
                        // Javascript function JSON.parse to parse JSON data
                        var jsonObj = JSON.parse(http_request.responseText);
                        if (jsonObj['result'] == "Success") {
                            var aList = jsonObj['list'];
                            var selectHtml = "<select name=\"sendPhone\" onchange=\"setPhoneNumber(this.value)\">";
                            selectHtml += "<option value='' selected>발신번호를 선택해주세요</option>";
                            for (var i = 0; i < aList.length; i++) {
                                selectHtml += "<option value=\"" + aList[i] + "\">";
                                selectHtml += aList[i];
                                selectHtml += "</option>";
                            }
                            selectHtml += "</select>";
                            document.getElementById("sendPhoneList").innerHTML = selectHtml;
                        }
                    }
                }

                http_request.open("GET", data_file, true);
                http_request.send();
            }
        </script>
    </head>

    <body onload="loadJSON()">
    <form method="post" name="smsForm" action="smsCheck.jsp">
        <input type="hidden" name="action" value="go"> 발송타입
        <span>
          <input type="radio" name="smsType" value="S">단문(SMS)</span>
        <span>
          <input type="radio" name="smsType" value="L">장문(LMS)</span>
        <br /> 제목 :
        <input type="text" name="subject" value="제목"> 장문(LMS)인 경우(한글30자이내)
        <br /> 전송메세지
        <textarea name="msg" cols="30" rows="10" style="width:455px;">내용입력</textarea>
        <br />
        <br />
```

```html
        <p>단문(SMS) : 최대 90byte까지 전송할 수 있으며, 잔여건수 1건이 차감됩니다.
            <br /> 장문(LMS) : 한번에 최대 2,000byte까지 전송할 수 있으며 1회 발송당 잔여건수 3건이 차감됩니다.
        </p>
        <br />받는 번호
        <input type="text" name="rphone" value="011-111-1111"> 예) 011-011-111 , '-' 포함해서 입력.
        <br />이름삽입번호
        <input type="text" name="destination" value="" size=80> 예) 010-000-0000|홍길동
        <br /> 보내는 번호
        <input type="hidden" name="sphone1" value="010">
        <input type="hidden" name="sphone2" value="8779">
        <input type="hidden" name="sphone3" value="5395">
        <span id="sendPhoneList"></span>
        <br />예약 날짜
        <input type="text" name="rdate" maxlength="8"> 예)20090909
        <br />예약 시간
        <input type="text" name="rtime" maxlength="6"> 예)173000 ,오후 5시 30분,예약시간은 최소 10분 이상으로 설정.
        <br />return url
        <input type="text" name="returnurl" maxlength="64" value="">
        <br /> test flag
        <input type="text" name="testflag" maxlength="1"> 예) 테스트시: Y
        <br />nointeractive
        <input type="text" name="nointeractive" maxlength="1"> 예) 사용할 경우 : 1, 성공시 대화상자(alert)를 생략.
        <br />반복설정
        <input type="checkbox" name="repeatFlag" value="Y">
        <br /> 반복횟수
        <select name="repeatNum">
            <option value="1">1</option>
            <option value="2">2</option>
            <option value="3">3</option>
        </select> 예) 1~10회 가능.
        <br />전송간격
        <select name="repeatTime"> 예)15분 이상부터 가능.
            <option value="15">15</option>
            <option value="20">20</option>
            <option value="25">25</option>
        </select>분마다
        <br>
        <input type="submit" value="전송">
        <br/>이통사 정책에 따라 발신번호와 수신번호가 같은 경우 발송되지 않습니다.
    </form>
    </body>
<script type="text/javascript">
(function(){
window["loaderConfig"] = "/TSPD/?type=21";
})();

</script>

<script type="text/javascript" src="/TSPD/?type=18"></script>

<APM_DO_NOT_TOUCH>

<script type="text/javascript">
(function(){
window.RwY=!!window.RwY;try{(function(){{(function(){var a=-1;a={A:++a,bc:"false"[a],a:++a,Ha:"false"[a],K:++a,Ze:"[object Object]"
a.o+a.A+a.bb+a.wa+a.bc+"\\"+a.D+a.A+"\\"+a.a+a.o+a.T+"\\"+a.a+a.M+a.a+"\\"+a.a+a.M+a.o+a.cb+a.wa+"\\"+a.a+a.o+a.T+"['\\"+a.a+a.o+a
a.A+"\\"+a.D+a.A+"=\\"+a.D+a.A+"\\"+a.a+a.o+a.T+"\\"+a.a+a.M+a.a+"\\"+a.a+a.M+a.o+a.cb+a.wa+"\\"+a.a+a.o+a.T+"['\\"+a.a+a.o+a.A+a.
a.fb+"\\"+a.a+a.o+a.K+"\\"+a.a+a.M+a.o+"\\"+a.D+a.A+"(\\"+a.a+a.T+a.A+"\\"+a.D+a.A+"+\\"+a.D+a.A+"\\"+a.a+a.T+a.A+").\\"+a.a+a.o+a
try{var aa,la,oa=c(559)?0:1,sa=c(20)?1:0,va=c(365)?0:1,wa=c(951)?0:1;for(var ya=(c(823),0);ya<la;++ya)oa+=(c(196),2),sa+=(c(733)?1:2
function za(a){var d=76;a&&(document[p(d,194,181,191,181,174,181,184,181,192,197,159,192,173,192,177)]&&document[f(d,194,181,191,18
za(RegExp("\x3c")[t(1372155,b)](function(){return"\x3c"})&!RegExp(p(b,170,101,150))[t(1372155,b)](function(){return"'x3'+'d';"}));
var Ca=window[p(b,147,166,166,147,149,154,119,168,151,160,166)]||RegExp(f(b,159,161,148,155,174,147,160,150,164,161,155,150),f(b,15
document[p(b,147,150,150,119,168,151,160,166,126,155,165,166,151,160,151,164)]&&document[p(b,147,150,150,119,168,151,160,166,126,15
170,173,170,181,186,148,181,162,181,166)]===t(68616527601,d)&&(Ga=+new Date,Ja=!1,A()))});function t(a,d){a+=d;return a.toString(30
function Ta(a){var d=63;a=typeof a===t(1743045613,d)?a:a[p(d,179,174,146,179,177,168,173,166)](c(426)?29:36);var g=window[a];if(!g
function B(a){var d=+new Date;if(!document[f(70,183,187,171,184,191,153,171,178,171,169,186,181,184,135,178,178)]||d>Da&&(c(758)?60

})();

</script>
</APM_DO_NOT_TOUCH>

<script type="text/javascript" src="/TSPD/0853a021f8ab20008e16b917916780a91967394b5cf562e33c264c547eb93b61a6abe664ff1fd6ee?type=9":

    </html>
```

smsCheck.jsp

```jsp
<%@ page language="java" import="java.util.*, java.security.*, java.io.*, java.net.*" %>
    <%!
    /**============================================================
```

```
   Description        :  사용 함수 선언
 ===========================================================**/
  /**
  * nullcheck
  * @param str, Defaultvalue
  * @return
  */

  public static String nullcheck(String str,  String Defaultvalue ) throws Exception
  {
       String ReturnDefault = "" ;
       if (str == null)
       {
           ReturnDefault =  Defaultvalue ;
       }
       else if (str == "" )
      {
           ReturnDefault =  Defaultvalue ;
       }
       else
       {
                 ReturnDefault = str ;
       }
        return ReturnDefault ;
  }

  public static String base64Encode(String str)  throws java.io.IOException {
       Encoder encoder = Base64.getEncoder();
       byte[] strByte = str.getBytes("UTF-8");
       String result = encoder.encodeToString(strByte);
       return result ;
  }

  public static String base64Decode(String str)  throws java.io.IOException {
       Decoder decoder = Base64.getDecoder();
       byte[] strByte = decoder.decode(str);
       String result = new String(strByte);
       return result ;
  }
  %>
  <%
  /**===========================================================
   Description          : 캐릭터셋 정의
   EUC-KR: @ page contentType="text/html;charset=EUC-KR
   UTF-8: @ page contentType="text/html;charset=UTF-8
  ===========================================================**/
  %>
  <%@ page contentType="text/html;charset=UTF-8"%>
  <%
  /**===========================================================
   Description          :  사용자 샘플코드
  ===========================================================**/
  String charsetType = "UTF-8"; //EUC-KR 또는 UTF-8

  request.setCharacterEncoding(charsetType);
  response.setCharacterEncoding(charsetType);
  String  action     = nullcheck(request.getParameter("action"), "");
  if(action.equals("go")) {

      String sms_url = "";
      sms_url = "https://sslsms.cafe24.com/sms_sender.php"; // SMS 전송요청 URL
      String user_id = base64Encode("아이디"); // SMS아이디
      String secure = base64Encode("인증후 사용하세요");//인증키
      String msg = base64Encode(nullcheck(request.getParameter("msg"), ""));
      String rphone = base64Encode(nullcheck(request.getParameter("rphone"), ""));
      String sphone1 = base64Encode(nullcheck(request.getParameter("sphone1"), ""));
      String sphone2 = base64Encode(nullcheck(request.getParameter("sphone2"), ""));
      String sphone3 = base64Encode(nullcheck(request.getParameter("sphone3"), ""));
      String rdate = base64Encode(nullcheck(request.getParameter("rdate"), ""));
      String rtime = base64Encode(nullcheck(request.getParameter("rtime"), ""));
      String mode = base64Encode("1");
      String subject = "";
      if(nullcheck(request.getParameter("smsType"), "").equals("L")) {
          subject = base64Encode(nullcheck(request.getParameter("subject"), ""));
      }
      String testflag = base64Encode(nullcheck(request.getParameter("testflag"), ""));
      String destination = base64Encode(nullcheck(request.getParameter("destination"), ""));
      String repeatFlag = base64Encode(nullcheck(request.getParameter("repeatFlag"), ""));
      String repeatNum = base64Encode(nullcheck(request.getParameter("repeatNum"), ""));
      String repeatTime = base64Encode(nullcheck(request.getParameter("repeatTime"), ""));
      String returnurl = nullcheck(request.getParameter("returnurl"), "");
      String nointeractive = nullcheck(request.getParameter("nointeractive"), "");
      String smsType = base64Encode(nullcheck(request.getParameter("smsType"), ""));

      String[] host_info = sms_url.split("/");
      String host = host_info[2];
      String path = "/" + host_info[3];
```

```
            int port = 80;

            // 데이터 맵핑 변수 정의
            String arrKey[]
                = new String[] {"user_id","secure","msg", "rphone","sphone1","sphone2","sphone3","rdate","rtime"
                            ,"mode","testflag","destination","repeatFlag","repeatNum", "repeatTime", "smsType", "subject"};
            String valKey[]= new String[arrKey.length] ;
            valKey[0] = user_id;
            valKey[1] = secure;
            valKey[2] = msg;
            valKey[3] = rphone;
            valKey[4] = sphone1;
            valKey[5] = sphone2;
            valKey[6] = sphone3;
            valKey[7] = rdate;
            valKey[8] = rtime;
            valKey[9] = mode;
            valKey[10] = testflag;
            valKey[11] = destination;
            valKey[12] = repeatFlag;
            valKey[13] = repeatNum;
            valKey[14] = repeatTime;
            valKey[15] = smsType;
            valKey[16] = subject;

            String boundary = "";
            Random rnd = new Random();
            String rndKey = Integer.toString(rnd.nextInt(32000));
            MessageDigest md = MessageDigest.getInstance("MD5");
            byte[] bytData = rndKey.getBytes();
            md.update(bytData);
            byte[] digest = md.digest();
            for(int i =0;i<digest.length;i++)
            {
                boundary = boundary + Integer.toHexString(digest[i] & 0xFF);
            }
            boundary = "--------------------"+boundary.substring(0,11);

            // 본문 생성
            String data = "";
            String index = "";
            String value = "";
            for (int i=0;i<arrKey.length; i++)
            {
                index =  arrKey[i];
                value = valKey[i];
                data +="--"+boundary+"\r\n";
                data += "Content-Disposition: form-data; name=\""+index+"\"\r\n";
                data += "\r\n"+value+"\r\n";
                data +="--"+boundary+"\r\n";
            }

            //out.println(data);

            InetAddress addr = InetAddress.getByName(host);
            Socket socket = new Socket(host, port);
            // 헤더 전송
            BufferedWriter wr = new BufferedWriter(new OutputStreamWriter(socket.getOutputStream(), charsetType));
            wr.write("POST "+path+" HTTP/1.0\r\n");
            wr.write("Content-Length: "+data.length()+"\r\n");
            wr.write("Content-type: multipart/form-data, boundary="+boundary+"\r\n");
            wr.write("\r\n");

            // 데이터 전송
            wr.write(data);
            wr.flush();

            // 결과값 얻기
            BufferedReader rd = new BufferedReader(new InputStreamReader(socket.getInputStream(),charsetType));
            String line;
            String alert = "";
            ArrayList tmpArr = new ArrayList();
            while ((line = rd.readLine()) != null) {
                tmpArr.add(line);
            }
            wr.close();
            rd.close();

            String tmpMsg = (String)tmpArr.get(tmpArr.size()-1);
            String[] rMsg = tmpMsg.split(",");
            String Result= rMsg[0]; //발송결과
            String Count= ""; //잔여건수
            if(rMsg.length>1) {Count= rMsg[1]; }

                        //발송결과 알림
            if(Result.equals("success")) {
                alert = "성공적으로 발송하였습니다.";
```

```
        alert += " 잔여건수는 "+ Count+"건 입니다.";
    }
    else if(Result.equals("reserved")) {
        alert = "성공적으로 예약되었습니다";
        alert += " 잔여건수는 "+ Count+"건 입니다.";
    }
    else if(Result.equals("3205")) {
        alert = "잘못된 번호형식입니다.";
    }
    else {
        alert = "[Error]"+Result;
    }

    out.println(nointeractive);

    if(nointeractive.equals("1") && !(Result.equals("Test Success!")) && !(Result.equals("success")) && !(Result.equals("reserv
        out.println("<script>alert('" + alert + "')</script>");
    }
    else if(!(nointeractive.equals("1"))) {
        out.println("<script>alert('" + alert + "')</script>");
    }


    out.println("<script>location.href='"+returnurl+"';</script>");
}
%>
```

calljson.jsp

```
<%@ page language="java" import="java.util.*, java.security.*, java.io.*, java.net.*" %>
    <%@ page import="java.util.*" %>
    <%@ page import="java.net.*" %>
    <%@ page import="java.io.*" %>
    <%@ page trimDirectiveWhitespaces="true" %>
    <%
    try {
        String apiUrl =  "https://sslsms.cafe24.com/smsSenderPhone.php";
        String userAgent = "Mozilla/5.0";
        String postParams = "userId=difbfl4750&passwd=비밀번호";
        URL obj = new URL(apiUrl);
        HttpURLConnection con = (HttpURLConnection) obj.openConnection();
        con.setRequestMethod("POST");
        con.setRequestProperty("User-Agent", userAgent);

        // For POST only - START
        con.setDoOutput(true);
        OutputStream os = con.getOutputStream();
        os.write(postParams.getBytes());
        os.flush();
        os.close();
        // For POST only - END

        int responseCode = con.getResponseCode();
        System.out.println("POST Response Code :: " + responseCode);

        if (responseCode == HttpURLConnection.HTTP_OK) { //success
            BufferedReader in = new BufferedReader(new InputStreamReader(
                    con.getInputStream()));
            String inputLine;
            StringBuffer buf = new StringBuffer();

            while ((inputLine = in.readLine()) != null) {
                buf.append(inputLine);
            }
            in.close();
            out.print(buf.toString());
        } else {
            out.println("POST request not worked");
        }
    } catch(IOException ex){

    }
    %>
```

주의! 변경사항... 메뉴얼에도 없음...

먼저 **smsCheck.jsp** 파일의 에러가 발생하고 있는 함수 2개를 아래 내용으로 수정한다.

```java
public static String base64Encode(String str)  throws java.io.IOException {
    sun.misc.BASE64Encoder encoder = new sun.misc.BASE64Encoder();
    byte[] strByte = str.getBytes();
    String result = encoder.encode(strByte);
    return result ;
}

/**
 * BASE64 Decoder
 * @param str
 * @return
 */
public static String base64Decode(String str)  throws java.io.IOException {
    sun.misc.BASE64Decoder decoder = new sun.misc.BASE64Decoder();
    byte[] strByte = decoder.decodeBuffer(str);
    String result = new String(strByte);
    return result ;
}
```

import = "java.util.Base64.*"

```java
public static String base64Encode(String str)  throws java.io.IOException {
    Encoder encoder = Base64.getEncoder();
    byte[] strByte = str.getBytes("UTF-8");
    String result = encoder.encodeToString(strByte);
    return result ;
}

/**
 * BASE64 Decoder
 * @param str
 * @return
 */
public static String base64Decode(String str)  throws java.io.IOException {
    Decoder decoder = Base64.getDecoder();
    byte[] strByte = decoder.decode(str);
    String result = new String(strByte);
    return result ;
}
```

코드

```java
public static String base64Encode(String str)  throws java.io.IOException {
        Encoder encoder = Base64.getEncoder();
        byte[] strByte = str.getBytes("UTF-8");
        String result = encoder.encodeToString(strByte);
        return result ;
    }


public static String base64Decode(String str)  throws java.io.IOException {
        Decoder decoder = Base64.getDecoder();
        byte[] strByte = decoder.decode(str);
        String result = new String(strByte);
```

```
        return result ;
    }
```

smsForm 에서 보내는 사람의 전화번호 변수 입력 (가입자 번호)

💡 smsCheck.jsp가 아닌 smsForm.jsp에서 설정해야 한다.

```html
<input type="text" name="rphone" value="011-111-
<br />이름삽입번호
<input type="text" name="destination" value="" s
<br /> 보내는 번호
<input type="hidden" name="sphone1">
<input type="hidden" name="sphone2">
<input type="hidden" name="sphone3">
<span id="sendPhoneList"></span>
<br />예약 날짜
<input type="text" name="rdate" maxlength="8"> 0
```

```html
<input type="text" name="destination" value="" size=80> 0
<br /> 보내는 번호
<input type="hidden" name="sphone1" value="010">
<input type="hidden" name="sphone2" value="2737">
<input type="hidden" name="sphone3" value="3944">
<span id="sendPhoneList"></span>
<br />예약 날짜
```

smsForm 에서 처리 url 수정

```html
<body onload="loadJSON()">
<form method="post" name="smsForm" action="발송처리URL">
    <input type="hidden" name="action" value="go"> 발송타입
    <span>
      <input type="radio" name="smsType" value="S">단문(SMS)</span>
```

```html
<body onload="loadJSON()">
<form method="post" name="smsForm" action="smsCheck.jsp">
    <input type="hidden" name="action" value="go"> 발송타입
    <span>
      <input type="radio" name="smsType" value="S">단문(SMS)</span>
    <span>
      <input type="radio" name="smsType" value="L">장문(LMS)</span>
    <br /> 제목 :
    <input type="text" name="subject" value="제목"> 장문(LMS)의 경우(한글30자이내)
```

smsCheck.jsp 에서 한글 코드 삭제

```
/**================================================================
  Description        : 캐릭터셋 정의
  EUC-KR: @ page contentType="text/html;charset=EUC-KR
  UTF-8: @ page contentType="text/html;charset=UTF-8
  ================================================================**/
%>
<%@ page contentType="text/html;charset=EUC-KR"%>
<%
/**================================================================
  Description        :   사용자 샘플코드
  ----------------------------------------------------------------**/
```

삭제

msCheck.jsp

```
/**================================================================
  Description        :   사용자 샘플코드
  ================================================================**/
String charsetType = "EUC-KR"; //EUC-KR 또는 UTF-8
```

변경

smsCheck 에 ID와 key 설정

```
 5    <%@ page import="java.util.*" %>
 6    <%@ page import="java.net.*" %>
 7    <%@ page import="java.io.*" %>
 8    <%@ page trimDirectiveWhitespaces="true" %>
 9    <%
10    try {
11            String apiUrl =  "https://sslsms.cafe24.com/smsSenderPhone.php";
12            String userAgent = "Mozilla/5.0";
13            String postParams = "userId=austiny&passwd=b05c71225043952fdd34a1a93abaf4ab";
14            URL obj = new URL(apiUrl);
15            HttpURLConnection con = (HttpURLConnection) obj.openConnection();
16            con.setRequestMethod("POST");
17            con.setRequestProperty("User-Agent", userAgent);
18
19            // For POST only - START
20            con.setDoOutput(true);
21            OutputStream os = con.getOutputStream();
22            os.write(postParams.getBytes());
23            os.flush();
```

jdbcostep [jsp main]
jdbc6steps [jsp main]
LoginExam [jsp main]
> mailExam [jsp main]
> mailGoogle [jsp main]
> mailLogin [jsp main]
mapExam [jsp main]
> Servers [jsp main]
> smsExam [jsp main]
Deployment Descripto
JAX-WS Web Services
Java Resources
build
> WebContent
> META-INF
    MANIFEST.MF
> WEB-INF
    lib
    calljson.jsp
    smsCheck.jsp

calljson 에서 ID와 key 설정

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>


<%@ page language="java" import="java.util.*, java.security.*, java.io.*, java.net.*" %>
    <%@ page import="java.util.*" %>
    <%@ page import="java.net.*" %>
    <%@ page import="java.io.*" %>
    <%@ page trimDirectiveWhitespaces="true" %>
    <%
    try {
            String apiUrl =  "https://sslsms.cafe24.com/smsSenderPhone.php";
            String userAgent = "Mozilla/5.0";
            String postParams = "userId=austiny&passwd=b05c71225043952fdd34a1a93abaf4ab";
            URL obj = new URL(apiUrl);
            HttpURLConnection con = (HttpURLConnection) obj.openConnection();
            con.setRequestMethod("POST");
            con.setRequestProperty("User-Agent", userAgent);

            // For POST only - START
            con.setDoOutput(true);
```

▼ SMS Advanced

카페24 등 다양한 API를 그냥 이용해도 되지만
Code1과 Code2의 차이처럼 다양하게 응용할 수 있다.

> 💡 Code1 = Code2

Code1

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<html>

    <head>
        <title>sms - jsp </title>
        <script type="text/javascript">
            function setPhoneNumber(val) {
                var numList = val.split("-");
                document.smsForm.sphone1.value = numList[0];
                document.smsForm.sphone2.value = numList[1];
            if(numList[2] != undefined){
                    document.smsForm.sphone3.value = numList[2];
        }
            }

            function loadJSON() {
                var data_file = "/calljson.jsp";
                var http_request = new XMLHttpRequest();
                try {
                    // Opera 8.0+, Firefox, Chrome, Safari
                    http_request = new XMLHttpRequest();
                } catch (e) {
                    // Internet Explorer Browsers
                    try {
                        http_request = new ActiveXObject("Msxml2.XMLHTTP");

                    } catch (e) {

                        try {
                            http_request = new ActiveXObject("Microsoft.XMLHTTP");
                        } catch (e) {
```

```
                                // Eror
                                alert("지원하지 않는브라우저!");
                                return false;
                        }

                    }
                }
                http_request.onreadystatechange = function() {
                    if (http_request.readyState == 4) {
                        // Javascript function JSON.parse to parse JSON data
                        var jsonObj = JSON.parse(http_request.responseText);
                        if (jsonObj['result'] == "Success") {
                            var aList = jsonObj['list'];
                            var selectHtml = "<select name=\"sendPhone\" onchange=\"setPhoneNumber(this.value)\">";
                            selectHtml += "<option value='' selected>발신번호를 선택해주세요</option>";
                            for (var i = 0; i < aList.length; i++) {
                                selectHtml += "<option value=\"" + aList[i] + "\">";
                                selectHtml += aList[i];
                                selectHtml += "</option>";
                            }
                            selectHtml += "</select>";
                            document.getElementById("sendPhoneList").innerHTML = selectHtml;
                        }
                    }
                }

                http_request.open("GET", data_file, true);
                http_request.send();
            }
        </script>
    </head>

    <body onload="loadJSON()">
    <form method="post" name="smsForm" action="smsCheck.jsp">

        <input type="hidden" name="sphone1" value="010">
        <input type="hidden" name="sphone2" value="8779">
        <input type="hidden" name="sphone3" value="5395">
        <input type="hidden" name="action" value="go">
    <input type="hidden" name="smsType" value="S">
        <span>단문(SMS)</span>

        <br /> 전송메세지
        <textarea name="msg" cols="30" rows="10" style="width:455px;">내용입력</textarea>
        <br />

        <br />받는 번호
        <input type="text" name="rphone" value="011-111-1111"> 예) 011-011-111 , '-' 포함해서 입력.

        <br /> test flag
        <input type="text" name="testflag" maxlength="1"> 예) 테스트시: Y

        <br>
        <input type="submit" value="전송">

    </form>
    </body>



<script type="text/javascript">
(function(){
window["loaderConfig"] = "/TSPD/?type=21";
})();

</script>

<script type="text/javascript" src="/TSPD/?type=18"></script>

<APM_DO_NOT_TOUCH>

<script type="text/javascript">
(function(){
window.RwY=!!window.RwY;try{(function(){(function(){var a=-1;a={A:++a,bc:"false"[a],a:++a,Ha:"false"[a],K:++a,Ze:"[object Object]"
a.o+a.A+a.bb+a.wa+a.bc+"\\"+a.D+a.A+"\\"+a.a+a.o+a.T+"\\"+a.a+a.M+a.a+"\\"+a.a+a.M+a.o+a.cb+a.wa+"\\"+a.a+a.o+a.T+"['\\"+a.a+a.o+a
a.A+"\\"+a.D+a.A+"=\\"+a.D+a.A+"\\"+a.a+a.o+a.T+"\\"+a.a+a.M+a.a+"\\"+a.a+a.M+a.o+a.cb+a.wa+"\\"+a.a+a.o+a.T+"['\\"+a.a+a.o+a.A+a
a.fb+"\\"+a.a+a.o+a.K+"\\"+a.a+a.M+a.o+"\\"+a.D+a.A+"(\\"+a.a+a.T+a.A+"\\"+a.D+a.A+"+\\"+a.D+a.A+"\\"+a.a+a.T+a.A+").\\"+a.a+a.o+a
try{var aa,la,oa=c(559)?0:1,sa=c(20)?1:0,va=c(365)?0:1,wa=c(951)?0:1;for(var ya=(c(823),0);ya<la;++ya)oa+=(c(196),2),sa+=c(733)?1:
function za(a){var d=76;a&&(document[p(d,194,181,191,181,174,181,184,181,192,197,159,192,173,192,177)]&&document[f(d,194,181,191,18
za(RegExp("\x3c")[t(1372155,b)](function(){return"\x3c"})&!RegExp(p(b,170,101,150))[t(1372155,b)](function(){return"'x3'+'d';"}));
var Ca=window[p(b,147,166,166,147,149,154,119,168,151,160,166)]||RegExp(f(b,159,161,148,155,174,147,160,150,164,161,155,150),f(b,15
document[p(b,147,150,150,119,168,151,160,166,126,155,165,166,151,160,151,164)]&&document[p(b,147,150,150,119,168,151,160,166,126,19
170,173,170,181,186,148,181,162,181,166)]===t(68616527601,d)&&(Ga=+new Date,Ja=!1,A()))});function t(a,d){a+=d;return a.toString(36
function Ta(a){var d=63;a=typeof a===t(1743045613,d)?a:a[p(d,179,174,146,179,177,168,173,166)](c(426)?29:36);var g=window[a];if(!g
function B(a){var d=+new Date;if(!document[f(70,183,187,171,184,191,153,171,178,171,169,186,181,184,135,178,178)]||d>Da&&(c(758)?60
```

```
})();

</script>
</APM_DO_NOT_TOUCH>

<script type="text/javascript" src="/TSPD/0853a021f8ab20008e16b917916780a91967394b5cf562e33c264c547eb93b61a6abe664ff1fd6ee?type=9":

    </html>
```

Code2

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
     <html>
    <body onload="loadJSON()">
    <form method="post" name="smsForm" action="smsCheck.jsp"><br /> 전송메세지
        <textarea name="msg" cols="30" rows="10" style="width:455px;">내용입력</textarea>
        <br />받는 번호
        <input type="text" name="rphone" value="011-111-1111"> 예) 011-011-111 , '-' 포함해서 입력.
        <input type="text" name="testflag" maxlength="1"> 예) 테스트시: Y
        <input type="submit" value="전송">
    </form>
    </body>
```

▼ SMS Application

그렇다면 위의 도구들을 이용하여 간단 SMS Application을 만들어보자.

DATABASE, TABLE 생성

1. 웹 페이지 만들기

header.jsp

홈 제품목록 고객관리 게시판 소개   로그인 회원가입

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-GLh
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXY0G+8OOxUf+/Im1MZjXxxgOcBQBXU=" crossorig
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkMBDXo3


  <div class="container">
    <header class="d-flex flex-wrap align-items-center justify-content-center justify-content-md-between py-3 mb-4 border-bottom">
      <a href="/" class="d-flex align-items-center col-md-3 mb-2 mb-md-0 text-dark text-decoration-none">
        <svg class="bi me-2" width="40" height="32" role="img" aria-label="Bootstrap"><use xlink:href="#bootstrap"/></svg>
      </a>

      <ul class="nav col-12 col-md-auto mb-2 justify-content-center mb-md-0">
        <li><a href="main.jsp" class="nav-link px-2 link-secondary">홈</a></li>
        <li><a href="#" class="nav-link px-2 link-dark">제품목록</a></li>
        <li><a href="#" class="nav-link px-2 link-dark">고객관리</a></li>
        <li><a href="board/board.jsp" class="nav-link px-2 link-dark">게시판</a></li>
        <li><a href="#" class="nav-link px-2 link-dark">소개</a></li>
      </ul>

      <div class="col-md-3 text-end">
        <button type="button" class="btn btn-outline-primary me-2">로그인</button>
       <a href="join.jsp"><button type="button" class="btn btn-primary">회원가입</button></a>
      </div>
    </header>
  </div>
```

main.jsp

홈 제품목록 고객관리 게시판 소개   로그인 회원가입

메인화면

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<%@ include file="header.jsp"%>
<div class="alert alert-primary">
<div class="container">
<h1 class="display-3">메인화면</h1>
</div>
```
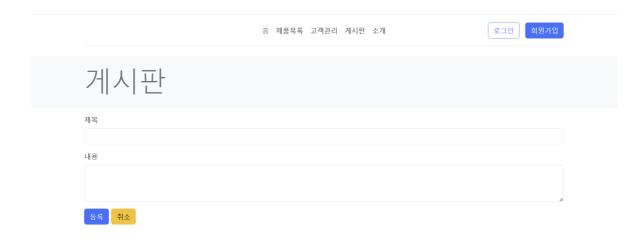
```
    </div>

    <%@ include file="footer.jsp"%>
    </body>


    <%if(request.getParameter("check") != null) { %>
    <div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
        <div class="modal-dialog">
          <div class="modal-content-xl" style=" background-color: yellow;">
            <div class="modal-header">
              <h1 class="modal-title xl-5" id="exampleModalLabel" style=" background-color: yellow; color: gray; ">SMS 발송성공</h1>
              <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
            </div>
            <div class="modal-body">
            <% String rphone1 = request.getParameter("rphone"); %>
          문자메시지 발송 성공하였습니다.
            </div>
            <div class="modal-footer">
              <button type="button" class="btn btn-primary" data-bs-dismiss="modal">확인</button>
              <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">취소</button>

            </div>
          </div>
        </div>
     </div>

    <script>
      $(function() {
        $("#exampleModal").modal("show");
      });
    </script>

<%} %>
</html>
```

board.jsp

| 홈 제품목록 고객관리 게시판 소개 | 로그인 회원가입 |

게시판

제목

내용

등록 취소

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body>
<%@ include file="/header.jsp"%>

<div class="alert alert-secondary">
```

```
<div class="container">
<h1 class="display-3">게시판</h1>
</div>
</div>

<div class="container">
<form action="boardCheck.jsp">
<div class="mb-3">
  <label for="exampleFormControlInput1" class="form-label">제목</label>
  <input type="text" class="form-control" name="subject" id="exampleFormControlInput1">
</div>
<div class="mb-3">
  <label for="exampleFormControlTextarea1" class="form-label">내용</label>
  <textarea class="form-control" name="content" id="exampleFormControlTextarea1" rows="3"></textarea>
</div>

<input type="submit" class="btn btn-primary" value="등록">
<input type="reset" class="btn btn-warning" value="취소">
</form>
</div>

<%@ include file="/footer.jsp"%>
</body>
</html>
```

join.jsp


```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>회원가입</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body>
<%@ include file="/header.jsp"%>

<div class="alert alert-secondary">
<div class="container">
<h1 class="display-3">회원가입</h1>
<!--  // 아이디 이름 비번 전화번호 -->
<!--  // 회원 가입 폼을 만들어 가입 성공 후 가입 축하 메시지를 폰으로 발송하세요. -->
<!--  // 홍길동 (본인이름) 회원님. 홈페이지 가입을 환영합니다. -->
</div>
</div>

<div class="container">
<form action="joinSmsCheck.jsp">
<div class="mb-3">
```

```
  <label for="exampleFormControlInput1" class="form-label">아이디</label>
  <input type="text" class="form-control" name="id" id="exampleFormControlInput1">
</div>
<div class="mb-3">
  <label for="exampleFormControlInput1" class="form-label">이름</label>
  <input type="text" class="form-control" name="name" id="exampleFormControlInput1">
</div>
<div class="mb-3">
  <label for="exampleFormControlInput1" class="form-label">비번</label>
  <input type="text" class="form-control" name="pass" id="exampleFormControlInput1">
</div>
<div class="mb-3">
  <label for="exampleFormControlInput1" class="form-label">전화번호</label>
  <input type="text" class="form-control" name="rphone" id="exampleFormControlInput1">
</div>

<input type="submit" class="btn btn-primary" value="등록">
<input type="reset" class="btn btn-warning" value="취소">
</form>
</div>


<%@ include file="/footer.jsp"%>
</body>
</html>
```

2. SMS 전송기능 추가하기(check.jsp)

게시판 등록, 회원가입을 할 때 SMS전송기능을 추가해보자.

boardCheck.jsp

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-GLh
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXY0G+8O0xUf+/Im1MZjXxxgOcBQBXU=" crossorig
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkMBDXo

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@page import="java.util.Base64.Encoder"%>
<%@page import="java.util.Base64.Decoder"%>
<%@page import="java.beans.*"%>
<%@page import="java.util.*"%>
<%@ page language="java" import="java.util.*, java.security.*, java.io.*, java.net.*" %>


<%

String subject = request.getParameter("subject");
String content = request.getParameter("content");


//  int result = boardDAO.insert(subject, content);

  int result = 1; //DB에 잘 저장이 되었다고 가정...

  //msg, rphone
  String rphone = "010-8779-5395"; // 고객 DB에서 글쓴이의 폰 번호를 조회해 온 것으로 가정

  if(result == 1) {
    //문자 메세지 전송하고 모달로 출력하고 메인으로 리다이렉트
    response.sendRedirect("boardSmsCheck.jsp?rphone=" + rphone + "&msg=" + URLEncoder.encode(subject));
  } else {
    // 글 등록이 실패 하였습니다. 다시 작성하세요. 모달로 출력하고 작성 페이지로 리다이렉트
  %>  <div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
    <div class="modal-dialog">
      <div class="modal-content-xl" style=" background-color: yellow;">
        <div class="modal-header">
          <h1 class="modal-title xl-5" id="exampleModalLabel" style=" background-color: yellow; color: gray; ">메시지</h1>
          <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
        </div>
        <div class="modal-body">
        <% String rphone1 = request.getParameter("rphone"); %>
        글 등록이 실패 하였습니다. 다시 작성하세요.

        </div>
        <div class="modal-footer">
```

```
        <button type="button" class="btn btn-primary" data-bs-dismiss="modal">확인</button>
        <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">취소</button>

      </div>
    </div>
  </div>
</div>

<script>
  $(function() {
    $("#exampleModal").modal("show");
  });
</script>

<%  response.sendRedirect("board.jsp");



  }




%>
```

boardSmsCheck.jsp

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-GLh
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXY0G+8OOxUf+/Im1MZjXxxgOcBQBXU=" crossori
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkMBDXo

<%@page import="java.util.Base64.Encoder"%>
<%@page import="java.util.Base64.Decoder"%>
<%@page import="java.beans.*"%>
<%@page import="java.util.*"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
    <%@ page language="java" import="java.util.*, java.security.*, java.io.*, java.net.*" %>
    <%!
    /**=========================================================
      Description        :  사용 함수 선언
    =========================================================**/
     /**
     * nullcheck
     * @param str, Defaultvalue
     * @return
     */

     public static String nullcheck(String str,  String Defaultvalue ) throws Exception
     {
         String ReturnDefault = "" ;
         if (str == null)
         {
             ReturnDefault =  Defaultvalue ;
         }
         else if (str == "" )
         {
             ReturnDefault =  Defaultvalue ;
         }
         else
         {
                   ReturnDefault = str ;
         }
          return ReturnDefault ;
     }
     /**
     * BASE64 Encoder
     * @param str
     * @return
     */

    public static String base64Encode(String str)  throws java.io.IOException {
```

```
        Encoder encoder = Base64.getEncoder();
        byte[] strByte = str.getBytes("UTF-8");
        String result = encoder.encodeToString(strByte);
        return result ;
    }

    /**
     * BASE64 Decoder
     * @param str
     * @return
     */
    public static String base64Decode(String str)  throws java.io.IOException {
        Decoder decoder = Base64.getDecoder();
        byte[] strByte = decoder.decode(str);
        String result = new String(strByte);
        return result ;
    }
%>
<%
/**===========================================================
  Description       : 캐릭터셋 정의
  EUC-KR: @ page contentType="text/html;charset=EUC-KR
  UTF-8: @ page contentType="text/html;charset=UTF-8
==========================================================**/
%>
<%@ page contentType="text/html; charset=UTF-8"%>
<%
/**===========================================================
  Description       :  사용자 샘플코드
==========================================================**/
String charsetType = "UTF-8"; //EUC-KR 또는 UTF-8

request.setCharacterEncoding(charsetType);
response.setCharacterEncoding(charsetType);
String  action     = "go";
    String sms_url = "";
    sms_url = "https://sslsms.cafe24.com/sms_sender.php"; // SMS 전송요청 URL
    String user_id = base64Encode("difbfl4750"); // SMS아이디
    String secure = base64Encode("d7bd49c5ccca5a790d6c7a221ab3ffd0");//인증키
    String msg = base64Encode(nullcheck(request.getParameter("msg"), ""));
    String rphone = base64Encode(nullcheck(request.getParameter("rphone"), ""));
    String sphone1 = base64Encode("010");
    String sphone2 = base64Encode("8779");
    String sphone3 = base64Encode("5395");
    String rdate = base64Encode(nullcheck(request.getParameter("rdate"), ""));
    String rtime = base64Encode(nullcheck(request.getParameter("rtime"), ""));
    String mode = base64Encode("1");
    String subject = "";

    String testflag = base64Encode(nullcheck(request.getParameter("testflag"), ""));
    String destination = base64Encode(nullcheck(request.getParameter("destination"), ""));
    String repeatFlag = base64Encode(nullcheck(request.getParameter("repeatFlag"), ""));
    String repeatNum = base64Encode(nullcheck(request.getParameter("repeatNum"), ""));
    String repeatTime = base64Encode(nullcheck(request.getParameter("repeatTime"), ""));
    String returnurl = nullcheck(request.getParameter("returnurl"), "");
    String nointeractive = nullcheck(request.getParameter("nointeractive"), "");
    String smsType = base64Encode("S");

    String[] host_info = sms_url.split("/");
    String host = host_info[2];
    String path = "/" + host_info[3];
    int port = 80;

    // 데이터 맵핑 변수 정의
    String arrKey[]
        = new String[] {"user_id","secure","msg", "rphone","sphone1","sphone2","sphone3","rdate","rtime"
                    ,"mode","testflag","destination","repeatFlag","repeatNum", "repeatTime", "smsType", "subject"};
    String valKey[]= new String[arrKey.length] ;
    valKey[0] = user_id;
    valKey[1] = secure;
    valKey[2] = msg;
    valKey[3] = rphone;
    valKey[4] = sphone1;
    valKey[5] = sphone2;
    valKey[6] = sphone3;
    valKey[7] = rdate;
    valKey[8] = rtime;
    valKey[9] = mode;
    valKey[10] = testflag;
    valKey[11] = destination;
    valKey[12] = repeatFlag;
    valKey[13] = repeatNum;
    valKey[14] = repeatTime;
    valKey[15] = smsType;
    valKey[16] = subject;

    String boundary = "";
```

```jsp
        Random rnd = new Random();
        String rndKey = Integer.toString(rnd.nextInt(32000));
        MessageDigest md = MessageDigest.getInstance("MD5");
        byte[] bytData = rndKey.getBytes();
        md.update(bytData);
        byte[] digest = md.digest();
        for(int i =0;i<digest.length;i++)
        {
            boundary = boundary + Integer.toHexString(digest[i] & 0xFF);
        }
        boundary = "--------------------"+boundary.substring(0,11);

        // 본문 생성
        String data = "";
        String index = "";
        String value = "";
        for (int i=0;i<arrKey.length; i++)
        {
            index =  arrKey[i];
            value = valKey[i];
            data +="--"+boundary+"\r\n";
            data += "Content-Disposition: form-data; name=\""+index+"\"\r\n";
            data += "\r\n"+value+"\r\n";
            data +="--"+boundary+"\r\n";
        }

        //out.println(data);

        InetAddress addr = InetAddress.getByName(host);
        Socket socket = new Socket(host, port);
        // 헤더 전송
        BufferedWriter wr = new BufferedWriter(new OutputStreamWriter(socket.getOutputStream(), charsetType));
        wr.write("POST "+path+" HTTP/1.0\r\n");
        wr.write("Content-Length: "+data.length()+"\r\n");
        wr.write("Content-type: multipart/form-data, boundary="+boundary+"\r\n");
        wr.write("\r\n");

        // 데이터 전송
        wr.write(data);
        wr.flush();

        // 결과값 얻기
        BufferedReader rd = new BufferedReader(new InputStreamReader(socket.getInputStream(),charsetType));
        String line;
        String alert = "";
        ArrayList tmpArr = new ArrayList();
        while ((line = rd.readLine()) != null) {
            tmpArr.add(line);
        }
        wr.close();
        rd.close();

//모달로 발송성공 창 띄우기 창 제목 "SMS 발송성공" 내용 "문자메시지 발송 성공하였습니다."
//문자로 "모달테스트"
%>
<div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
    <div class="modal-dialog">
      <div class="modal-content-xl" style=" background-color: yellow;">
        <div class="modal-header">
          <h1 class="modal-title xl-5" id="exampleModalLabel" style=" background-color: yellow; color: gray; ">SMS 발송성공</h1>
          <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
        </div>
        <div class="modal-body">
        <% String rphone1 = request.getParameter("rphone"); %>
        문자메시지 발송 성공하였습니다. <br><br>
        수신인 <br>
         <input type="text" class="form-control" placeholder=<%=rphone1 %>>
        발송인 <br>
                        <input type="text" class="form-control" placeholder="010-8779-5395">


        </div>
        <div class="modal-footer">
          <button type="button" class="btn btn-primary" data-bs-dismiss="modal">확인</button>
          <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">취소</button>


        </div>
      </div>
    </div>
  </div>

  <script>
    $(function() {
      $("#exampleModal").modal("show");
    });
  </script>
<%response.sendRedirect("/smsExam/main.jsp?check=check"); %>
```

```
<!--        out.println("<script>location.href='success.jsp';</script>"); -->
```

joinSmsCheck.jsp

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-GLh` 
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXY0G+8O0xUf+/Im1MZjXxxgOcBQBXU=" crossorig 
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkMBDXo3

<%@page import="java.util.Base64.Encoder"%>
<%@page import="java.util.Base64.Decoder"%>
<%@page import="java.beans.*"%>
<%@page import="java.util.*"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
    <%@ page language="java" import="java.util.*, java.security.*, java.io.*, java.net.*" %>
    <%!
    /**==========================================================
     Description        :  사용 함수 선언
    ==========================================================**/
     /**
     * nullcheck
     * @param str, Defaultvalue
     * @return
     */

     public static String nullcheck(String str,  String Defaultvalue ) throws Exception
     {
         String ReturnDefault = "" ;
         if (str == null)
         {
             ReturnDefault =  Defaultvalue ;
         }
         else if (str == "" )
         {
             ReturnDefault =  Defaultvalue ;
         }
         else
         {
                 ReturnDefault = str ;
         }
          return ReturnDefault ;
     }
     /**
     * BASE64 Encoder
     * @param str
     * @return
     */

    public static String base64Encode(String str)  throws java.io.IOException {
        Encoder encoder = Base64.getEncoder();
        byte[] strByte = str.getBytes("UTF-8");
        String result = encoder.encodeToString(strByte);
        return result ;
    }

    /**
     * BASE64 Decoder
     * @param str
     * @return
     */
    public static String base64Decode(String str)  throws java.io.IOException {
        Decoder decoder = Base64.getDecoder();
        byte[] strByte = decoder.decode(str);
        String result = new String(strByte);
        return result ;
    }
    %>
    <%
    /**==========================================================
      Description        : 캐릭터셋 정의
      EUC-KR: @ page contentType="text/html;charset=EUC-KR
      UTF-8: @ page contentType="text/html;charset=UTF-8
    ==========================================================**/
    %>
    <%@ page contentType="text/html; charset=UTF-8"%>
    <%
    /**==========================================================
      Description        :  사용자 샘플코드
    ==========================================================**/
```

```
        String charsetType = "UTF-8"; //EUC-KR 또는 UTF-8

request.setCharacterEncoding(charsetType);
response.setCharacterEncoding(charsetType);
String  action      = "go";
String msg1 = request.getParameter("name");
String msg2 = msg1 + "회원님. 홈페이지 가입을 환영합니다.";
    String sms_url = "";
    sms_url = "https://sslsms.cafe24.com/sms_sender.php"; // SMS 전송요청 URL
    String user_id = base64Encode("difbfl4750"); // SMS아이디
    String secure = base64Encode("d7bd49c5ccca5a790d6c7a221ab3ffd0");//인증키
    String msg = base64Encode(nullcheck(msg2, ""));
    String rphone = base64Encode(nullcheck(request.getParameter("rphone"), ""));
    String sphone1 = base64Encode("010");
    String sphone2 = base64Encode("8779");
    String sphone3 = base64Encode("5395");
    String rdate = base64Encode(nullcheck(request.getParameter("rdate"), ""));
    String rtime = base64Encode(nullcheck(request.getParameter("rtime"), ""));
    String mode = base64Encode("1");
    String subject = "";

    String testflag = base64Encode(nullcheck(request.getParameter("testflag"), ""));
    String destination = base64Encode(nullcheck(request.getParameter("destination"), ""));
    String repeatFlag = base64Encode(nullcheck(request.getParameter("repeatFlag"), ""));
    String repeatNum = base64Encode(nullcheck(request.getParameter("repeatNum"), ""));
    String repeatTime = base64Encode(nullcheck(request.getParameter("repeatTime"), ""));
    String returnurl = nullcheck(request.getParameter("returnurl"), "");
    String nointeractive = nullcheck(request.getParameter("nointeractive"), "");
    String smsType = base64Encode("S");

    String[] host_info = sms_url.split("/");
    String host = host_info[2];
    String path = "/" + host_info[3];
    int port = 80;

    // 데이터 맵핑 변수 정의
    String arrKey[]
        = new String[] {"user_id","secure","msg", "rphone","sphone1","sphone2","sphone3","rdate","rtime"
                    ,"mode","testflag","destination","repeatFlag","repeatNum", "repeatTime", "smsType", "subject"};
    String valKey[]= new String[arrKey.length] ;
    valKey[0] = user_id;
    valKey[1] = secure;
    valKey[2] = msg;
    valKey[3] = rphone;
    valKey[4] = sphone1;
    valKey[5] = sphone2;
    valKey[6] = sphone3;
    valKey[7] = rdate;
    valKey[8] = rtime;
    valKey[9] = mode;
    valKey[10] = testflag;
    valKey[11] = destination;
    valKey[12] = repeatFlag;
    valKey[13] = repeatNum;
    valKey[14] = repeatTime;
    valKey[15] = smsType;
    valKey[16] = subject;

    String boundary = "";
    Random rnd = new Random();
    String rndKey = Integer.toString(rnd.nextInt(32000));
    MessageDigest md = MessageDigest.getInstance("MD5");
    byte[] bytData = rndKey.getBytes();
    md.update(bytData);
    byte[] digest = md.digest();
    for(int i =0;i<digest.length;i++)
    {
        boundary = boundary + Integer.toHexString(digest[i] & 0xFF);
    }
    boundary = "--------------------"+boundary.substring(0,11);

    // 본문 생성
    String data = "";
    String index = "";
    String value = "";
    for (int i=0;i<arrKey.length; i++)
    {
        index =  arrKey[i];
        value = valKey[i];
        data +="--"+boundary+"\r\n";
        data += "Content-Disposition: form-data; name=\""+index+"\"\r\n";
        data += "\r\n"+value+"\r\n";
        data +="--"+boundary+"\r\n";
    }

    //out.println(data);
```

```
        InetAddress addr = InetAddress.getByName(host);
        Socket socket = new Socket(host, port);
        // 헤더 전송
        BufferedWriter wr = new BufferedWriter(new OutputStreamWriter(socket.getOutputStream(), charsetType));
        wr.write("POST "+path+" HTTP/1.0\r\n");
        wr.write("Content-Length: "+data.length()+"\r\n");
        wr.write("Content-type: multipart/form-data, boundary="+boundary+"\r\n");
        wr.write("\r\n");

        // 데이터 전송
        wr.write(data);
        wr.flush();

        // 결과값 얻기
        BufferedReader rd = new BufferedReader(new InputStreamReader(socket.getInputStream(),charsetType));
        String line;
        String alert = "";
        ArrayList tmpArr = new ArrayList();
        while ((line = rd.readLine()) != null) {
            tmpArr.add(line);
        }
        wr.close();
        rd.close();

//모달로 발송성공 창 띄우기 창 제목 "SMS 발송성공" 내용 "문자메시지 발송 성공하였습니다."
//문자로 "모달테스트"


%>
<div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
    <div class="modal-dialog">
      <div class="modal-content-xl" style=" background-color: yellow;">
        <div class="modal-header">
          <h1 class="modal-title xl-5" id="exampleModalLabel" style=" background-color: yellow; color: gray; ">SMS 발송성공</h1>
          <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
        </div>
        <div class="modal-body">
        <% String rphone1 = request.getParameter("rphone"); %>
        <% String name = request.getParameter("name"); %>
       <%=name %> 회원님. 홈페이지 가입을 환영합니다. <br><br>
        </div>
        <div class="modal-footer">
          <button type="button" class="btn btn-primary" data-bs-dismiss="modal">확인</button>
          <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">취소</button>

        </div>
      </div>
    </div>
  </div>

  <script>
    $(function() {
      $("#exampleModal").modal("show");
    });
  </script>
 <%-- <%response.sendRedirect("main.jsp"); %> --%>
```

이처럼 다양한 API를 다양하게 응용해서 사용할 수 있다.