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import cn.hutool.core.codec.Base64;
import cn.hutool.crypto.digest.HMac;
import cn.hutool.crypto.digest.MD5;
import cn.hutool.http.HttpRequest;
import com.alibaba.fastjson.JSON;
import com.alibaba.fastjson.JSONObject;

import jakarta.annotation.Resource;
import lombok.extern.slf4j.Slf4j;
import org.springframework.stereotype.Service;

public void s000601() {
    String appsecret = tenantConfiguration.getAppSecret();
    String url = urlConfiguration.getUri() + urlConfiguration.getInvoice() +
"s000601";
    log.info("url:{}", url);
    JSONObject object = new JSONObject();

    object.put("appid", tenantConfiguration.getAppId());
    object.put("serviceid", "s000601");
    object.put("nsrsbh", userConfiguration.getNsrsbh());
    object.put("jtnsrsbh", userConfiguration.getJtnsrsbh());

    JSONObject con = new JSONObject();
    con.put("sjlx", "1");
    con.put("fplx", "81,82,83,84,85,86,08,10,01,04,03,15,11,14,61,51");
    con.put("fpzt", "01,02,03,04");
    con.put("kprqq",
LocalDate.now().minusMonths(11).withDayOfMonth(1).toString());
    con.put("kprqz",
LocalDate.now().minusMonths(1).withDayOfMonth(LocalDate.now().minusMonths(1).lengthOf
Month()).toString());
    con.put("iszip", "1");
    object.put("con", con);

    // 1. 业务content字段 (Base64编码)
    String contentJson = JSON.toJSONString(con);
    String contentBase64 = Base64.encode(contentJson);

    // 2. 签名signType 0 (HmacSHA256)
    String signType = "1"; // 或者 "1"
    String signature = "";

    if ("0".equals(signType)) {
        // HmacSHA256
        String toSign =
String.format("appid=%s&content=%s&jtnsrsbh=%s&nsrsbh=%s&serviceid=%s",
                object.get("appid"), contentBase64, object.get("jtnsrsbh"),
object.get("nsrsbh"), object.get("serviceid"));
        HMac hMac = new HMac("HmacSHA256",
appsecret.getBytes(StandardCharsets.UTF_8));
        signature = Base64.encode(hMac.digest(toSign));
    } else {
        // MD5

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        String toSign = object.get("appid") + appsecret + contentBase64 +
object.get("jtnsrsh") + object.get("nsrsh") + object.get("serviceid");
        signature = MD5.create().digestHex(toSign).toUpperCase();
    }

    // 3. 发送POST请求 (x-www-form-urlencoded)
    HttpRequest form = HttpRequest.post(url)
        .header("Content-Type", "application/x-www-form-urlencoded")
        .form("appid", object.get("appid"))
        .form("serviceid", object.get("serviceid"))
        .form("nsrsh", object.get("nsrsh"))
        .form("jtnsrsh", object.get("jtnsrsh"))
        .form("content", contentBase64)
        .form("signature", signature)
        .form("signType", signType);
    System.out.println("form.toString() = " + form.toString());
    String response = form
        .execute()
        .body();

    System.out.println("Response: " + response);

    // 4. 解析返回的content
    JSONObject jsonObject = JSON.parseObject(response);
    String respContent = jsonObject.getString("content");
    System.out.println("解压后内容: " + ZipUtil.unzipDecode(respContent,
"1".equals(con.get("iszip"))));
}

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