Base64

- description : Base64
- author :
- email : shlim@repia.com
- lastupdate : 2022-05-11 Wed

Base64

1.

Apps.repia.com > R-Utils > Crypto - select box - Base64

2.

Appsportal > CryptoServiceImpl.java

2.1 Base64 Import

```
import org.apache.commons.codec.binary.Base64
```

2.1.1 Ref Link

org.apache.commons.codec.binary - Class Base64

3.1

- A ( ) : (html)
- B ( ) : Crypto-Base64 Decryption( )
- C ( ) : B Crypto-Base64 Encryption( )
- D ( ) : Base64 Decode and Encode A
- E ( ) : Base64 Decode and Encode D

: html　　　　　, A　E　　　　　　　　　　　, C

Example

Crypto-Base64

```
     : <head>

encryptInptFld : &lt;head&gt;       // F (        Crypto              &
 )

encryptRsltFls : Jmx0O2hlYWQmZ3Q7  // G (F   Base64                    )
```

```
     : <head>

          : PGhlYWQ+
```

3.2

3.2.1

```java
else if("base64".equals(cryptoVO.getCryptoMethod())) {    // Base64 (binary-
to-text encoding schemes)
    if(cryptoVO.getEncryptInptFld()!==null) {            // encryption(
 )

        byte[] encryptInputByte =
cryptoVO.getEncryptInptFld().getBytes("UTF-8");    // encryption
charset=UTF-8        byte        encryptInputByte
resultData.setEncryptRsltFld(Base64.encodeBase64String(encryptInputByte));
// UTF-8           encryptInputByte  Base64
    }
    else if(cryptoVO.getDecryptInptFld()!==null) {
        String decodeStr = new
String(Base64.decodeBase64(cryptoVO.getDecryptInptFld()), "UTF-8");  //
Base64        UTF-8              String        decodeStr
        resultData.setDecryptRsltFld(decodeStr);
    }
}
```

3.2.2 1

```java
else if("base64".equals(cryptoVO.getCryptoMethod())) {
    if(cryptoVO.getEncryptInptFld()!==null) {

        byte[] encryptInputByte =
StringEscapeUtils.unescapeHtml(cryptoVO.getEncryptInptFld()).getBytes("UTF-8
");
        //1          - "< "   "&lt;"
StringEscapeUtils.unescapeHtml
resultData.setEncryptRsltFld(Base64.encodeBase64String(encryptInputByte));
    }
    else if(cryptoVO.getDecryptInptFld()!==null) {
        String decodeStr = new
String(Base64.decodeBase64(cryptoVO.getDecryptInptFld()), "UTF-8");
        resultData.setDecryptRsltFld(decodeStr);
    }
}
```

3.2.3 2

cryptoVo.getEncryptInptFld()

, 2.3.1

```java
...
/*                      '<' -> '&lt;' -> '<' */

if(StringUtils.isNotEmpty(cryptoVO.getEncryptInptFld())){    //
    String unEscapeInputField =
StringEscapeUtils.unescapeHtml(cryptoVO.getEncryptInptFld());
    cryptoVO.setEncryptInptFld(unEscapeInputField);

    log.info("[{}]/[{}]/[{}]", cryptoVO.getEncryptInptFld(),
StringEscapeUtils.escapeHtml(cryptoVO.getEncryptInptFld()),
StringEscapeUtils.unescapeHtml(cryptoVO.getEncryptInptFld()));
}
...
...
...
else if("base64".equals(cryptoVO.getCryptoMethod())) {
    if(cryptoVO.getEncryptInptFld()!==null) {

        byte[] encryptInputByte =
cryptoVO.getEncryptInptFld().getBytes("UTF-8");
resultData.setEncryptRsltFld(Base64.encodeBase64String(encryptInputByte));
    }
    else if(cryptoVO.getDecryptInptFld()!==null) {
```

```java
        String decodeStr = new
String(Base64.decodeBase64(cryptoVO.getDecryptInptFld()), "UTF-8");
        resultData.setDecryptRsltFld(decodeStr);
    }
}
```

3.2

Crypto-unescapeHtml   Decrypt Text

Decrypt Text

Decrypt Text

input Text   <p>MyName</p> →
&lt;p&gt;MyName&lt;/p&gt;   .

3.2.1 -

```html
<!-- Input Encrypted ID or Password field -->
<label for="decryptInptText" class="decryptInptTtl">Input Text</label>
<input id="decryptInptText" class="decryptInptFld" name="decryptInptFld"
type="text" placeholder="        ID     Password             " value="<c:out
value="${inputParam.decryptInptFld}" />"/>
```

```html
<!-- Input Encrypted ID or Password field -->
<label for="decryptInptText" class="decryptInptTtl">Input Text</label>
<input id="decryptInptText" class="decryptInptFld" name="decryptInptFld"
type="text" placeholder="        ID     Password             " value="<c:out
```

```
value="${inputParam.decryptInptFld}" escapeXml="false"/>"/>
```

Decrypt Text

input Text   <p>MyName</p>

.

Ref Link

[JSTL] Tag   jsp   , escapeXml
JSTL Core - Tag out

JSTL Core - Tag out   **escapeXml**   .

> Determines whether characters <,>,&,',‟ in the resulting string should be converted to their corresponding character entity codes. Default value is true.
> **<, >, &, ', "**   .
> true   .

,, base64