

Element Technology – Exchange Rate Calculation

Summary

A function to calculate the exchange rate based on a list of exchange quotations provided by Korea Exchange Bank (KEB).

Description

It has a function to calculate the exchange rates including Korean (KRW), the USA (USD), the EU (EUR), Japanese (JPY) and Chinese (CNY) currencies.

Related Sources

Type	Corresponding Sources	Description	Remarks
Service	egovframework.com.utl.fcc.service.EgovEhgtCalcUtil.java	Exchange rate utility	
Controller	egovframework.com.cmm.web.EgovComUtilController.java	A controller for testing	
JSP	/WEB-INF/jsp/egovframework/cmm/utl/EgovEhgtCalc.jsp	A test page on exchange rates	

Method

Output	Method	Description	Details
String	getEhgtCalc(String srcType, long srcAmount, String cnvrType)	Exchange rate calculation	A function to calculate the exchange rates based on a list of exchange quotations

Input

- Specific Numbers: Long- type numbers
- Validation Check: [Element technology_validation_check](#)

Output

- String

Environmental Settings

N/A

Manual

```

import egovframework.com.utl.fcc.service.EgovEhgtCalcUtil;
...
<td>
    <select name="BeforeCondition" class="select">
        <option selected value='K'>Korea(KRW)</option>
        <option value='K'>Korea(KRW)</option>
        <option value='U'>USA(USD)</option>
        <option value='E'>EU(EUR)</option>
        <option value='J'>Japan(JPY)</option>
        <option value='C'>China(CNY)</option>
    </select>
</td>
<td>
    original amount:<input type = "text" name="srcAmount" size=10 > - >

```

```

</td>
<td>
    <select name="AfterCondition" class="select">
        <option selected value='K'>Korea(KRW)</option>
        <option value='K'>Korea(KRW)</option>
        <option value='U'>USA(USD)</option>
        <option value='E'>EU(EUR)</option>
        <option value='J'>Japan(JPY)</option>
        <option value='C'>China(CNY)</option>
    </select>
</td>

// the currency of an originating country
String srcType = safeGetParameter(request,"BeforeCondition");
// an amount to be calculated
Long srcAmount = Long.parseLong(safeGetParameter(request,"srcAmount"));
// the currency of a country that is converted
String cnvrType = safeGetParameter(request,"AfterCondition");

String resultStr = EgovEhgtCalcUtil.getEhgtCalc(srcType, srcAmount, cnvrType);

```

Exchange Rate Test Screen

The screenshot shows a user interface for an exchange rate calculator. On the left, there are four input fields: '대한민국(KRW)' (selected), '원금액: 1000000' (amount), '미국(USD)' (selected), and '환율계산!' (Calculate Exchange Rate). To the right is a detailed view of exchange rates for various currencies, with USD at 1295.00, JPY at 1330.25, EUR at 1719.11, and CNY at 189.76. Below this is a summary row showing '변환유형: K' (Conversion Type: K), '원금액: 1000000' (Amount: 1000000), '변환유형: U' (Conversion Type: U), and '변환금액: 772,20 USD' (Converted Amount: 772,20 USD).

기타			
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기타 매매기준율 미화환산율			
USD	1295.00	1.00	
JPY	1330.25	1.03	
EUR	1719.11	1.33	
CNY	189.76	0.15	

References

N/A