

XML Data Assembly

Summary

It provides a function to assemble generally- structured data into XML data and save them as files. XML data assembly can be used in applications such as Web Service, Electronic Document and Data Swapping.

This function is included in the Egovframework common component element technology.

Description

- ① Function to assemble generally- structured data into XML data and save them as files

Related Sources

Type	Corresponding Sources	Description	Remarks
Service	egovframework.com.utl.sim.service.EgovXMLDoc.java	An element technology class on XML parsing/assembly	
JSP	WEB_INF/jsp/egovframework/cmm/utl/EgovXMLDoc.jsp	A test page	

Method

Output	Method	Description	Details
boolean	creatSchemaToClass(String xml, String ja)	Creating a class	Creating an appropriate JAVA class by reading the XML schema structure
SndngMailDocument	getXMLToClass(String file)	XML parsing	Returning the content in the e-mail sending class (temporary) by parsing the XML file
boolean	getClassToXML(SndngMailDocument mailDoc, String file)	XML assembly	Saving the data of e-mail sending(temporary) object as the XML file
Document	getXMLDocument(String xml)	XML parsing	Returning the document object that can manipulate data by parsing the XML file
Element	getRootElement(Document document)	Moving ROOT	Moving to the highest element of the document
Element	insertElement(Document document, Element rt, String id)	Creating a node	Creating a lower new element
Element	insertElement(Document document, Element rt, String id, String text)	Creating a string	Creating a lower new element that has the string
Text	insertText(Document document, Element rt, String text)	Adding a string	Adding a lower string
Element	getParentNode(Element current)	Returning an upper node	Returning the last inserted or referenced XML node upper element
boolean	getXMLFile(Document document, String file)	XML assembly	Saving the document object as the XML file

Input

- Message ID: String- type date (ex. MAILMSG_000000000001)
- Sender: String- type date (ex. sndng_user)

- Receiver: Integer- type size (ex. test@test.com)
- Title: Integer- type size (ex. test mail)
- Content: String- type file owner (creator) (ex. This is test mail.)
- Send Status: String- type file owner (creator) (ex. R)
- XML Result File: String- type file owner (creator) (ex. /user/com/test/mail.result.xml)
- Validation Check: [Element technology validation check](#)

Output

- Boolean- type true / false

Environmental Settings

N/A

Manual

```
import egovframework.com.utl.sim.service.EgovXMLDoc;

// Information is included in the (temporary) e- mail class to be assembled into the XML file
String file = request.getParameter("file");
String dsptchPerson = request.getParameter("dsptchPerson");
String recptnPerson = request.getParameter("recptnPerson");
String sj = request.getParameter("sj");
String emailCn = request.getParameter("emailCn");
String sndngResultCode = request.getParameter("sndngResultCode");

boolean result = false;
if (file != null && file.length() > 0
    && dsptchPerson != null && dsptchPerson.length() > 0
    && recptnPerson != null && recptnPerson.length() > 0
    && sj != null && sj.length() > 0
    && emailCn != null && emailCn.length() > 0
    && sndngResultCode != null && sndngResultCode.length() > 0
) {

    SndngMailDocument mailDoc;
    SndngMailDocument.SndngMail mailElement;
    mailDoc = SndngMailDocument.Factory.newInstance();
    mailElement = mailDoc.addNewSndngMail();
    mailElement.setDsptchPerson(dsptchPerson);
    mailElement.setRecptnPerson(recptnPerson);
    mailElement.setSj(sj);
    mailElement.setEmailCn(emailCn);
    mailElement.setSndngResultCode(sndngResultCode);

    result = EgovXMLDoc.getClassToXML(mailDoc, file);

}
```

For element technology testing, XML schema is used to create a class that temporary contains e- mail information. This is applied to configure assembly/parsing of the XML file into the class, and the class data into the XML file.

References

- Reference to XML Beans: [marshalling unmarshalling](#)