Role management

Summary

Role management provides the authority of accessing to the system in accordance with the authority information granted for the user or each user group which uses the system, and furnishes the function of managing the role information related with the above function.

Description

Role management accompanies the functions of **registration, modification, deletion, inquiry,** and **list inquiry** of the role with the purpose of managing the role information for each user authority.

　① Role registration: Access information of access authority, data input, modification, and deletion in accordance with the system menu and function screen is registered.
　② Role modification: Access information of access authority, data input, modification, and deletion in accordance with the system menu and function screen is modified.
　③ Role deletion: Access information of access authority, data input, modification, and deletion in accordance with the system menu and function screen is deleted.
　④ Role inquiry: Access information of access authority, data input, modification, and deletion in accordance with the system menu and function screen is inquired.
　⑤ Role list: Access information list of access authority, data input, modification, and deletion in accordance with the system menu and function screen is inquired.

Description

Package Dependency

Role management package has direct functional dependency for the common package (cmm) of element technology and authority management package. However, in order to be executed without error during the component distribution, the distribution file is constituted with the department authority management, authority group management, group management, spring security, user integrated certification, element technology (utility) system, format/date/calculation, web editor, and mail connection interface package in accordance with the dependency between packages.

- Dependency between packages:　Security Package Dependency

Related Sources

Type	Name of Corresponded Source	Remarks
Controller	egovframework.com.sec.rmt.web.EgovRoleManageController.java	Controller class for role management
Service	egovframework.com.sec.rmt.service.EgovRoleManageService.java	Service interface for role management
ServiceImpl	egovframework.com.sec.rmt.service.impl.EgovRoleManageServiceImpl.java	Service implementation class for role management
VO	egovframework.com.sec.rmt.service.RoleManageVO.java	VO class for role management
DAO	egovframework.com.sec.rmt.service.impl.RoleManageDAO.java	Data processing class for role

		management
Model	egovframework.com.sec.rmt.service.RoleManage.java	Model class for role management
JSP	/WEB-INF/jsp/egovframework/com/sec/rmt/EgovRoleManage.jsp	jsp page for role registration
JSP	/WEB-INF/jsp/egovframework/com/sec/rmt/EgovRoleInsert.jsp	jsp page for role registration
JSP	/WEB-INF/jsp/egovframework/com/sec/rmt/EgovRoleUpdate.jsp	jsp page for role modification
QUERY XML	resources/egovframework/sqlmap/com/sec/rmt/EgovRoleManage_SQL_Mysql.xml	QUERY XML for MySQL for role management
QUERY XML	resources/egovframework/sqlmap/com/sec/rmt/EgovRoleManage_SQL_Oracle.xml	QUERY XML for Oracle for role management
QUERY XML	resources/egovframework/sqlmap/com/sec/rmt/EgovRoleManage_SQL_Tibero.xml	QUERY XML for Tibero for role management
QUERY XML	resources/egovframework/sqlmap/com/sec/rmt/EgovRoleManage_SQL_Altibase.xml	QUERY XML for Altibase for role management
Message properties	resources/egovframework/message/com/message-common_ko_KR.properties	Message properties for role management
Idgen XML	resources/egovframework/spring/com/context-idgen.xml	Role management Id generation Idgen XML

Class Diagram
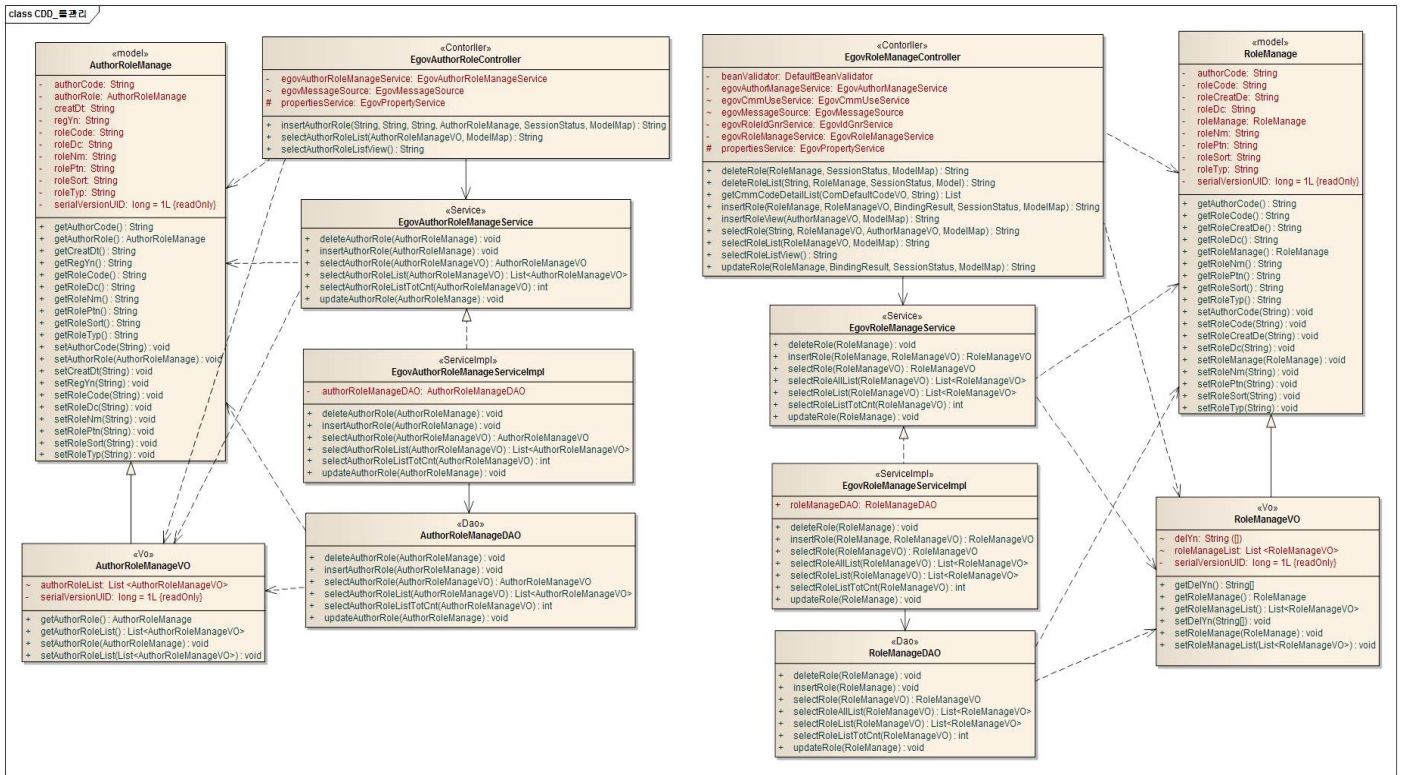
XML setup file

Name of file	Location	Remarks
context-security	src/main/resources/egovframework/spring/com/context-security.xml	The file in which the setup related with spring security is applied

ID Generation

ID Generation related DDL & DML

- In order to utilize ID Generation Service, **ROLE_ID** item is added to COMTECOPSEQ which the Sequence storage table.

```
CREATE TABLE COMTECOPSEQ ( table_name varchar(16) NOT NULL,
                next_id DECIMAL(30) NOT NULL,
                PRIMARY KEY (table_name));

INSERT INTO COMTECOPSEQ VALUES('ROLE_ID','0');
```

ID Generation Configuration (context-idgen.xml)

```
<bean name="egovLoginLogIdGnrService"
  <bean name="egovRoleIdGnrService"
      class="egovframework.rte.fdl.idgnr.impl.EgovTableIdGnrService"
      destroy-method="destroy">
    <property name="dataSource" ref="egov.dataSource" />
    <property name="strategy"    ref="roleIdStrategy" />
    <property name="blockSize"   value="1"/>
    <property name="table"        value="COMTECOPSEQ"/>
    <property name="tableName"   value="ROLE_ID"/>
  </bean>
```

```
<bean name="roleIdStrategy"
    class="egovframework.rte.fdl.idgnr.impl.strategy.EgovIdGnrStrategyImpl">
    <property name="prefix" value="" />
    <property name="cipers" value="6" />
    <property name="fillChar" value="0" />
</bean>
```

Table

Name of table	Name of table (English)	Remarks
Role information	COMTNROLEINFO	As the security element subjected to the authority, the registration role, modification role, and deletion role under the site access authority can be granted.

Related Code

The common code for role type among the attribute of role management is defined.

Classification of code	Classification name of code	Code ID	Name of code
COM029	Role type code	url	URL
COM029	Role type code	method	METHOD
COM029	Role type code	pointcut	POINTCUT

Related functions

Role management function is largely classified into the functions of **role list inquiry, role registration, role modification,** and **role deletion**.

Role list inquiry

Business rule

Role list is inquired with the unit of 10 cases per page, and paging is realized with the unit of 10 pages. Search condition is performed for the role name.

Related Code

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Inquiry	/sec/rmt/EgovRoleList.do	selectRoleList	"roleManageDAO.selectRoleList",
			"roleManageDAO.selectAuthorListTotCnt"

☐	롤 ID	롤 명	롤 타입	롤 Sort	롤 설명	등록일자	
☐	web-000004	모든 사용자 롤	URL	106	/sym/cmm/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000005	인증된 사용자 롤	URL	201	/sym/mms/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000007	모든 사용자 롤	URL	109	/uat/uia/*.* 접근 롤 부여	2009-04-20	🔍
☐	web-000008	보안 담당자 롤	URL	801	/cmm/sec/ram/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000016	업무사용자 관리자 롤	URL	701	/uss/umt/user/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000017	일반회원 관리자 롤	URL	702	/uss/umt/mber/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000019	기업회원 관리자 롤	URL	703	/uss/umt/entrprs/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000020	모든 사용자 롤	URL	108	/cmm/fms/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000027	모든 사용자 롤	URL	107	/uss/umt/cmm/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000028	모든 사용자 롤	URL	101	/cop/ncm/*.do 접근 롤 부여	2009-04-20	🔍

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정상적으로 조회되었습니다.

Inquiry condition: Perform the inquiry after inputting the role name as the inquiry condition.
Inquiry: Perform the inquiry of the registered role information list.
Registrer: In the case of registering the role information, when the registration button is selected, it is moved to the screen where role can be registered.

Role registration

Business rule

In order to **register** the role information, select the registration button after inputting the role information to each input item of role registration screen.

Related code

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Registration	/sec/rmt/EgovRoleInsert.do	insertRole	"roleManageDAO.insertRole"

List: It is moved to the role list screen.
Registration: When registering the role information as the new one, select the registration button after inputting each of the attribute information.

Role modification

Business rule

Role modification screen is identical with the detailed inquiry screen, and select the registration button after modifying the already registered role information.

Related code

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Update	/sec/rmt/EgovRoleUpdate.do	updateRole	"roleManageDAO.updateRole"
Deletion	/sec/rmt/EgovRole.do	selectRole	"roleManageDAO.selectRole"

List: It is moved to the role list screen.
Modify: When modifying the role information, select the Modify button after changing each of the attribute information.
Delete: Delete the role information by selecting the Delete button.

Role deletion

Business rule

In order to **delete** the role information, select the Delete button after selecting the role information which is the subject of deletion from the role list inquiry screen.

Related Code

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Deletion	/sec/rmt/EgovRoleDelete.do	deleteRole	"roleManageDAO.deleteRole"

	롤 ID	롤 명	롤 타입	롤 Sort	롤 설명	등록일자	
☐	web-000004	모든 사용자 롤	URL	106	/sym/cmm/*.do 접근 롤 부여	2009-04-27	🔍
☑	web-000005	인증된 사용자 롤	URL	201	/sym/mms/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000007	모든 사용자 롤	URL	109	/uat/uia/*.* 접근 롤 부여	2009-04-20	🔍
☐	web-000008	보안 담당자 롤	URL	801	/cmm/sec/ram/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000016	업무사용자 관리자 롤	URL	701	/uss/umt/user/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000017	일반회원 관리자 롤	URL	702	/uss/umt/mber/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000019	기업회원 관리자 롤	URL	703	/uss/umt/entrprs/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000020	모든 사용자 롤	URL	108	/cmm/fms/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000027	모든 사용자 롤	URL	107	/uss/umt/cmm/*.do 접근 롤 부여	2009-04-20	🔍
☐	web-000028	모든 사용자 롤	URL	101	/cop/ncm/*.do 접근 롤 부여	2009-04-20	🔍

롤 관리   롤 명 :   [조회] [등록] [삭제]

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정상적으로 조회되었습니다.

Select: Set up the role information to be deleted. Multi-selection can be conducted.
Delete: Delete the role information by selecting the Delete button.