Q&A management

Summary

This is the management function of Q&A details and processing, and it is comprised of the functions of registering the Q&A details and also registering the reply writing of administrator.

Description

Package Dependency

Q&A management package has direct functional dependency only for the common (cmm) package of element technology and system package (sim). However, in order to be executed without error during the component distribution, the distribution file is constituted with the format/date/calculation package in accordance with the dependency between packages.
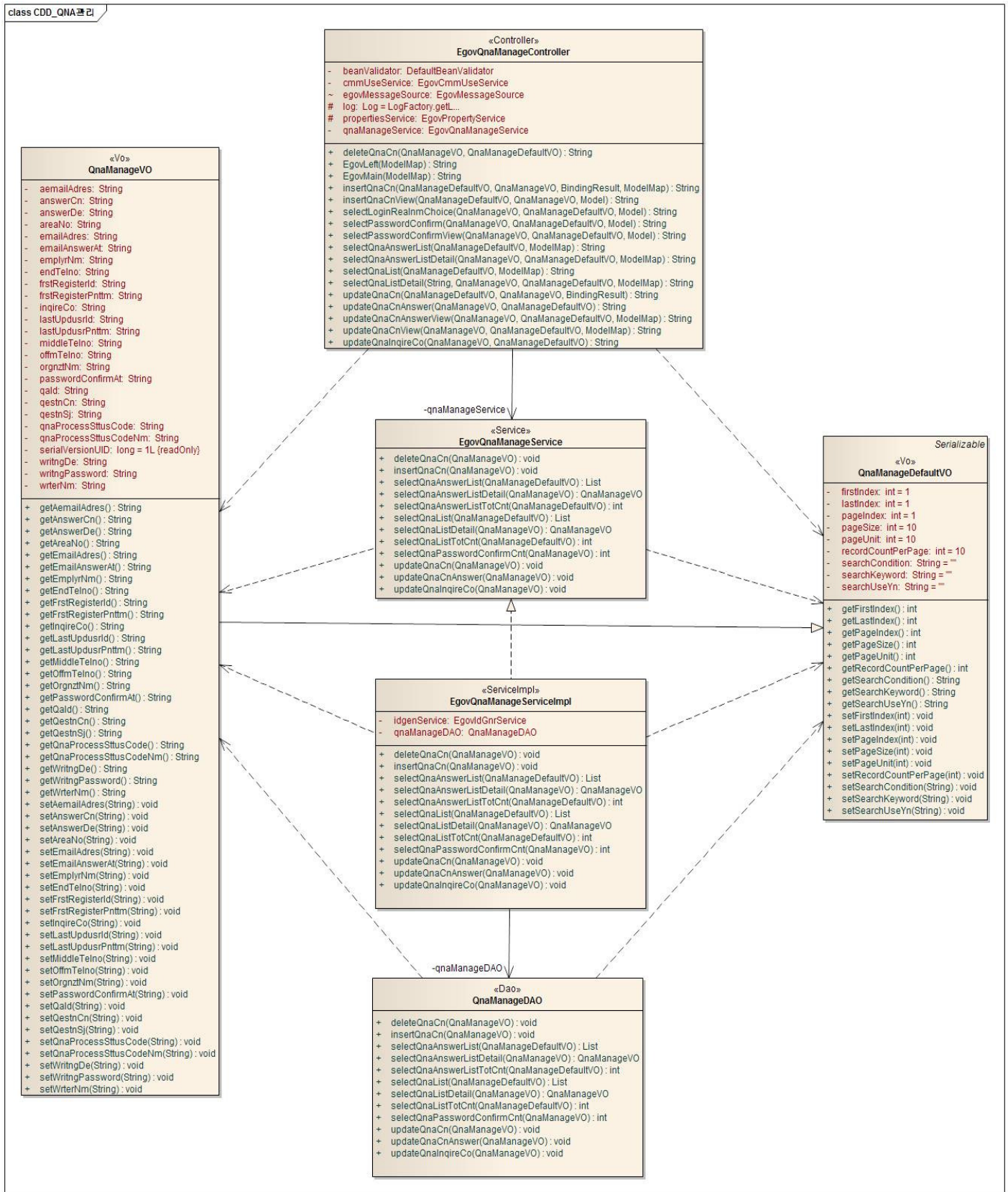
- Dependency between packages: User support Package Dependency

Related Sources

Type	Name of Corresponded Source	Remarks
Controller	egovframework.com.uss.olh.qna.web.EgovQnaManageController.java	Controller class for Q&A management
Service	egovframework.com.uss.olh.qna.service.EgovQnaManageService.java	Service interface for Q&A management
ServiceImpl	egovframework.com.uss.olh.qna.service.impl.EgovQnaManageServiceImpl.java	Service implementation class for Q&A management
VO	egovframework.com.uss.olh.qna.service.QnaManageVO.java	VO class for Q&A management
VO	egovframework.com.uss.olh.qna.service.QnaManageDefaultVO.java	SearchVO class for Q&A management
DAO	egovframework.com.uss.olh.qna.service.imp.QnaManageDAO.java	Data processing class for Q&A management
JSP	/WEB-INF/jsp/egovframework/com/uss/olh/qna/EgovQnaListInqire.jsp	List inquiry page for Q&A management
JSP	/WEB-INF/jsp/egovframework/com/uss/olh/qna/EgovQnaDetailInqire.jsp	Detailed inquiry page for Q&A management
JSP	/WEB-INF/jsp/egovframework/com/uss/olh/qna/EgovQnaCnRegist.jsp	Registration page for Q&A management
JSP	/WEB-INF/jsp/egovframework/com/uss/olh/qna/EgovQnaCnUpdt.jsp	Modification page for Q&A management
JSP	/WEB-	Reply list

	INF/jsp/egovframework/com/uss/olh/qna/EgovQnaAnswerListInqire.jsp	inquiry page for Q&A management
JSP	/WEB-INF/jsp/egovframework/com/uss/olh/qna/EgovQnaAnswerDetailInqire.jsp	Reply detailed inquiry page for Q&A management
JSP	/WEB-INF/jsp/egovframework/com/uss/olh/qna/EgovQnaCnAnswerRegist.jsp	Reply registration page for Q&A management
JSP	/WEB-INF/jsp/egovframework/com/uss/olh/qna/EgovQnaCnAnswerUpdt.jsp	Reply modification page for Q&A management
Query XML	resources/egovframework/sqlmap/com/uss/olh/qna/EgovQnaManage_SQL_Mysql.xml	Query XML for MySQL for Q&A management (Inquiry, registration, modification, and deletion)
Query XML	resources/egovframework/sqlmap/com/uss/olh/qna/EgovQnaManage_SQL_Oracle.xml	Query XML for Oracle for Q&A management (Inquiry, registration, modification, and deletion)
Query XML	resources/egovframework/sqlmap/com/uss/olh/qna/EgovQnaManage_SQL_Tibero.xml	Query XML for Tibero for Q&A management (Inquiry, registration, modification, and deletion)
Query XML	resources/egovframework/sqlmap/com/uss/olh/qna/EgovQnaManage_SQL_Altibase.xml	Query XML for Altibase for Q&A management (Inquiry, registration, modification, and deletion)
Validator Rule XML	resources/egovframework/validator/validator-rules.xml	Validator Rule defined XML
Validator XML	resources/egovframework/validator/com/uss/olh/qna/EgovQnaManage.xml	Validator XML for Q&A management
Message properties	resources/egovframework/message/com/message-common_ko_KR.properties	Message properties for Q&A management

		Id generation
Idgen XML	resources/egovframework/spring/context-idgen.xml	Idgen XML for Q&A registration

Class Diagram

class CDD_QNA관리

«Controller» EgovQnaManageController

- beanValidator: DefaultBeanValidator
- cmmUseService: EgovCmmUseService
- ~ egovMessageSource: EgovMessageSource
- # log: Log = LogFactory.getL...
- # propertiesService: EgovPropertyService
- qnaManageService: EgovQnaManageService

+ deleteQnaCn(QnaManageVO, QnaManageDefaultVO) : String
+ EgovLeft(ModelMap) : String
+ EgovMain(ModelMap) : String
+ insertQnaCn(QnaManageDefaultVO, QnaManageVO, BindingResult, ModelMap) : String
+ insertQnaCnView(QnaManageDefaultVO, QnaManageVO, Model) : String
+ selectLoginRealnmChoice(QnaManageVO, QnaManageDefaultVO, Model) : String
+ selectPasswordConfirm(QnaManageVO, QnaManageDefaultVO, Model) : String
+ selectPasswordConfirmView(QnaManageVO, QnaManageDefaultVO, Model) : String
+ selectQnaAnswerList(QnaManageDefaultVO, ModelMap) : String
+ selectQnaAnswerListDetail(QnaManageVO, QnaManageDefaultVO, ModelMap) : String
+ selectQnaList(QnaManageDefaultVO, ModelMap) : String
+ selectQnaListDetail(String, QnaManageVO, QnaManageDefaultVO, ModelMap) : String
+ updateQnaCn(QnaManageDefaultVO, QnaManageVO, BindingResult) : String
+ updateQnaCnAnswer(QnaManageVO, QnaManageDefaultVO) : String
+ updateQnaCnAnswerView(QnaManageVO, QnaManageDefaultVO, ModelMap) : String
+ updateQnaCnView(QnaManageVO, QnaManageDefaultVO, ModelMap) : String
+ updateQnaInqireCo(QnaManageVO, QnaManageDefaultVO) : String

«Vo» QnaManageVO

- aemailAdres: String
- answerCn: String
- answerDe: String
- areaNo: String
- emailAdres: String
- emailAnswerAt: String
- emplyrNm: String
- endTelno: String
- frstRegisterId: String
- frstRegisterPnttm: String
- inqireCo: String
- lastUpdusrId: String
- lastUpdusrPnttm: String
- middleTelno: String
- offmTelno: String
- orgnztNm: String
- passwordConfirmAt: String
- qaId: String
- qestnCn: String
- qestnSj: String
- qnaProcessSttusCode: String
- qnaProcessSttusCodeNm: String
- serialVersionUID: long = 1L {readOnly}
- writngDe: String
- writngPassword: String
- wrterNm: String

+ getAemailAdres() : String
+ getAnswerCn() : String
+ getAnswerDe() : String
+ getAreaNo() : String
+ getEmailAdres() : String
+ getEmailAnswerAt() : String
+ getEmplyrNm() : String
+ getEndTelno() : String
+ getFrstRegisterId() : String
+ getFrstRegisterPnttm() : String
+ getInqireCo() : String
+ getLastUpdusrId() : String
+ getLastUpdusrPnttm() : String
+ getMiddleTelno() : String
+ getOffmTelno() : String
+ getOrgnztNm() : String
+ getPasswordConfirmAt() : String
+ getQaId() : String
+ getQestnCn() : String
+ getQestnSj() : String
+ getQnaProcessSttusCode() : String
+ getQnaProcessSttusCodeNm() : String
+ getWritngDe() : String
+ getWritngPassword() : String
+ getWrterNm() : String
+ setAemailAdres(String) : void
+ setAnswerCn(String) : void
+ setAnswerDe(String) : void
+ setAreaNo(String) : void
+ setEmailAdres(String) : void
+ setEmailAnswerAt(String) : void
+ setEmplyrNm(String) : void
+ setEndTelno(String) : void
+ setFrstRegisterId(String) : void
+ setFrstRegisterPnttm(String) : void
+ setInqireCo(String) : void
+ setLastUpdusrId(String) : void
+ setLastUpdusrPnttm(String) : void
+ setMiddleTelno(String) : void
+ setOffmTelno(String) : void
+ setOrgnztNm(String) : void
+ setPasswordConfirmAt(String) : void
+ setQaId(String) : void
+ setQestnCn(String) : void
+ setQestnSj(String) : void
+ setQnaProcessSttusCode(String) : void
+ setQnaProcessSttusCodeNm(String) : void
+ setWritngDe(String) : void
+ setWritngPassword(String) : void
+ setWrterNm(String) : void

-qnaManageService

«Service» EgovQnaManageService

+ deleteQnaCn(QnaManageVO) : void
+ insertQnaCn(QnaManageVO) : void
+ selectQnaAnswerList(QnaManageDefaultVO) : List
+ selectQnaAnswerListDetail(QnaManageVO) : QnaManageVO
+ selectQnaAnswerListTotCnt(QnaManageDefaultVO) : int
+ selectQnaList(QnaManageDefaultVO) : List
+ selectQnaListDetail(QnaManageVO) : QnaManageVO
+ selectQnaListTotCnt(QnaManageDefaultVO) : int
+ selectQnaPasswordConfirmCnt(QnaManageVO) : int
+ updateQnaCn(QnaManageVO) : void
+ updateQnaCnAnswer(QnaManageVO) : void
+ updateQnaInqireCo(QnaManageVO) : void

Serializable «Vo» QnaManageDefaultVO

- firstIndex: int = 1
- lastIndex: int = 1
- pageIndex: int = 1
- pageSize: int = 10
- pageUnit: int = 10
- recordCountPerPage: int = 10
- searchCondition: String = ""
- searchKeyword: String = ""
- searchUseYn: String = ""

+ getFirstIndex() : int
+ getLastIndex() : int
+ getPageIndex() : int
+ getPageSize() : int
+ getPageUnit() : int
+ getRecordCountPerPage() : int
+ getSearchCondition() : String
+ getSearchKeyword() : String
+ getSearchUseYn() : String
+ setFirstIndex(int) : void
+ setLastIndex(int) : void
+ setPageIndex(int) : void
+ setPageSize(int) : void
+ setPageUnit(int) : void
+ setRecordCountPerPage(int) : void
+ setSearchCondition(String) : void
+ setSearchKeyword(String) : void
+ setSearchUseYn(String) : void

«ServiceImpl» EgovQnaManageServiceImpl

- idgenService: EgovIdGnrService
- qnaManageDAO: QnaManageDAO

+ deleteQnaCn(QnaManageVO) : void
+ insertQnaCn(QnaManageVO) : void
+ selectQnaAnswerList(QnaManageDefaultVO) : List
+ selectQnaAnswerListDetail(QnaManageVO) : QnaManageVO
+ selectQnaAnswerListTotCnt(QnaManageDefaultVO) : int
+ selectQnaList(QnaManageDefaultVO) : List
+ selectQnaListDetail(QnaManageVO) : QnaManageVO
+ selectQnaListTotCnt(QnaManageDefaultVO) : int
+ selectQnaPasswordConfirmCnt(QnaManageVO) : int
+ updateQnaCn(QnaManageVO) : void
+ updateQnaCnAnswer(QnaManageVO) : void
+ updateQnaInqireCo(QnaManageVO) : void

-qnaManageDAO

«Dao» QnaManageDAO

+ deleteQnaCn(QnaManageVO) : void
+ insertQnaCn(QnaManageVO) : void
+ selectQnaAnswerList(QnaManageDefaultVO) : List
+ selectQnaAnswerListDetail(QnaManageVO) : QnaManageVO
+ selectQnaAnswerListTotCnt(QnaManageDefaultVO) : int
+ selectQnaList(QnaManageDefaultVO) : List
+ selectQnaListDetail(QnaManageVO) : QnaManageVO
+ selectQnaListTotCnt(QnaManageDefaultVO) : int
+ selectQnaPasswordConfirmCnt(QnaManageVO) : int
+ updateQnaCn(QnaManageVO) : void
+ updateQnaCnAnswer(QnaManageVO) : void
+ updateQnaInqireCo(QnaManageVO) : void

ID Generation

ID Generation related DDL & DML

- In order to utilize the ID Generation Service, **QA_ID** item shall be added to COMTECOPSEQ which is 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('QA_ID','0');
```

ID Generation Environment setup (context-idgen.xml)

```
<bean name="egovQnaManageIdGnrService"
        class="egovframework.rte.fdl.idgnr.impl.EgovTableIdGnrService"
        destroy-method="destroy">
        <property name="dataSource" ref="egov.dataSource" />
        <property name="strategy"    ref="qnaManageStrategy" />
        <property name="blockSize"        value="10"/>
        <property name="table"            value="COMTECOPSEQ"/>
        <property name="tableName"        value="QA_ID"/>
</bean>

<bean name="qnaManageStrategy"
        class="egovframework.rte.fdl.idgnr.impl.strategy.EgovIdGnrStrategyImpl">
        <property name="prefix" value="QA_" />
        <property name="cipers" value="17" />
        <property name="fillChar" value="0" />
</bean>
```

Related Table

Name of table	Name of table (English)	Remarks
QA information	COMTNQAINFO	Manage the question and reply.

Related functions

Q&A management function is largely classified into the functions of **Q&A list inquiry, Q&A detailed inquiry, Q&A contents registration,** and **Q&A contents modification** which are used by general user and the functions of **Q&A reply list inquiry, Q&A reply detailed inquiry,** and **Q&A contents reply modification** which are used by administrator.

Q&A list Inquiry

Business rule

List inquiry can be performed with inquiry condition, and Q&A can be registered by clicking the Register button and moving to the Q&A registration screen.

Related code

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
List inquiry	/uss/olh/qna/QnaListInqire.do	selectQnaList	"QnaManageDAO.selectQnaList",

		"QnaManageDAO.selectQnaListTotCnt"

Q&A 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 name of prepared person and Q&A subject.
In the case of changing the search range per page, change the pageUnit, pageSize of context-properties.xml file. (However, corresponding setup exerts influence to the overall common service functions.)

If login is not performed when clicking the Register button, the login or real name confirmation selection screen is activated.
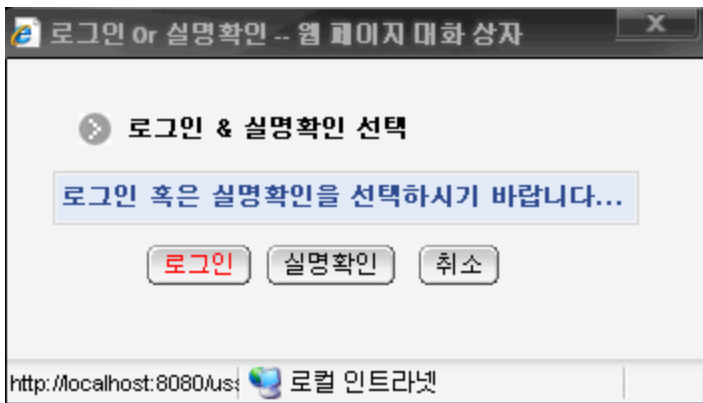
When selecting the login, the screen is activated as follows.
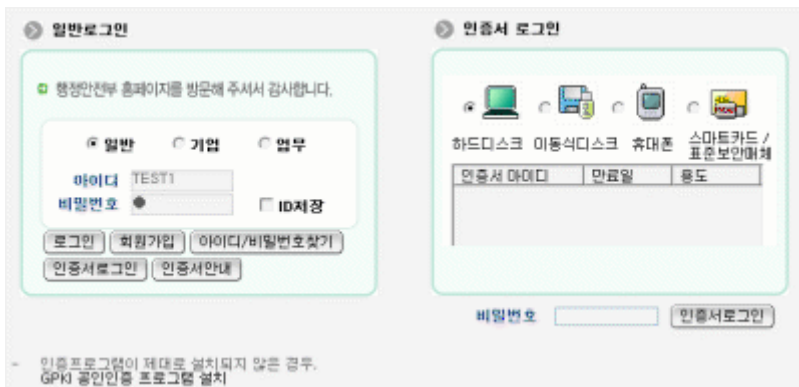
When selecting the real name confirmation, the screen as follows is activated.
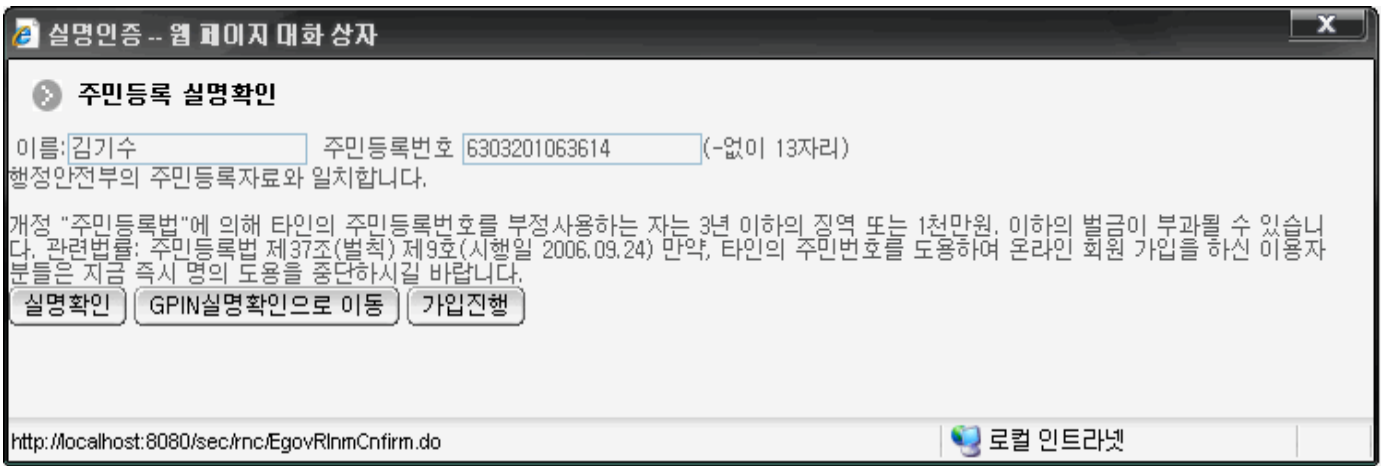
Inquiry: In order to inquire Q&A, select the search condition at the top, and click the Inquiry button after inputting the corresponding search character.

Register: In order to register Q&A, move to **Q&A registration** screen through the Register button at the top.

Click the List: It is moved to the **Q&A detailed inquiry** screen.

Q&A detailed inquiry

Business rule

This is the screen which is arrived when clicking the list at Q&A list inquiry, and it displays the detailed information for Q&A.

Related Code

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Detailed inquiry	/uss/olh/qna/QnaDetailInqire.do	selectQnaListDetail	"QnaManageDAO.selectQnaListDetail"
Deletion	/uss/olh/qna/QnaCnDelete.do	deleteQnaCn	"QnaManageDAO.deleteQnaCn"

From Q&A detailed inquiry screen, Q&A contents modification, Q&A contents deletion, and Q&A list inquiry can be conducted.

This is constituted in such a way that Q&A writing can be modified or deleted after confirming the password of preparation when clicking the Update and Delete buttons.

Update: When clicking the Update button, it is moved to the screen where Q&A can be revised.

Delete: When clicking the Delete button, deletion process can be conducted by displaying the message of confirming the state of deletion.

List: It is moved to **Q&A list inquiry** screen.

Q&A details registration

Business rule

Basic information for Q&A is inputted and saved. The red* mark at the right side of the name of input indicates the item which must be inputted without fail.

Related Code

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Registration screen	/uss/olh/qna/QnaCnRegistView.do	insertQnaCnView	
Registration	/uss/olh/qna/QnaCnRegist.do	insertQnaCn	"QnaManageDAO.insertQnaCn"

List: It is moved to **Q&A list inquiry** screen.

Save: Inputted Q&A information are saved.

Q&A contents modification

Business rule

Inputted Q&A information is saved. The red* mark at the right side of the name of input indicates the item which must be inputted during the modification.

Related Code

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Modification screen	/uss/olh/qna/QnaCnUpdtView.do	updateQnaCnView	"QnaManageDAO.selectQnaListDetail"

| Modification | /uss/olh/qna/QnaCnUpdt.do | updateQnaCn | "QnaManageDAO.updateQnaCn" |

Update: Inputted Q&A information with modification are saved.

List: It is moved to **Q&A list inquiry** screen.

Q&A reply list inquiry

Business rule

This is the function for managing the reply writing by administrator, and list inquiry can be conducted with inquiry condition, and Q&A can be registered by clicking the Register button and moving to the Q&A registration screen.

Related Code

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
List inquiry	/uss/olh/qnm/QnaAnswerListInqire.do	selectQnaAnswerList	"QnaManageDAO.selectQnaAnswerList",
			"QnaManageDAO.selectQnaAnswerListTotCnt"

Q&A 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 name of prepared person and state of progress.
In the case of changing the search range per page, the pageUnit, pageSize of context-properties.xml

file are changed. (However, corresponding setup exerts influence to the overall common service functions.)

Inquiry: In order to inquire Q&A, select the search condition at the top, and click the Inquiry button after inputting the corresponding search character.

List click: It is moved to the **Q&A detailed inquiry** screen.

Q&A reply detailed inquiry

Business rule

Information of prepared person and reply contents detailed information are displayed by administrator.

Related Code

N/A

Screen and execution manual

Action	URL	Controller method	QueryID
Detailed inquiry	/uss/olh/qnm/QnaAnswerDetailInqire.do	selectQnaAnswerListDetail	"QnaManageDAO.selectQnaListDetail"

From Q&A reply detailed inquiry screen, Q&A contents reply modification, and Q&A reply list inquiry can be conducted.

Q&A답변상세조회

작성자명	박정규
전화	011-212-1222
이메일	freehows@google.co.kr ☐ 이메일답변여부
작성일자	2009-04-07
조회횟수	20
진행처리상태	완료
질문제목	공문서 관리에 관하여
질문내용	너무나 많은 문서로 인한 어려움이 많습니다..
답변내용	공사의 어려움
담당부서	문화체육과
답변일자	2009-04-29
답변자	박상수
전화번호	
이메일	egov@mopas.go.kr

[수정] [목록]

Update: When clicking the Update button, it is moved to the screen where Q&A can be revised.

Delete: When clicking the Delete button, deletion process can be conducted by displaying the message of confirming the state of deletion.

List: It is moved to **Q&A reply list inquiry** screen.

Q&A contents reply modification

Business rule

Inputted Q&A information is saved. This is constituted in such a way that information of prepared person can be referred to only, and only the reply contents at the bottom can be inputted.

Related Code

The codes used at Q&A management and the reflecting items of the setup values in accordance with them are as follows.

Classification of code	Name of code classification	Code ID	Code name
COM028	Question reply processing state	1	Standby for reception
COM028	Question reply processing state	2	Reception
COM028	Question reply processing state	3	Completion

Question reply processing state codes can be used by adding them.

Screen and execution manual

Action	URL	Controller method	QueryID
Modification screen	/uss/olh/qnm/QnaCnAnswerUpdtView.d	updateQnaCnAnswerView	
Modification	/uss/olh/qnm/QnaCnAnswerUpdt.do	updateQnaCnAnswer	"QnaManageDAO.updateQnaCnAnswer"

Update: Inputted Q&A information with modification are saved.

List: It is moved to **Q&A list inquiry** screen.