MES – Global IT Department

MES Standard Model

Dev. Guide

posco
포스코ICT

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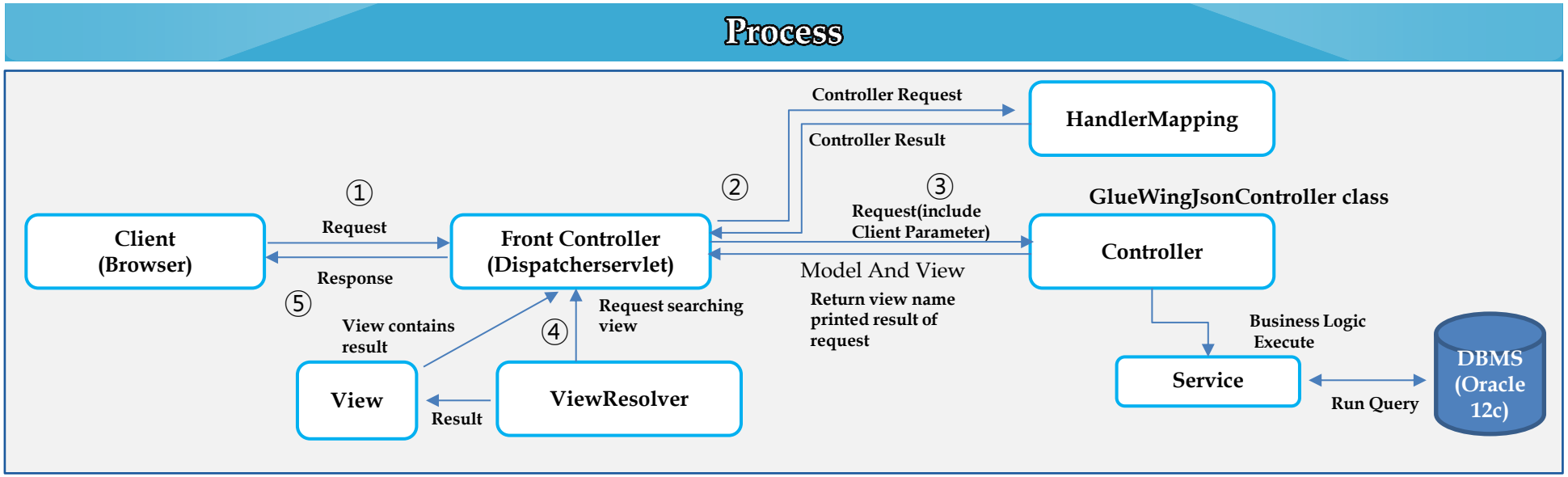
1. System Process Flow

■ Process Flow



【 Component 】

- **DispatcherServlet** :
  Front Controller (Object created/managed by servlet container)
- **HandlerMapping** :
  Search container for handling client request
- **Controller** : process controller for client request
- **ModelAndView** : storage object for response view and parameter sending to view
- **ViewResolver** :Searching view
- **View** : Handling Response Logic

【 Process】

① DispatcherServlet receipt request from client.
② DispatcherServlet request controller to HandlerMapping.
③ DispatcherServlet send request to controller, it return result after handling request.
Create ModelAndView and return to DispatcherServlet.
④ ModelAndView request view to ViewResolver.
⑤ Display result with result information.

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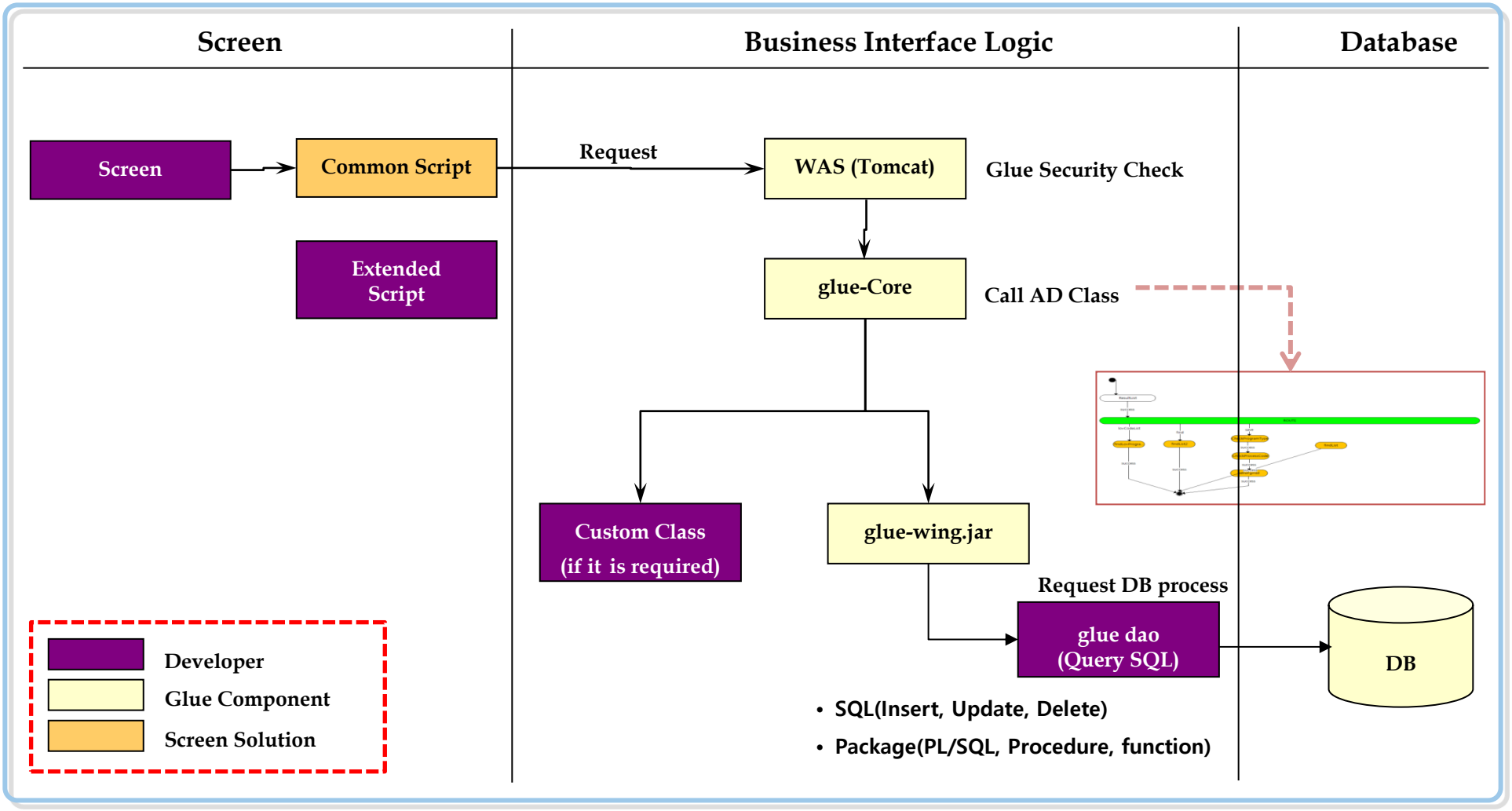
1. System Process Flow

■ Data Inquiry (Screen → DB)



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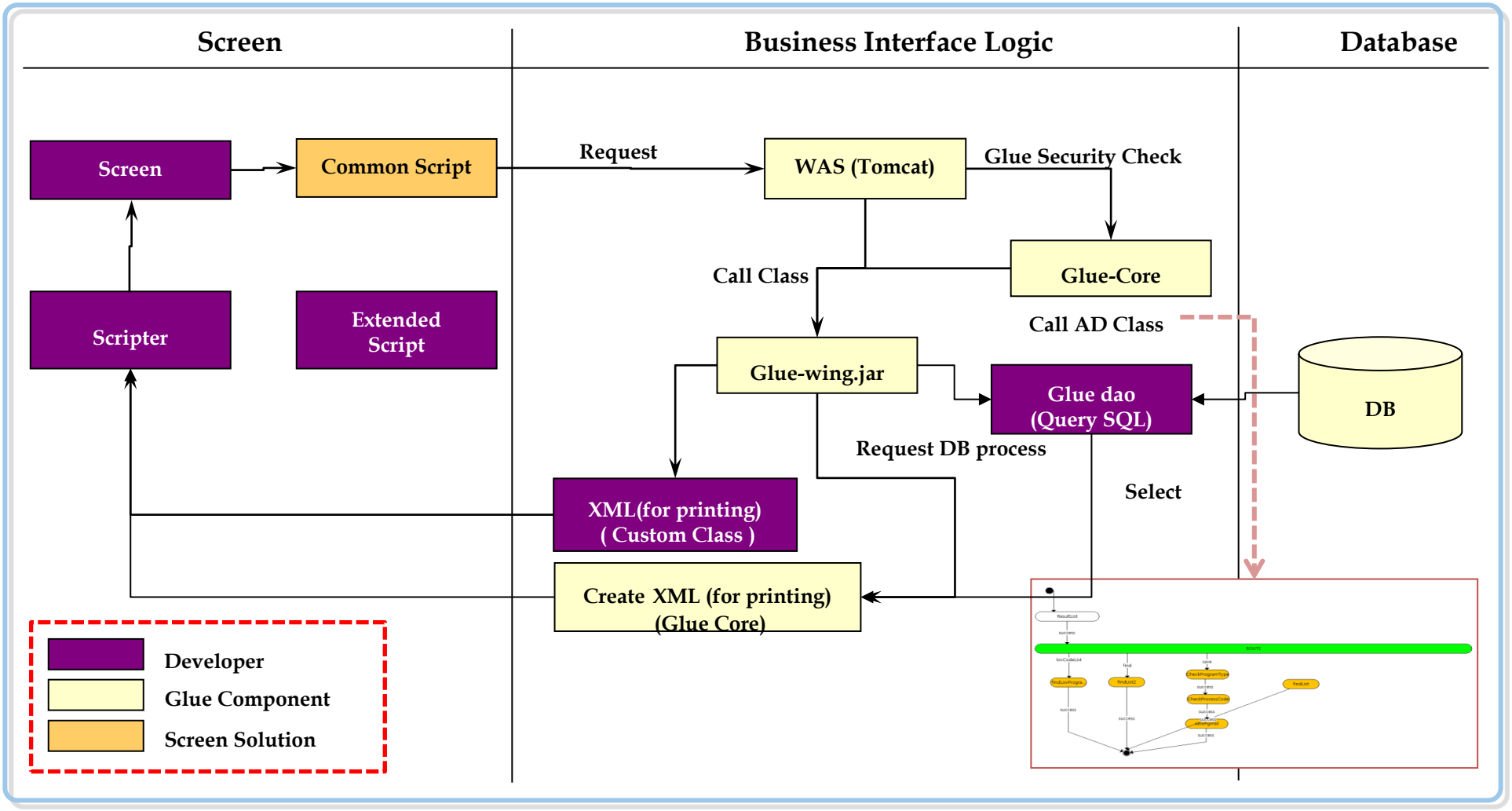
1. System Process Flow

■ Data Inquiry (DB → Screen)



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2. Server Development Guide - Project

■ Project

System	Process	Module	Description
SCM	销产计划	SMP	Steelpia Sales & Master Planning
	订单管理	SSD	Steelpia Sales & Distribution
	进程管理	SPG	Steelpia Progress Management
	质量设计/管理	SQM	Steelpia Quality Management
	工序计划/生产管控	SCH	Steelpia Scheduling
MES	铁水管控	SIM	Steelpia Iron Making
	炼钢作业	SMS	Steelpia Steel Making Shop
	热轧作业	SHR	Steelpia Hot Rolling
	冷轧作业	SCR	Steelpia Cold Rolling
	厚板作业	SPR	Steelpia Plate Rolling
	순환품	SRS	Steelpia Roll Shop
	厂内运输	SIT	Steelpia Internal Transportation
	仓库管理/出货管理	SYD	Steelpia Yard & Dispatch
System Common	共同	SCO	Steelpia Common

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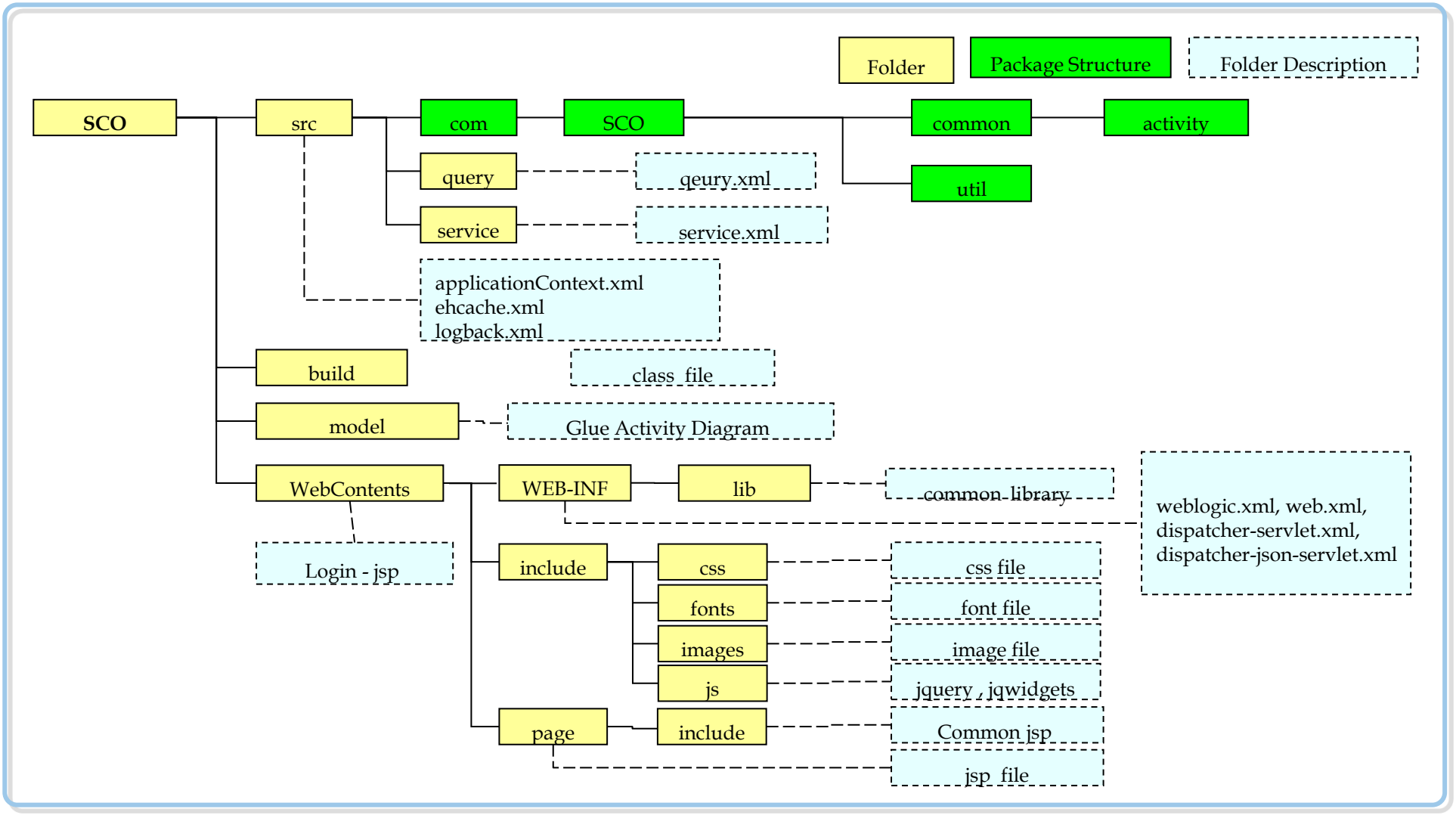
■ SCO Project Structure



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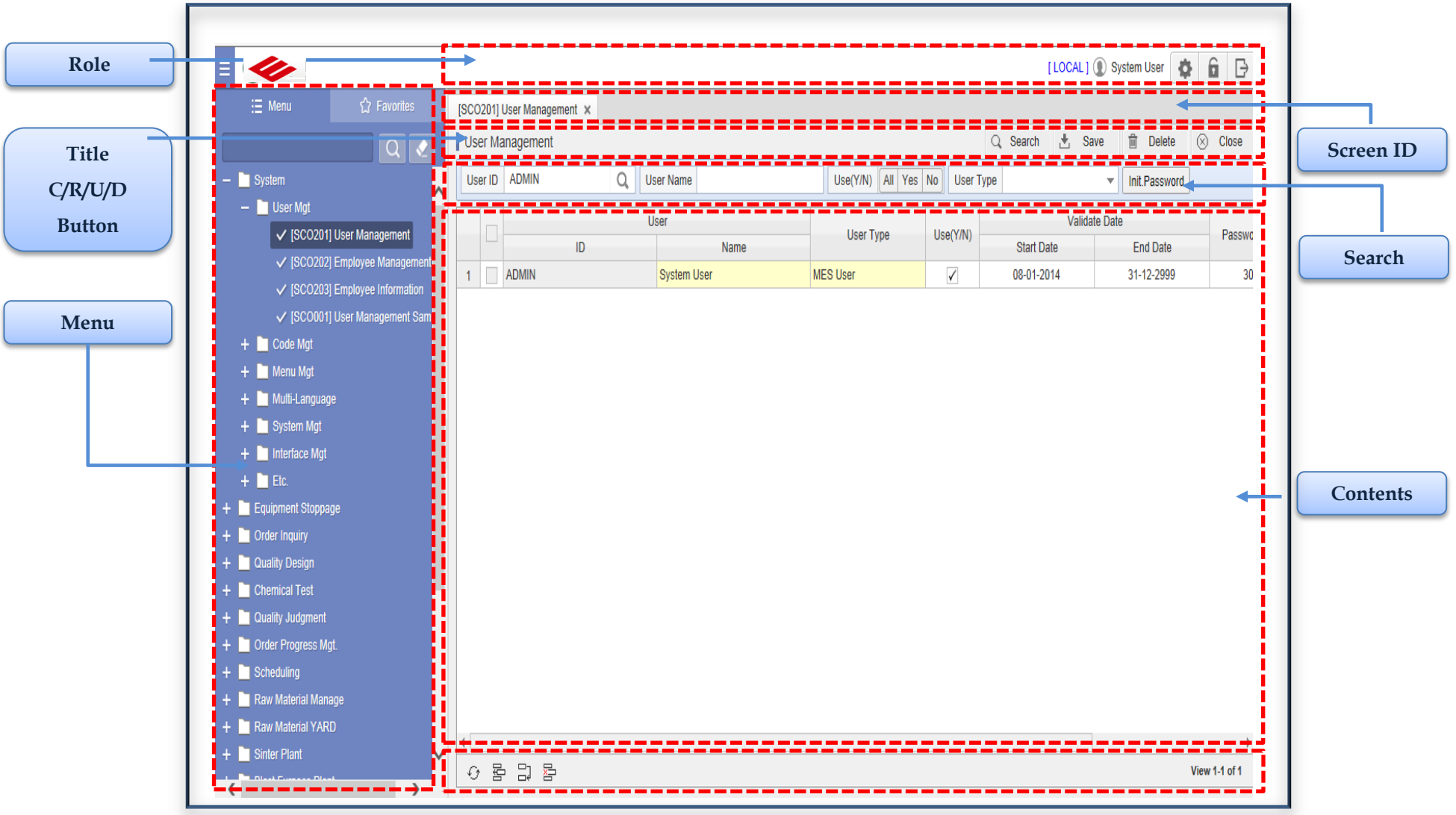
3. Screen – Main Screen

■ Main Screen Layout



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3. Screen – JSP Source

■ Screen Source Structure

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html> <head>
<meta http-equiv="content-type" content="text/html;charset=utf-8" />
<%@ include file="./include/include.jsp"%>

<title>User Management</title>

<script type="text/javascript" src="./include/js/jquery/jquery.crypt.js"></script>
<script type="text/javascript">
//********** Declare public variable **********/

//********** Function Ready Section **********/
  $(document).ready(function () {
                        f_initSreen();
                        f_initSearchForm();
                        f_initContents();
    f_lastProc();
  });

//*********** Initialize Search Section **********/
// ********** Initialize Search Condition Section **********/
// ********** Initialize Contents  Condition Section **********/
// ********** Last Process Job **********/

// ********** Popup Event Section **********/    -
// ********** Screen Button Event Section **********/

// ********** User Defined Function Section  **********/
</script>
</head>
<body>
      <div id="divContainer">
            <div id="divTitle“> <%@ include file="./include/includeTitle.jsp" %> </div>
            <div id="divSearchCondition"></div>
            <div id="divContents“>
                  <div id="divUser"></div>
            </div>
      </div>
      <div id="divMessage“> <%@ include file="./include/includeMessage.jsp" %> </div>
</body></html>
```

Include

Title

Script

Layout

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3. Screen – JSP Source: Include

■ Screen Source Structure: Include Area

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html> <head>
<meta http-equiv="content-type" content="text/html;charset=utf-8" />
<%@ include file="./include/include.jsp"%>

<title>User Management</title>

<script type="text/javascript" src="./include/js/jquery/jquery.crypt.js"></script>
<script type="text/javascript">
//********** Declare public variable **********/

//********** Function Ready Section **********/
   $(document).ready(function () {
                        f_initSreen();
                        f_initSearchForm();
                        f_initContents();
      f_lastProc();
   });

//*********** Initialize Search Section **********/
// ********** Initialize Search Condition Section **********/
// ********** Initialize Contents  Condition Section **********/
// ********** Last Process Job **********/

// ********** Popup Event Section **********/    -
// ********** Screen Button Event Section **********/

// ********** User Defined Function Section  **********/
</script>
</head>
<body>
      <div id="divContainer">
            <div id="divTitle“> <%@ include file="./include/includeTitle.jsp" %> </div>
            <div id="divSearchCondition"></div>
            <div id="divContents“>
                  <div id="divUser"></div>
            </div>
      </div>
      <div id="divMessage“> <%@ include file="./include/includeMessage.jsp" %> </div>
</body> </html>
```

Include

1. Include file list
   - jqWing
   - jQuery
   - Grid
   - tree
   - POSCO ICT Reuse
   - etc script

2. Request for adding if it is required

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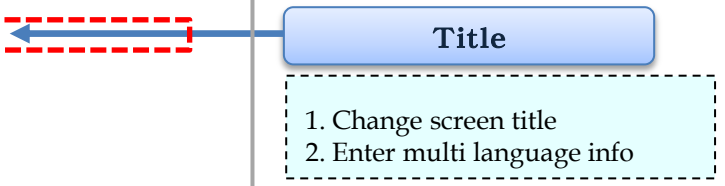
3. Screen – JSP Source: Title

■ Screen Source Structure: Title Area

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html> <head>
<meta http-equiv="content-type" content="text/html;charset=utf-8" />
<%@ include file="./include/include.jsp"%>

<title>User Management</title>

<script type="text/javascript" src="./include/js/jquery/jquery.crypt.js"></script>
<script type="text/javascript">
//********** Declare public variable **********/

//********** Function Ready Section **********/
   $(document).ready(function () {
                        f_initSreen();
                        f_initSearchForm();
                        f_initContents();
      f_lastProc();
   });

//********** Initialize Search Section **********/
// ********** Initialize Search Condition Section **********/
// ********** Initialize Contents  Condition Section **********/
// ********** Last Process Job **********/

// ********** Popup Event Section **********/    -
// ********** Screen Button Event Section **********/

// ********** User Defined Function Section  **********/
</script>
</head>
<body>
      <div id="divContainer">
            <div id="divTitle“> <%@ include file="./include/includeTitle.jsp" %> </div>
            <div id="divSearchCondition"></div>
            <div id="divContents“>
                  <div id="divUser"></div>
            </div>
      </div>
      <div id="divMessage“> <%@ include file="./include/includeMessage.jsp" %> </div>
</body> </html>
```



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3. Screen – JSP Source: Script

■ Screen Source Structure: Script Area

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html> <head>
<meta http-equiv="content-type" content="text/html;charset=utf-8" />
<%@ include file="./include/include.jsp"%>

<title>User Management</title>

<script type="text/javascript" src="./include/js/jquery/jquery.crypt.js"></script>
<script type="text/javascript">
//********** Declare public variable **********/

//********** Function Ready Section **********/
  $(document).ready(function () {
                        f_initSreen();
                        f_initSearchForm();
                        f_initContents();
     f_lastProc();
  });

//*********** Initialize Search Section **********/
// ********** Initialize Search Condition Section **********/
// ********** Initialize Contents  Condition Section **********/
// ********** Last Process Job **********/

// ********** Popup Event Section **********/    -
// ********** Screen Button Event Section **********/

// ********** User Defined Function Section  **********/
</script>
</head>
<body>
      <div id="divContainer">
            <div id="divTitle“> <%@ include file="./include/includeTitle.jsp" %> </div>
            <div id="divSearchCondition"></div>
            <div id="divContents“>
                  <div id="divUser"></div>
            </div>
      </div>
      <div id="divMessage“> <%@ include file="./include/includeMessage.jsp" %> </div>
</body> </html>
```

Script

For encryption using crypt-js

[Keep standard coding template]

1. Declare global variable section
2. Ready section(Screen loading)
   - Initialize screen variable
   - Initialize search item
   - Initialize Contents item
   - define functions before screen activate

Screen event : Popup, Button

User defined function section

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3. Screen – JSP Source: Layout

■ Screen Source Structure: Layout Area

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html> <head>
<meta http-equiv="content-type" content="text/html;charset=utf-8" />
<%@ include file="./include/include.jsp"%>

<title>User Management</title>

<script type="text/javascript" src="./include/js/jquery/jquery.crypt.js"></script>
<script type="text/javascript">
//********** Declare public variable **********/

//********** Function Ready Section **********/
   $(document).ready(function () {
                        f_initSreen();
                        f_initSearchForm();
                        f_initContents();
      f_lastProc();
   });

//*********** Initialize Search Section **********/
// ********** Initialize Search Condition Section **********/
// ********** Initialize Contents  Condition Section **********/
// ********** Last Process Job **********/

// ********** Popup Event Section **********/    -
// ********** Screen Button Event Section **********/

// ********** User Defined Function Section  **********/
</script>
</head>
<body>
      <div id="divContainer">
            <div id="divTitle“> <%@ include file="./include/includeTitle.jsp" %> </div>
            <div id="divSearchCondition"></div>
            <div id="divContents“>
                  <div id="divUser"></div>
            </div>
      </div>
      <div id="divMessage“> <%@ include file="./include/includeMessage.jsp" %> </div>
</body></html>
```

Layout

[Keep standard coding template]

1. Not change Layout & id

```
<div id="divContainer">
    <div id="divTitle"> </div>
    <div id="divSearchCondition"></div>
    <div id="divContents“>
                User Contents Section
    </div>
</div>
<div id="divMessage"> </div>
```

2. Add as below to create contents

```
<div id="divContainer">
    <div id="divTitle"> </div>
    <div id="divSearchCondition"></div>
    <div id="divContents">
        <div id="divUser"></div>
    </div>
</div>
<div id="divMessage"> </div>
```


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4. Create Simple Screen

Check Table Exist

■ Development Sequence

Sequence	*Contents*
Create AD(Activity Diagram)	✓ Activity Setting (Class, dao, sql-key, result-key) ✓ Generate Service , Transaction Setting
Create SQL, Package	✓ Create SQL(insert, update, delete) ✓ Create Package (Procedure, Function)
Create JSP Screen	✓ Create JSP Screen ✓ Search & Contents Item Register
Menu Register	✓ Create Menu (Screen/Menu -> Menu Mapping-> Multi Language)

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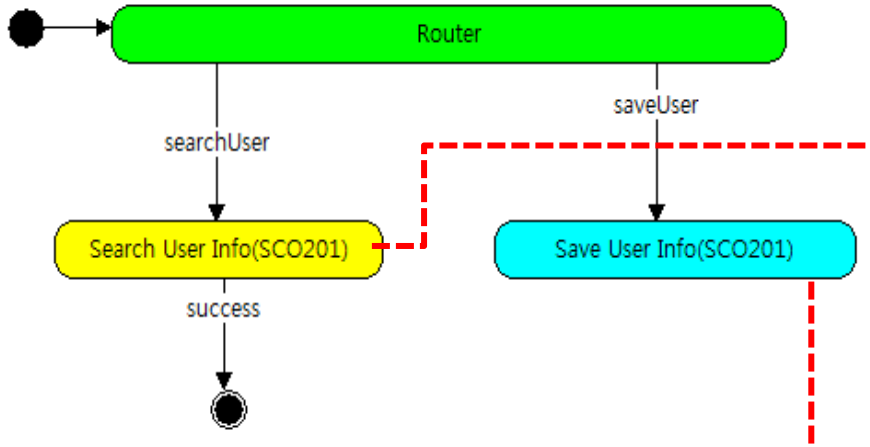
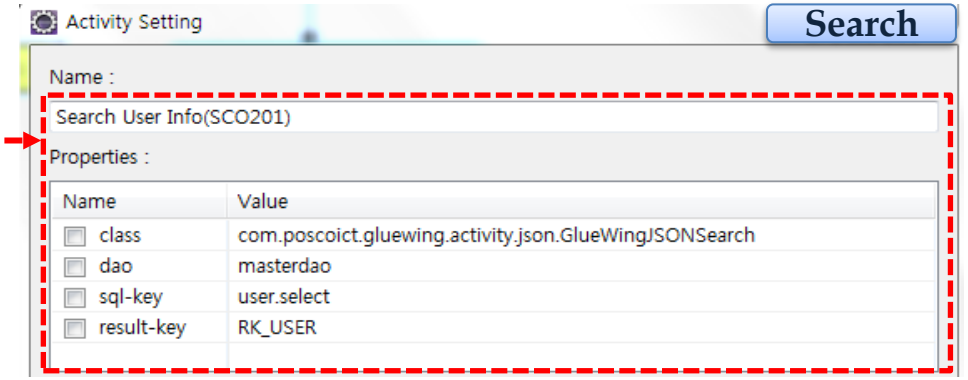
4.1 Eclipse - AD (Search, Save)

■ Create AD(Active Diagram) (1/3)

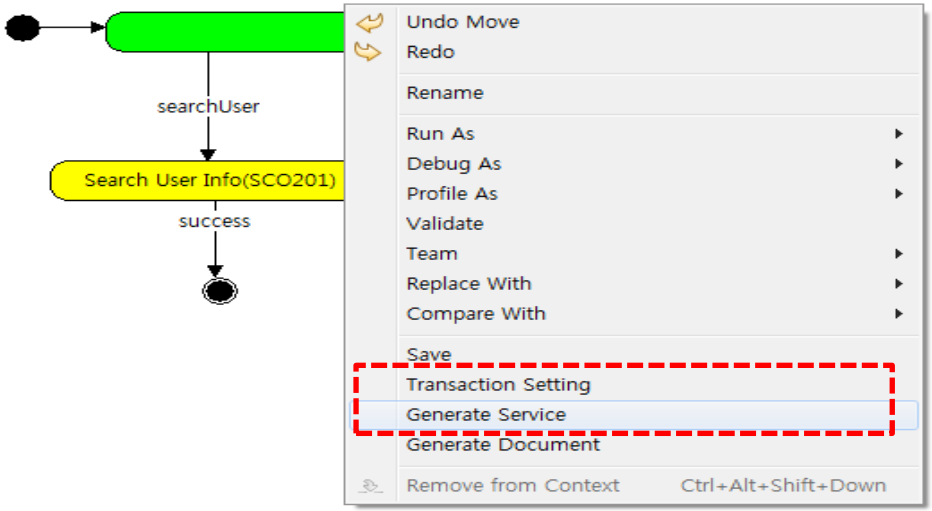


■ Activity Setting (2/3)

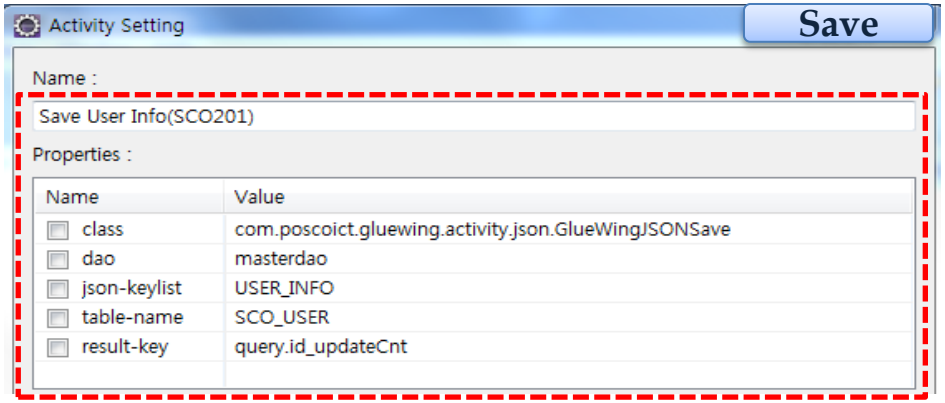


Need Change: sql-key, result-key

■ Create Service, Transaction Setting (3/3)



■ Activity Setting (2/3)



Need Change: json-key, table-name

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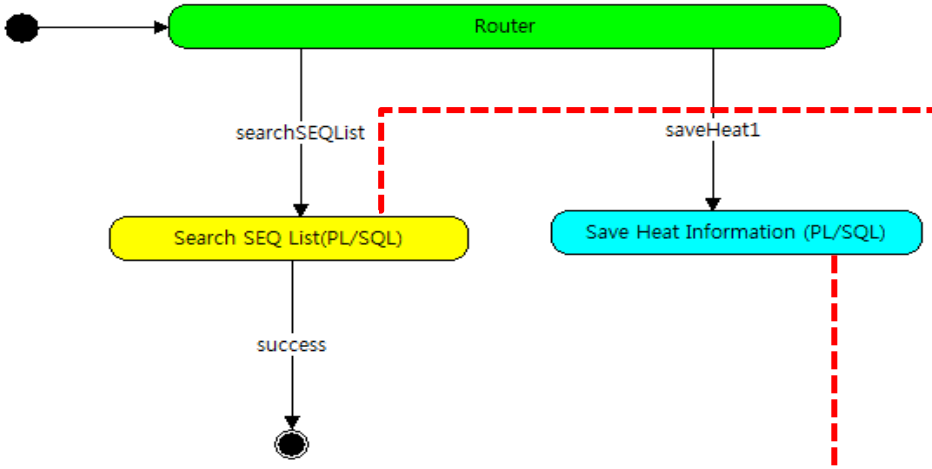
4.1 Eclipse - AD (Oracle Package)

■ Create AD(Active Diagram) (1/3)



■ Activity Setting (2/3)

Name : **Search**

Search SEQ List(PL/SQL)

Properties :

Name	Value
class	com.poscoict.gluewing.activity.json.GlueWingJSONOracleCursor
dao	mesdao
procedure-name	BSCH_PLAN_SEARCH.P_SEARCH_SEQ_LIST
result-key	RK_SEQ_LIST

Need Change: procedure-name

Name : **Save**

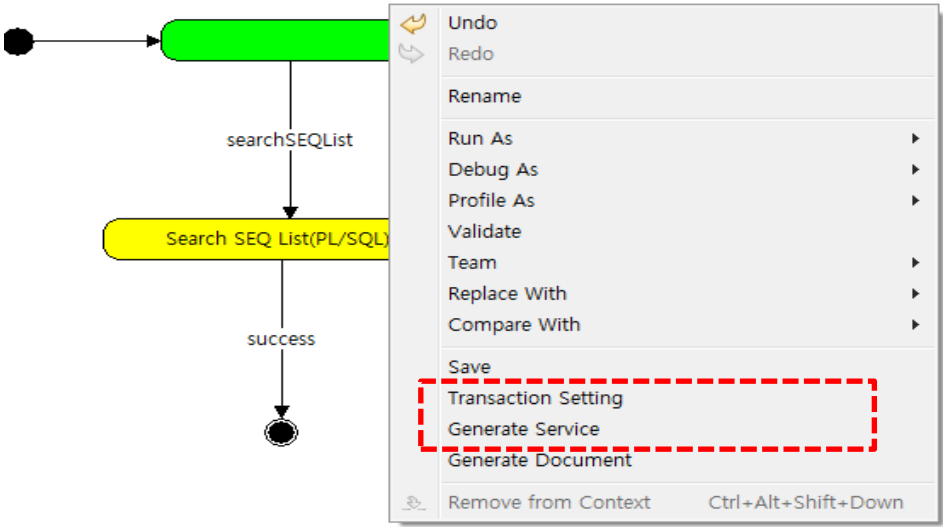
Save Heat Information (PL/SQL)

Properties :

Name	Value
class	com.poscoict.gluewing.activity.json.GlueWingJSONOracleProcedure
dao	mesdao
json-keylist	GRID_INFO
procedure-name	BSCH_PLAN_ADJUST.P_SAVE_HEAT_INFO1
result-key	rowCnt

Need Change: json-keylist, procedure-name

■ Create Service, Transaction Setting (3/3)



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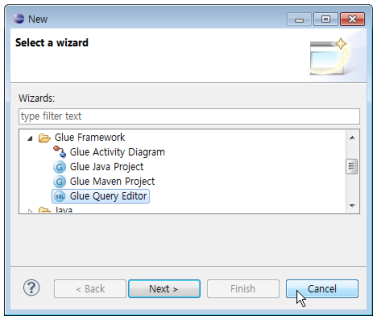
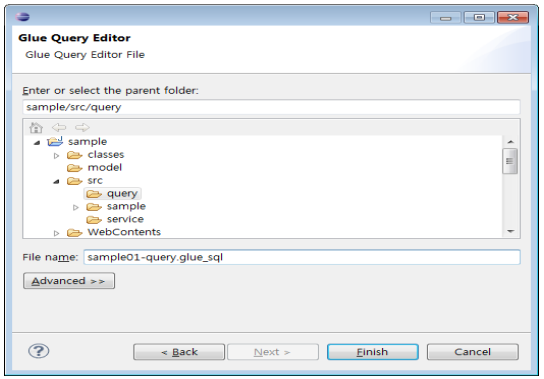
4.2 Eclipse – Query File

■ Create Query Editor (1/4)

- File > New > Other > Glue Framework > Glue Query Editor



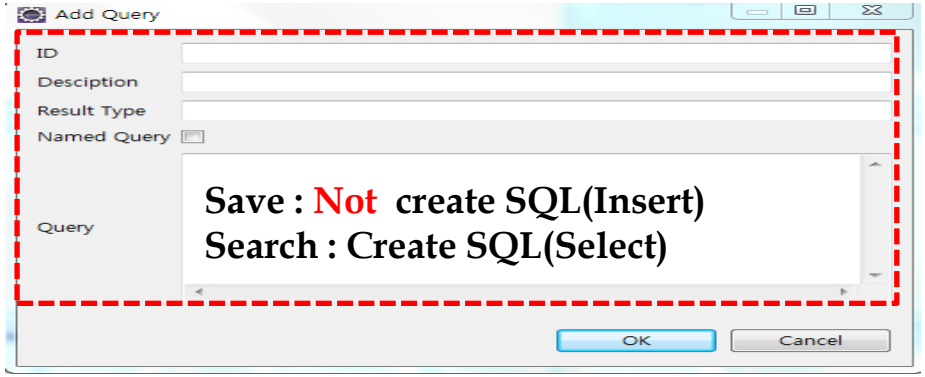


■ Context of Glue Query Editor (2/4)

- **Query Map**
  - desc : describe query contents
- **Query**
  - **id:** should be unique in project
  - **desc:** description
  - **return type:** aaaa
  - **isNamed :**
    true) binding parameter **:name**
    false) binding parameter: **?**

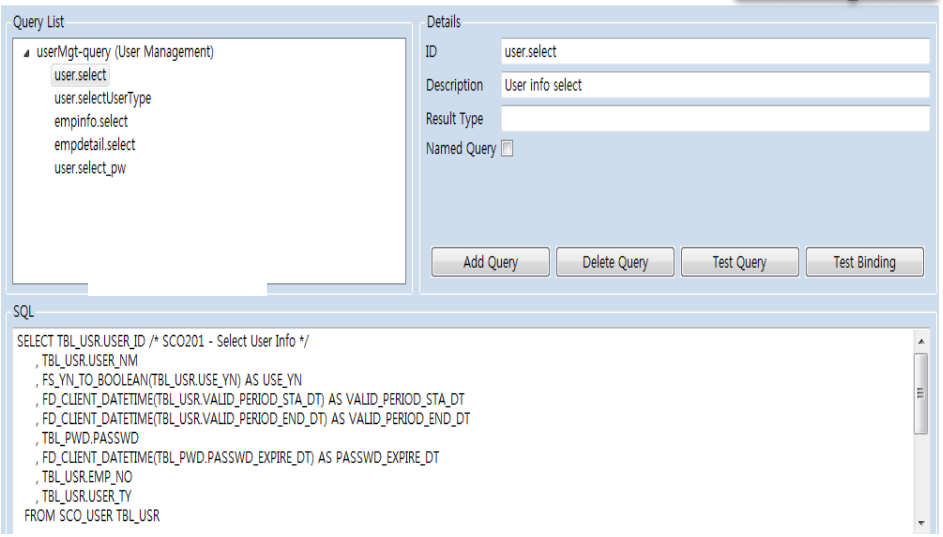
■ Create Query Editor (1/3)

- Example : query id="user.select" desc="User info select" resultType=""



■ SQL Statement (4/4)

Sample



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4.3 Eclipse – PL/SQL

■ Create Package - Spec (1/2)

```
CREATE OR REPLACE PACKAGE MESAPUSER.BSCH_PLAN_SEARCH AS
TYPE V_CUR IS REF CURSOR;
/*****************************************************************
 * PROGRAM HEADER
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 * ----------------------------------------------------------
 * System Name      - MES SYSTEM
 * Sub_System Name  - SCH MODULE
 * Program Name     - BSCH_PLAN_SEARCH
 * Description      - Scheduling Common Select Query Package for UI(SCH000,,,,,,)
 *****************************************************************/

   --*************************************************************
   -- MAIN SEARCH FOR SEQ List - SCH004
   --*************************************************************
   PROCEDURE PR_SEARCH_SEQ_LIST(
          P_CUR         OUT  V_CUR
         );

   --*************************************************************
   -- MAIN SEARCH FOR SEQ List - SCH006
   --*************************************************************
   PROCEDURE PR_SEARCH_SEQ_LIST2(
          P_PLAN_DT_FROM  IN   VARCHAR
         ,P_PLAN_DT_TO    IN   VARCHAR
         ,P_ORDER_BY      IN   VARCHAR
         ,P_FINISH_TY     IN   VARCHAR
         ,P_CUR           OUT  V_CUR
         );
END BSCH_PLAN_SEARCH;
/
```

Sample

■ Create Package – Body (2/2)

```
CREATE OR REPLACE PACKAGE BODY MESAPUSER.BSCH_PLAN_SEARCH
AS
/*****************************************************************
 * PROGRAM HEADER
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 * ----------------------------------------------------------
 * System Name      - MES SYSTEM
 * Sub_System Name  - SCH MODULE
 * Program Name     - BSCH_PLAN_SEARCH
 * Description      - Scheduling Common Select Query Package for UI(SCH000,,,,,,)
 *****************************************************************/
   --*************************************************************
   -- MAIN SEARCH FOR SEQ List - SCH004
   --*************************************************************
   PROCEDURE PR_SEARCH_SEQ_LIST(
          P_CUR         OUT  V_CUR
         ) IS
   BEGIN

      OPEN P_CUR FOR
         SELECT *
           FROM   (SELECT SEQ_NO
                     ,SEQ_NO ORI_SEQ_NO
                     ,COUNT(PLAN_HEAT_NO) HEAT_TOT_CNT
                     ,SUM(CASE WHEN PLAN_HEAT_STS IN ('A1','A2') THEN 1
ELSE 0 END)       AS HEAT_IN_SCH_CNT
                     ,SUM(CASE WHEN PLAN_HEAT_STS IN ('A3','A4','A5') THEN 1
ELSE 0 END)   AS HEAT_IN_PROC_CNT                    )
            WHERE HEAT_FINISH_CNT != HEAT_TOT_CNT
            ORDER BY SEQ_NO;
      RETURN;

   END P_SEARCH_SEQ_LIST;
END BSCH_PLAN_SEARCH;
/
```

Sample

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4.4 Eclipse – JSP

■ Only modify “red part”

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html> <head>
<meta http-equiv="content-type" content="text/html;charset=utf-8" />
<%@ include file="./include/include.jsp"%>

<title>Title</title>

<script type="text/javascript"
src="./include/js/jquery/jquery.crypt.js"></script>
<script type="text/javascript">
//********** Declare public variable **********/
   var gridUser;

//********** Function Ready Section **********/
   $(document).ready(function () {
                        f_initSreen();
                        f_initSearchForm();
                        f_initContents();
                       f_lastProc();
   });
//********** Initialize Search Section **********/
  function f_initSreen() {
      serviceName = ‘service-name';
  };
// ********** Initialize Search Condition Section **********/
 f unction f_initSearchForm() {
 fc_makeSearch( '', 'USER_INFO', '' );

// ********** Initialize Contents Condition Section **********/
 gridUser   = fc_makeGrid( 'divUser', 'insert', 'USER_INFO', '', false );
 gridUserId = gridUser.getGridId();

// ********** Last Process Job **********/
```

```
// ********** Screen Button Event Section **********/
 function f_search() {
   fc_addParamForm( 'divSearchCondition' );
   fc_searchGrid( [ { gridId: gridUserId, resultKey: 'RK_USER' } ], serviceName,
'searchUser' );
 };
 function f_save() {
   if( !f_beforeSave() ) return;
   fc_saveGrid(   [ gridUserId ], '', serviceName, 'saveUser', '', 'Y', 'Y' );
 };

</script>
</head>
<body>
        <div id="divContainer">
              <div id="divTitle“> <%@ include file="./include/includeTitle.jsp" %>
</div>
              <div id="divSearchCondition"></div>
              <div id="divContents“>
                    <div id="divUser"></div>
              </div>
        </div>
        <div id="divMessage“> <%@ include
file="./include/includeMessage.jsp" %> </div>
</body> </html>
```


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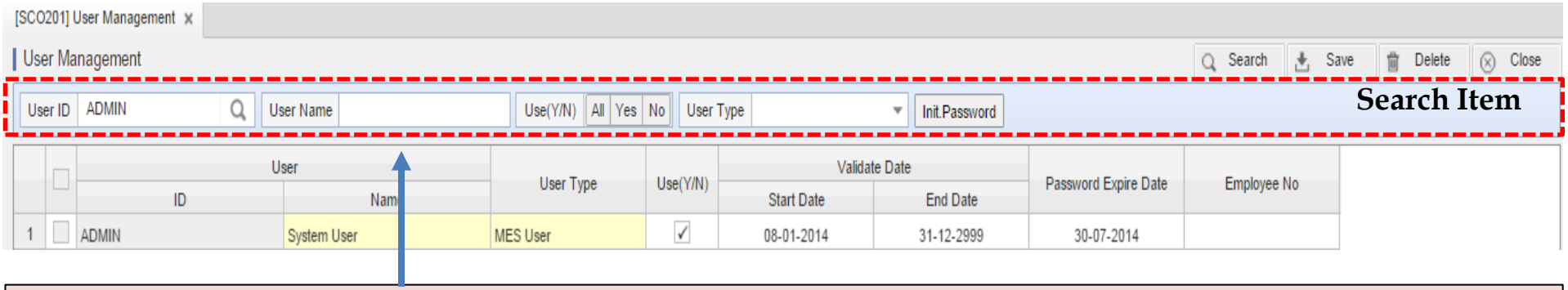
4.4 Eclipse – JSP: Search Condition




```
/************************************************************
*********************    Define Search Items   *********************
************************************************************/
function fc_getSearchItems( sKey, sSubKey, attribute1, attribute2 ) {
objItems = null;
objGrpItems = null;

switch ( sKey ) {
        case 'USER_INFO' : // SCO201, SCO242, SCO224
            objItems = [
                    {groupname: 'divSearch1', caption: 'User ID'  , name: 'USER_ID', width: 170, datatype: 'popup', uppercase: true },
                     {groupname: 'divSearch1', caption: 'User Name', name: 'USER_NM', width: 150, datatype: 'text'},
                    {groupname: 'divSearch1', caption: 'Use Yes/No', name: 'USER_YN', width: 150, datatype: 'radio', itemCd: 'USE_YN'},
                    {groupname: 'divSearch1', caption: 'User Type', name: 'USER_TY', width: 150, datatype: 'lov'}
                     ];

if ( fc_isNull( sSubKey ) ) {// SCO201
            objItems.push( {groupname: 'divSearch1', caption: 'Init.Password', name: 'INIT_PWD_BTN', width: 150, datatype: 'button', itemCd: 'CAP_INIT_PWD_BTN'} );
        }
        else if ( sSubKey == 'NOT_INCLUDE_USE_YN' ) {
            objItems.splice(2,2);
        }
        else if ( sSubKey == 'MAP' ) {
            objItems.push( {groupname: 'divSearch1', caption: 'Menu Information (Exclusion)', name: 'MNU_MAPPED_EX', itemCd: 'CAP_MNU_INFO_EX', width: 150, datatype: 'radio'} );
        }
break;
};
};
```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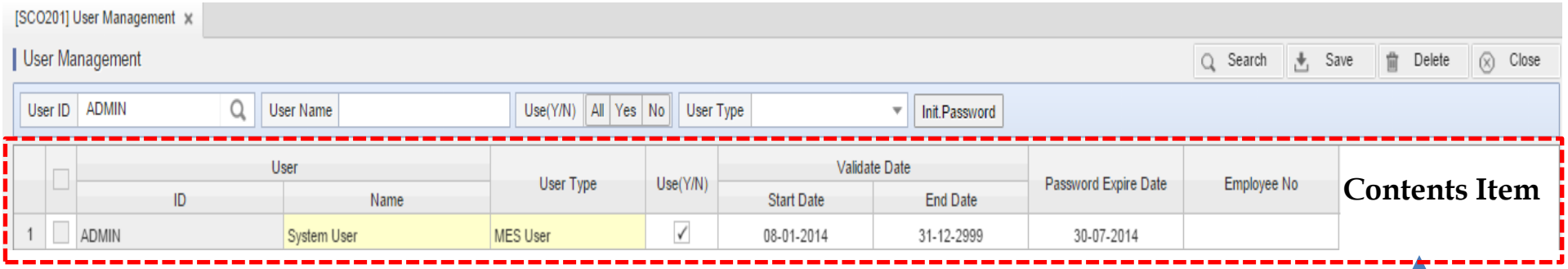
4.4 Eclipse – JSP: Contents Item




```
function fc_getGridItems( sKey, sSubKey, caption_flag, attribute1, attribute2 ) {
objItems    = null; objGrpItems = null; gridId      = '';  gridKey     = sKey; var sCaption = '', sItemCd = '';

switch ( sKey ) {
              case 'USER_INFO':
              gridId = 'gridUser';
              if ( caption_flag ) {
              sCaption = 'User Information';
              sItemCd  = 'CAP_USER_INFO';
              };
objGrpItems = [
        {caption: 'User', name:'USER_ID_GRP', align:'center',itemCd: 'CAP_USER' },
        {caption: 'Validate Date', name:'VALID_PERIOD_DT_GRP', align:'center',itemCd: 'CAP_VALID'}
       ];
objItems = [
  {caption: 'ID', name: 'USER_ID' , width: 200, datatype: 'text', itemCd: 'CAP_ID', group:'USER_ID_GRP' },
        {caption: 'Name', name: 'USER_NM' , width: 200, datatype: 'text', itemCd: 'CAP_NM', group:'USER_ID_GRP' },
        {caption: 'User Type', name: 'USER_TY' , width: 150, datatype: 'lov' },
        {caption: 'Use ?', name: 'USE_YN' , width:  70, datatype: 'checkbox'},
        {caption: 'Start Date', name: 'VALID_PERIOD_STA_DT', width: 150, datatype: 'date', itemCd: 'CAP_STA_DT', group:'VALID_PERIOD_DT_GRP'},
        {caption: 'End Date', name: 'VALID_PERIOD_END_DT', width: 150, datatype: 'date', itemCd: 'CAP_END_DT', group:'VALID_PERIOD_DT_GRP'},
        {caption: 'Password', name: 'PASSWD'           , width: 100, datatype: 'password'},
        {caption: 'Password Expire Date', name: 'PASSWD_EXPIRE_DT', width: 150, datatype: 'date'},
        {caption: 'Employee No', name: 'EMP_NO' , width: 150, datatype: 'text'}
             ];
break;
};
};
```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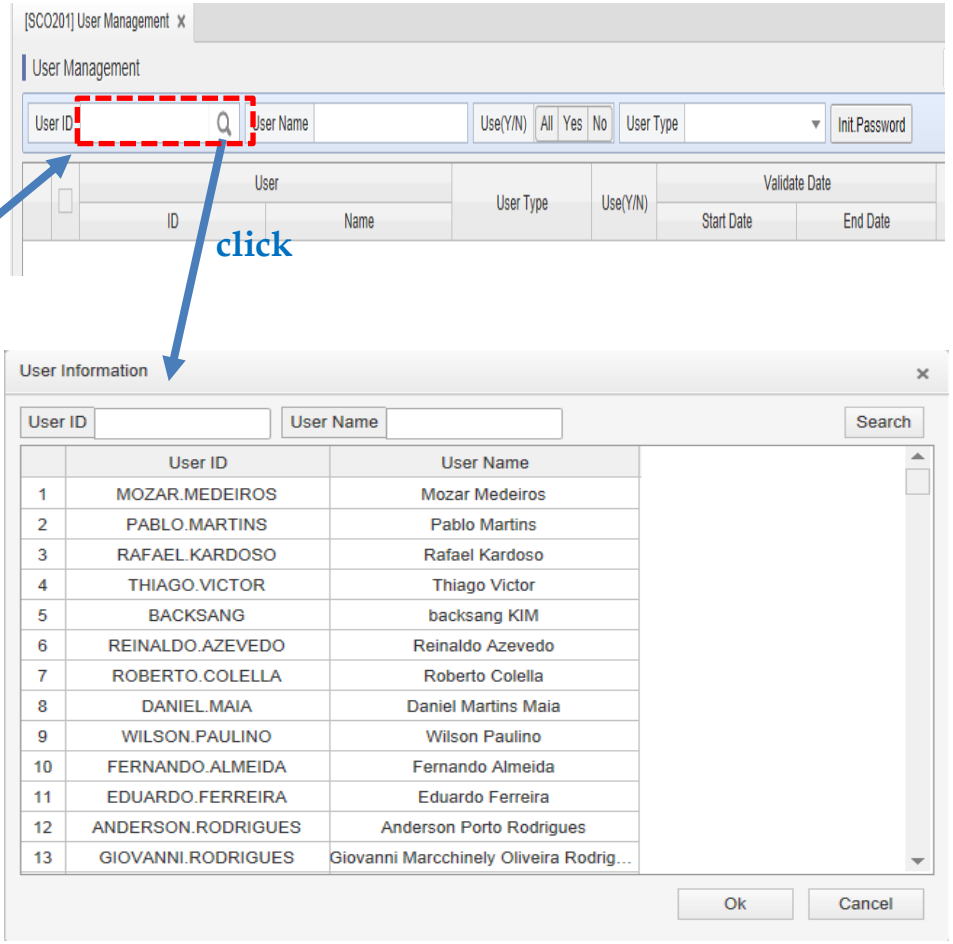
4.4 Eclipse – JSP: Popup

■ JSP Source: modify "red part"

```
<html>
<head>
<meta http-equiv="content-type" content="text/html;charset=utf-8" />
<%@ include file="./include/include.jsp" %>
<title>User Management</title>

<script type="text/javascript" src="./include/js/jquery/jquery.crypt.js"></script>

<script type="text/javascript">
// ********** Function Ready Section
   $(document).ready(function () {
      f_lastProc();
   }); // end of ready

   // ********** Last Process Job
   function f_lastProc() {
       fc_setCodeList( [
          {object: 'USER_ID', code: 'USER_LIST' }
       ]);
   }; // end of f_lastProc

   function f_setParamPopup () {
      var returnObj = new Object();
      var sOptTitle  = fc_getLabelText( 'LBL_USER_ID' ) +","+ fc_getLabelText( 'LBL_USER_NM' );
      var sOptSearch = fc_getInputVal( 'USER_ID' ) +","+ fc_getInputVal( 'USER_NM' );
      var pTitle = fc_getMultiItem('CAP_USER_INFO');

      returnObj['title'] = pTitle;      // set popup title
      returnObj['manSearch'] = '';
      returnObj['optTitle'] = sOptTitle;
      returnObj['optSearch'] = sOptSearch;
      returnObj['optResult'] = sOptTitle;

   return returnObj;
   }
</script>
</head>

<body>
      <div id="divContainer">
            <div id="divTitle"> <%@ include file="./include/includeTitle.jsp" %> </div>
            <div id="divSearchCondition"></div>
            <div id="divContents">
                  <div id="divUser"></div>
            </div>
      </div>
      <div id="divMessage"> <%@ include file="./include/includeMessage.jsp" %> </div>
</body>
</html>
```

■ Test Screen



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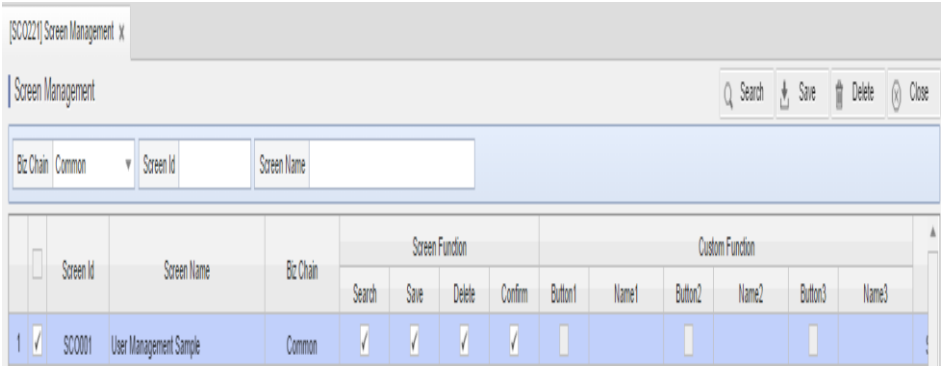
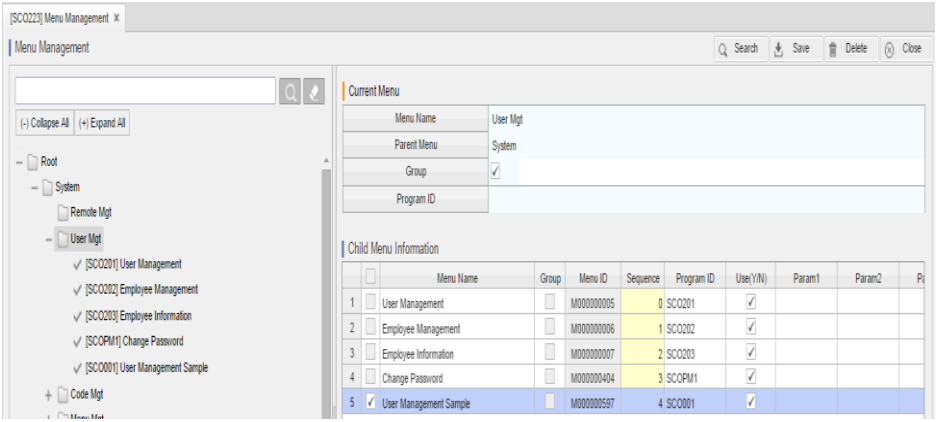
4.5 System - Menu

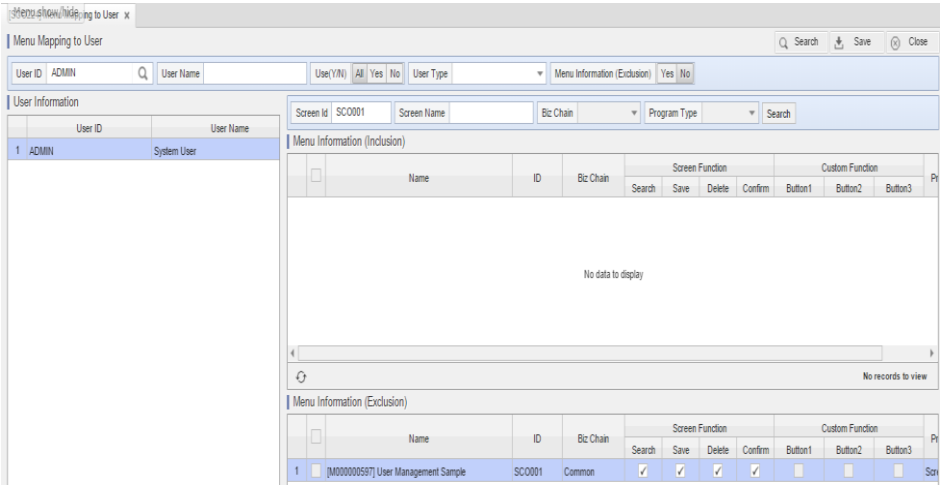
■ Enter New Screen Info(Screen Mgt.)



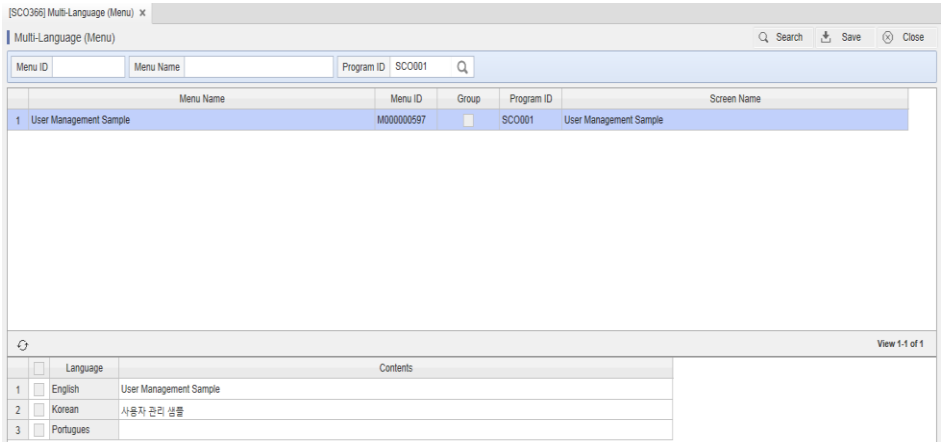
■ Enter Menu Info



■ Menu mapping



■ Enter Multi Language Info



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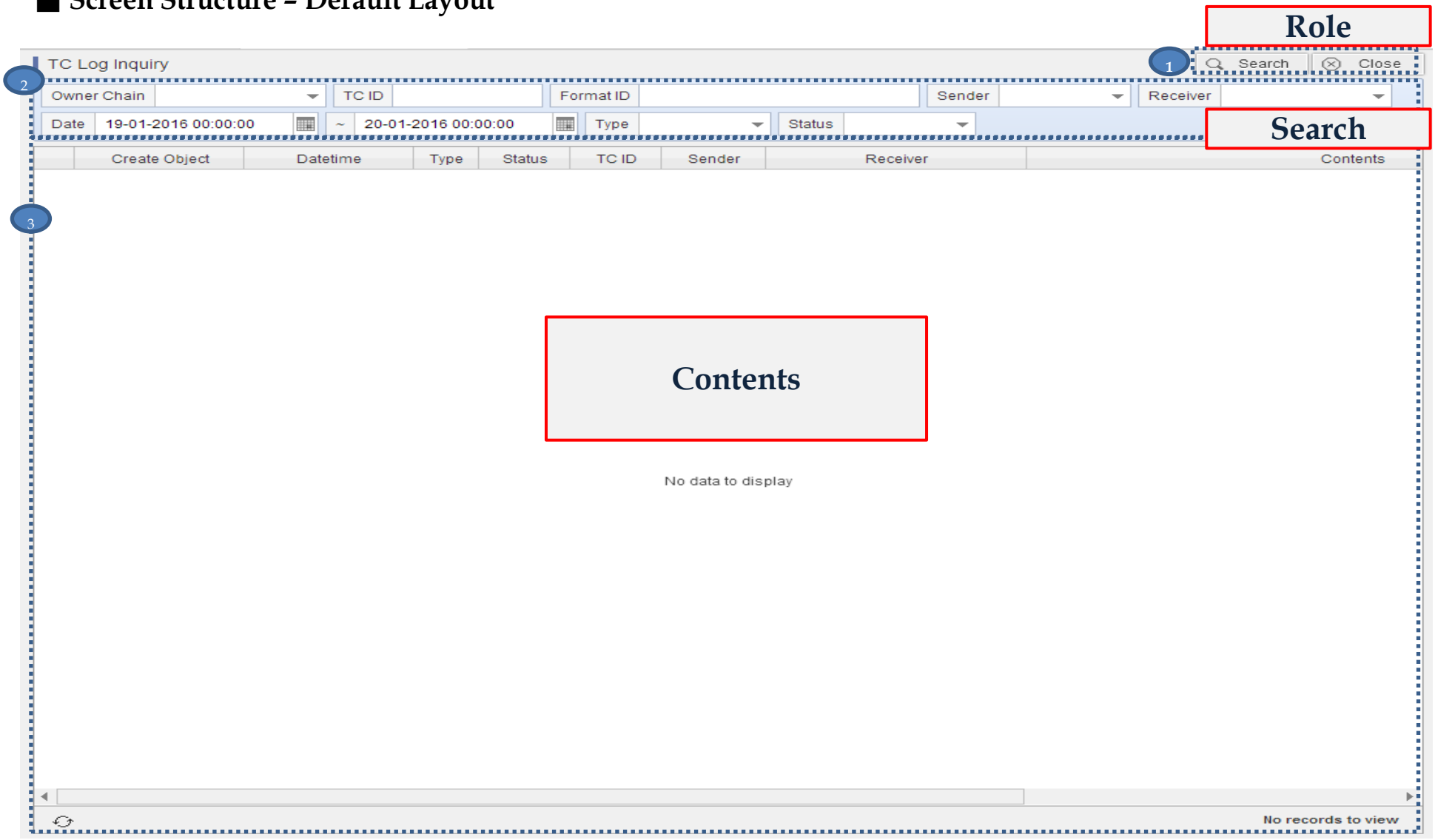
5.1 Common Functions – Screen Structure(Default)

■ Screen Structure – Default Layout



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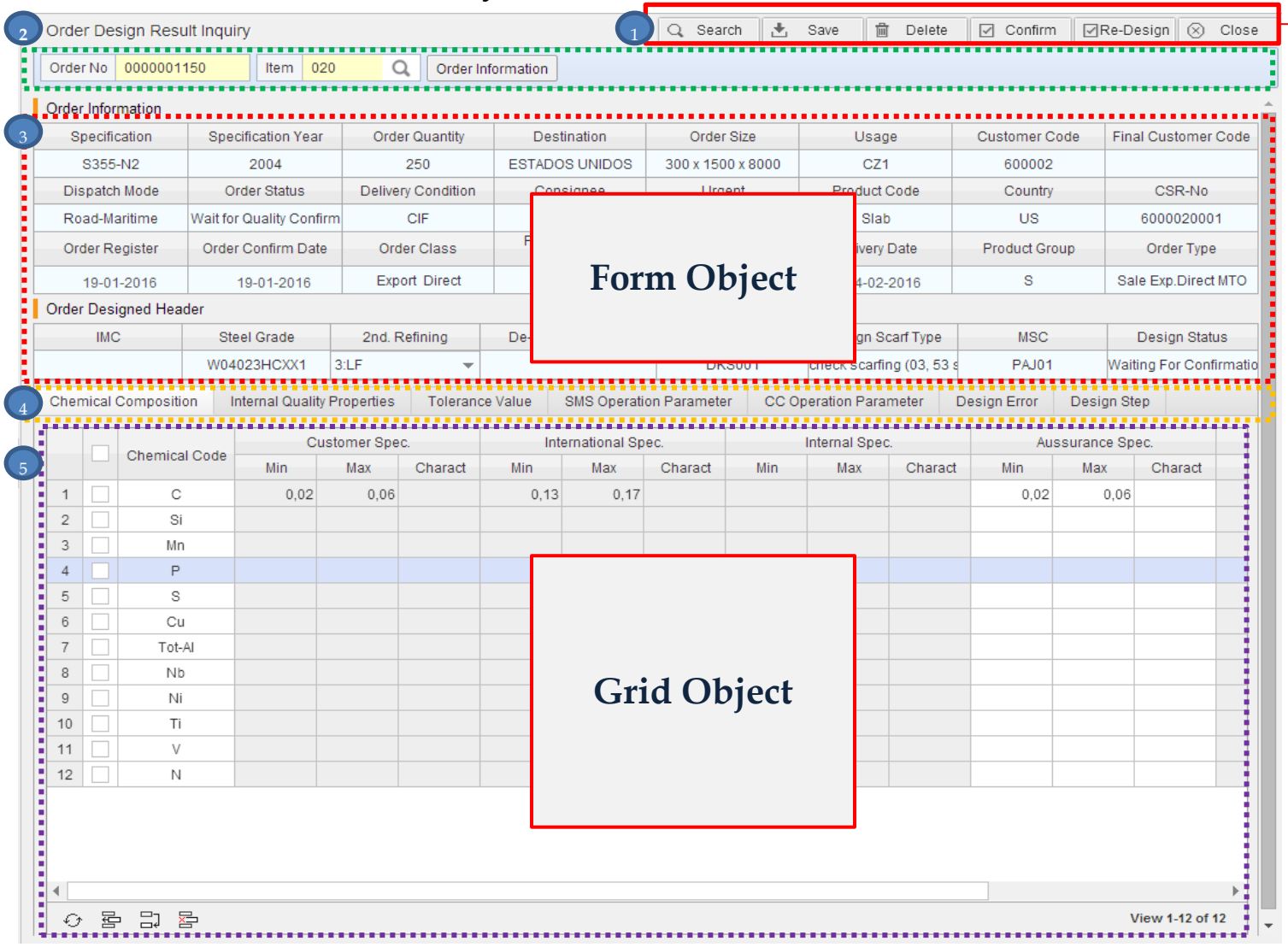
5.1 Common Functions – Screen Structure (Multi)

■ Screen Structure – Multi Layout



Role

Mandatory Functions By Role

Seq.	function name	Role
1	f_search	Search
2	f_save	Save
3	f_delete	Delete
4	f_confirm	Confirm
5	f_cust1	Cust1
6	f_cust2	Cust2
7	f_cust3	Cust3
8	f_cust4	Cust4
9	f_cust5	Cust5

Common javascript

Area	File name
1	jqueryFormUtils.js
2	jqueryTabUtils.js
3	jqueryGridUtils.js
4	jqueryInitUtils.js
5	jqueryCommon.js

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5.2 Common Functions

■ Common Function List

Seq.	Name	Description
1	jQueryChartUtils.js	Chart module
2	jQueryCommon.js	set Screen Role, Screen Title, Screen Resize, Multi language .. Other features
3	jQueryFormUtils.js	Create element (HTML Element), Make Table, get/set Element Value,
4	jQueryFunctions.js	Common javascript function
5	jQueryGridUtils.js	Grid module
6	jQueryInitUtils.js	Component Management - System environment variables - Glue Service Call(Ajax Transition) - Authority Inquiry, setup - Others System Information Inquiry, setup
7	jQueryLogin.js	Login module
8	jQueryMessageBoxUtils.js	Message Box module - information, confirm, error
9	jQueryMessageUtils.js	Multi Language of System
10	jQueryTabUtils.js	Tab module
11	jQueryTreeGridUtils.js	TreeGrid module
12	jQueryTreeUtils.js	Rebuild JS-Tree module
13	jQueryValidatorUtils.js	Validate value objects -Required fields, Type (Date)
14	jQueryWindowUtils.js	Popup module - Design
15	jqxGridLocalization.js	JqWigets Generated by the Globalize Culture Generator - Date Format, Number Format

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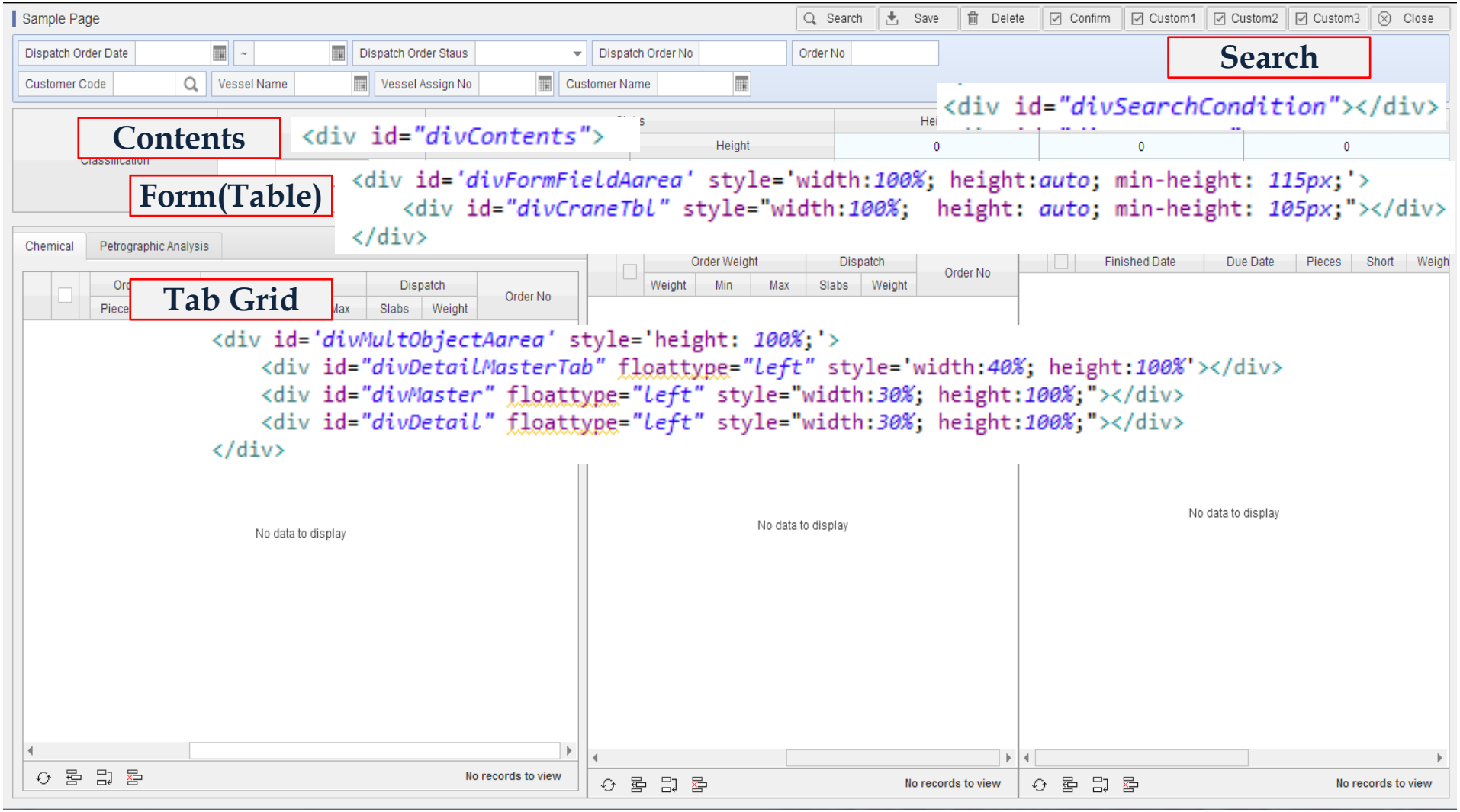
5.3 How to make screen – Screen

■ JSP: Body Section



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5.3 How to make screen – Screen Layout

■ JSP: Body Section

```
<div id="divSearchCondition"></div>
<div id="divContents">
    <div id='divFormFieldAarea' style='width:100%; height:auto; min-height: 115px;'>
        <div id="divCraneTbl" style="width:100%;  height: auto; min-height: 105px;"></div>
    </div>
    <div id='divMultObjectAarea' style='height: 100%;'>
        <div id="divDetailMasterTab" floattype="left" style='width:40%; height:100%'></div>
        <div id="divMaster" floattype="left" style="width:30%; height:100%;"></div>
        <div id="divDetail" floattype="left" style="width:30%; height:100%;"></div>
    </div>
</div>
```

SCO : no need change

1. <Division> divSearchCondition : Search Area
2. < Division > divContents : Contents Area
   - Grid, Tab, Form Object

Developer: need modification

CSS Attribute

CSS Attribute

Vertical Alignment

```
#divContents div[floatType='group'] {
    position: relative;
    /*  overflow: auto; */
    width: 100%;
    height: inherit;
}
```

Horizontal Alignment

```
/* TODO : 스크롤 발생시 화면 줄어드는 현상이 있음 JS
#divContents div[floatType='left'] {
    float: left;
    overflow: hidden;
    width: 100%;
    height: inherit;
}
```

Inline block Type

```
div[grptype^='group']>div {
    /*padding: 3px;*/
    display: inline-block;
    vertical-align: middle;
}
```


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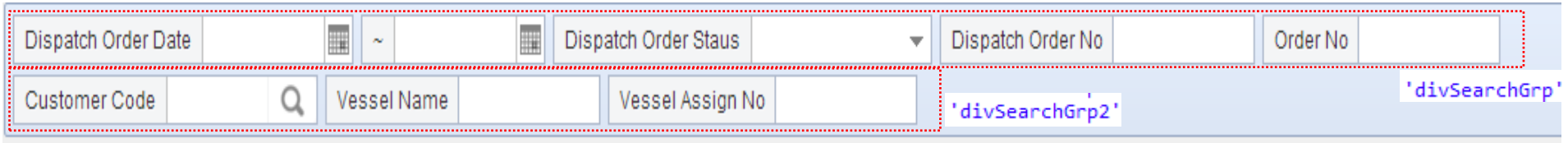
5.3 How to make screen – Search Condition

■ JSP: Search Condition

```
var targetObj = $( '#divSearchCondition' );
var objList = [
     {groupname: 'divSearchGrp',  caption: 'Dispatch Order Date'    , name: 'DORD_DTM_GR'   , itemCd: 'DORD_DTM'    , width: 100, datatype: 'daterange' , target: ['DORD_DTM_FR', 'DORD_DTM_TO', 'date']}
    ,{groupname: 'divSearchGrp',  caption: 'Dispatch Order Status'  , name: 'DORD_STS'                                , width: 120, datatype: 'lov'                                                    }
    ,{groupname: 'divSearchGrp',  caption: 'Dispatch Order No'      , name: 'DORD_NO'                                 , width: 80 , datatype: 'text'      , uppercase: true                            }
    ,{groupname: 'divSearchGrp',  caption: 'Order No'               , name: 'ORD_NO'                                  , width: 80 , datatype: 'text'      , uppercase: true                            }
    ,{groupname: 'divSearchGrp2', caption: 'Customer'               , name: 'CUST_CD'                                 , width: 100, datatype: 'popup'     , uppercase: true                            }
    ,{groupname: 'divSearchGrp2', caption: 'Vessel Name'            , name: 'SHIP_NM'                                 , width: 80 , datatype: 'text'                                                   }
    ,{groupname: 'divSearchGrp2', caption: 'Vessel Assign No'       , name: 'SHIP_ASGN_NO'                            , width: 80 , datatype: 'text'      , uppercase: true                            }
    ,{groupname: 'divSearchGrp2', caption: 'Customer Name'          , name: 'CUST_NM'                                 , width: 100, datatype: 'header'    , hidden: true                               }
];
// make HTML
fc_createDOM( targetObj, objList );
```



Seq.	Attribute	Description	Seq.	Attribute	Description
1	align	Left, right, middle	9	itemValue	Multi domain Item Attribute
2	caption	Field Label Caption	10	lowercase	Value Lower Case
3	datatype	Data Type	11	maxlength	Field Max length
4	defval	Default Value	12	name	Element Object name
5	height	number Height	13	readonly	Boolean read only
6	hidden	boolean hidden	14	required	Boolean mandatory
7	integers	Integer Digits	15	uppercase	value Upper Case
8	itemCd	Multi domain Item Cd	16	width	number Width

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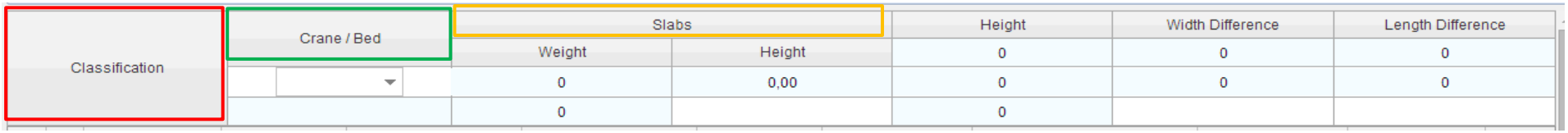
5.3 How to make screen – Table

■ JSP: Contents Area (Table)



Classification	Crane / Bed	Slabs		Height	Width Difference	Length Difference
		Weight	Height	0	0	0
		0	0,00	0	0	0
		0		0		

```
var tableObj = $( '#divCraneTbl' );
var tableId = 'tblCrane';
var colWidths = [100, 100, 100, 100, 100, 100, 100];
var colObjList = [
     {caption: 'Classification'        , name: 'ROW_SPAN'              , itemCd: 'CAP_CLS'       , datatype: 'header'
    ,{caption: 'Crane / Bed'           , name: 'ROW_SPAN2'             , itemCd: 'CAP_CRN_BED'   , datatype: 'header'
    ,{caption: 'Pieces'                , name: 'COL_SPAN1'             , itemCd: 'CAP_PCS'       , datatype: 'header'
    ,{caption: 'Pieces'                , name: 'COL_SPAN1'             , itemCd: 'CAP_PCS'       , datatype: 'header'
    ,{caption: 'Height'                , name: 'YD_MAX_LOAD_HGT_HD'    , itemCd: 'CAP_HGT'       , datatype: 'header'
    ,{caption: 'Width Difference'      , name: 'YD_MAX_DIFF_WTH_HD'    , itemCd: 'CAP_WTH_DIFF'  , datatype: 'header'
    ,{caption: 'Length Difference'     , name: 'YD_MAX_DIFF_LTH_HD'    , itemCd: 'CAP_LTH_DIFF'  , datatype: 'header'

    ,{caption: 'Classification'        , name: 'ROW_SPAN'              , itemCd: 'CAP_CLS'       , datatype: 'header'
    ,{caption: 'Crane / Bed'           , name: 'ROW_SPAN2'             , itemCd: 'CAP_CRN_BED'   , datatype: 'header'
    ,{caption: 'Weight'                , name: 'YD_MAX_LOAD_WGT_HD'    , itemCd: 'CAP_WGT'       , datatype: 'header'
    ,{caption: 'Pieces'                , name: 'YD_MAX_LOAD_PCS_HD1'   , itemCd: 'CAP_HGT'       , datatype: 'header'
    ,{caption: 'Height Data'           , name: 'YD_MAX_LOAD_HGT_FR'                              , datatype: 'slabthk'   , align: 'center'   , r
    ,{caption: 'Width Difference Data' , name: 'YD_MAX_DIFF_WTH_FR'                              , datatype: 'slabwth'   , align: 'center'   , r
    ,{caption: 'Length Difference Data', name: 'YD_MAX_DIFF_LTH_FR'                              , datatype: 'slablth'   , align: 'center'   , r

    ,{caption: 'Classification'        , name: 'ROW_SPAN'              , itemCd: 'CAP_CLS'       , datatype: 'header'
    ,{caption: 'Crane Data'            , name: 'YD_CRN_NO'                                       , datatype: 'lov'       , align: 'center'
    ,{caption: 'Pieces Data'           , name: 'YD_MAX_LOAD_PCS'                                 , datatype: 'integer'   , align: 'center'   , r
    ,{caption: 'Weight Data'           , name: 'YD_MAX_LOAD_WGT'                                 , datatype: 'slabwgt'   , align: 'center'   , r
    ,{caption: 'Height Data'           , name: 'YD_MAX_LOAD_HGT'                                 , datatype: 'slabthk'   , align: 'center'   , r
    ,{caption: 'Width Difference Data' , name: 'YD_MAX_DIFF_WTH'                                 , datatype: 'slabwth'   , align: 'center'   , r
    ,{caption: 'Length Difference Data', name: 'YD_MAX_DIFF_LTH'                                 , datatype: 'slablth'   , align: 'center'   , r

    ,{caption: 'Classification'        , name: 'ROW_SPAN'              , itemCd: 'CAP_CLS'       , datatype: 'header'
    ,{caption: 'To Bed'                , name: 'YD_TO_BED_CD'                                    , datatype: 'text'      , align: 'center'   , r
    ,{caption: 'Pieces Data'           , name: 'YD_MAX_LOAD_PCS_TO'                              , datatype: 'integer'   , align: 'center'   , r
    ,{caption: 'Weight Data'           , name: 'YD_MAX_LOAD_WGT_TO'                              , datatype: 'label'
    ,{caption: 'Height Data'           , name: 'YD_MAX_LOAD_HGT_TO'                              , datatype: 'integer'   , align: 'center'   , r
    ,{caption: 'Width Difference Data' , name: 'YD_MAX_DIFF_WTH_TO'                              , datatype: 'label'
    ,{caption: 'Length Difference Data', name: 'YD_MAX_DIFF_LTH_TO'                              , datatype: 'label'
];
fc_createFormTable(tableObj, tableId, 7, 0, colWidths, colObjList);

fc_setHeaderRowSpanByArray( tableId, [0,1] );   // rowspan : column index 0, 1
fc_setHeaderColSpanByArray( tableId, [0] );     // rowspan : row index 0
```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5.3 How to make screen – Table: Data Type

■ JSP: Contents Area (Data Type)

Seq.	Attribute	Description	Seq.	Attribute	Description
1	text	Input Text	19	number3	decimal digits 3
2	popup	Grid Popup	20	number4	decimal digits 4
3	checkbox	checkbox	21	slabthk	Number Integer
4	yearmonth	Year Month Calendar	22	slabwth	Number Integer
5	monthday	Monthy day Calendar	23	slablth	Number Integer
6	date	Date Calendar	24	platethk	Number Integer
7	datetime	Date Time Calendar	25	platewth	Number Integer
8	datemin	Date Minute Calendar	26	platelth	Number Integer
9	datehour	Date Hour Calendar	27	coilthk	Number Integer
10	time	Time	28	coilwth	Number Integer
11	hour	Hour	29	coillth	Number Integer
12	hourmin	Hour Minute	30	bloomthk	Number Integer
13	minsec	Minute Second	31	bloomwth	Number Integer
14	integer	Number Integer	32	bloomlth	Number Integer
15	number	Big Decimal Type	33	billetthk	Number Integer
16	number0	decimal digits 0	34	billetwth	Number Integer
17	number1	decimal digits 1	35	billetlth	Number Integer
18	number2	decimal digits 2	36	slabwgt	decimal digits 2

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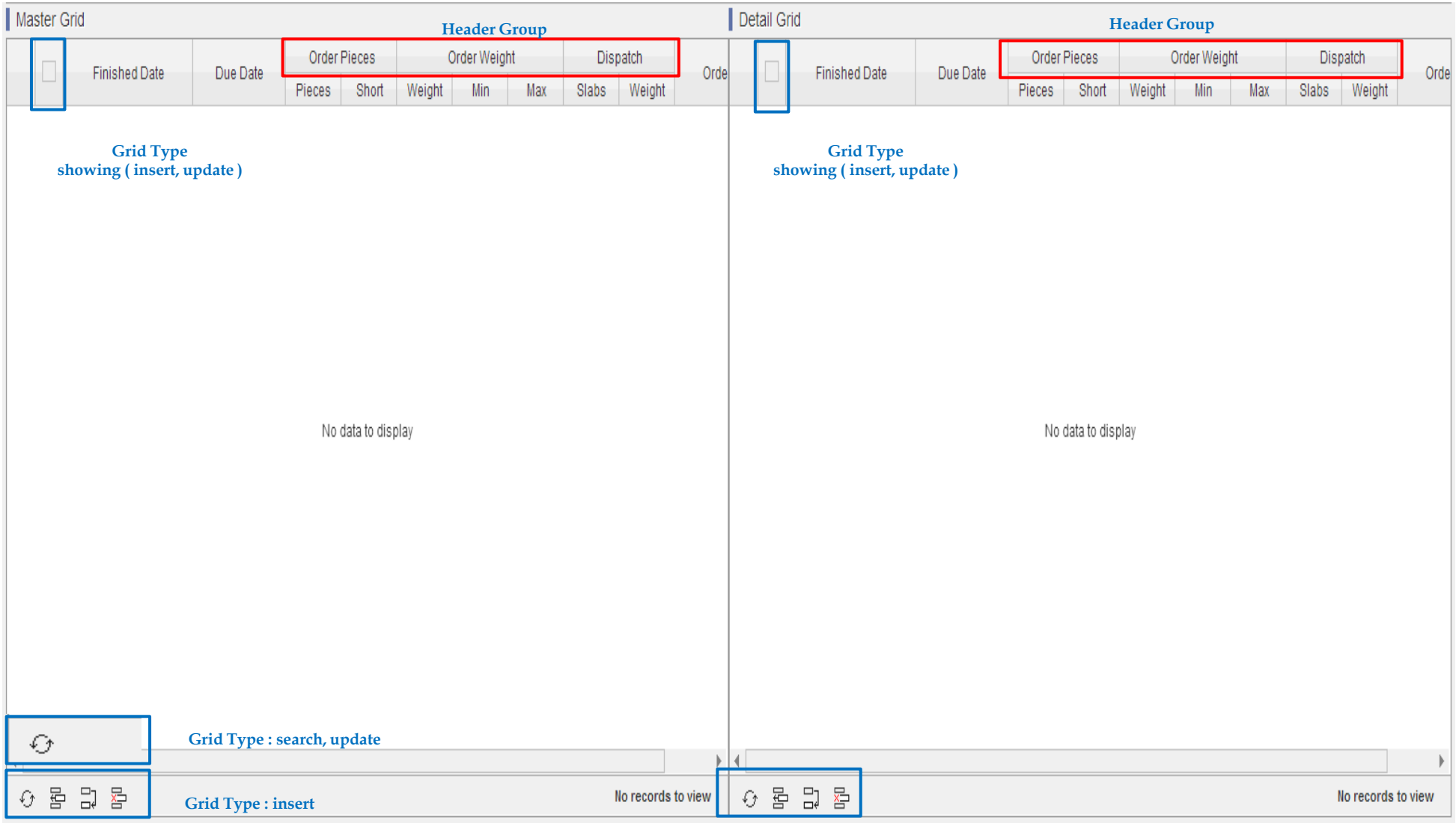
5.3 How to make screen – Grid Layout

■ JSP: Contents Area (Grid Layout)



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5.3 How to make screen – Grid Coding

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■ JSP: Contents Area (Grid Coding)

Set Column Header Group

		Finished Date	Due Date	Order Pieces		Order Weight			Dispatch		Order No
				Pieces	Short	Weight	Min	Max	Slabs	Weight	

```
function jQueryGrid( targetObj      : DIV Object for drawing the grid
                   , gridId         : Grid ID
                   , gridCols       : [ { Grid Column Object } ]
                   , gridType       : insert, update, search
                   , gridCaption    : Grid Title { Object }
                   , gridKey        : Unique Grid Key ( String )
                   , gridColGroups  : Grid Column Header Group  [ { Column Group Object} ]
                   , tabGridFlag    : belong Tab Object ( Boolean true/false )
                   , addType        : Add Row Type( true : current position down, false : current position top )
                   , bGridMultiLanguage : Multi Language Use ( true, false ) Default : set by the system.          )
```

Set Column Header Group

```
var targetObj = $( '#divMaster' );
var gridId    = 'gridMaster';
var gridKey   = 'gridMasterKey';
var gridColGroup = [
        {caption: 'Order Pieces'   , name:'ORD_PCS_GRP', itemCd: 'CAP_ORD_PCS' , align: 'center'}
       ,{caption: 'Order Weight'   , name:'ORD_WGT_GRP', itemCd: 'CAP_ORD_WGT' , align: 'center'}
       ,{caption: 'Dispatch'       , name:'DISP_GRP'   , itemCd: 'CAP_DISP'    , align: 'center'}
       ,{caption: 'Vessel'         , name:'VESSEL_GRP' , itemCd: 'CAP_VESSEL'  , align: 'center'}
    ];
var gridCols = [
        {caption: 'Complete Date'         , name: 'DORD_END_DTM'                          , width: 140, datatype: 'datetime'  , align: 'center'                    }
       ,{caption: 'Due Date'              , name: 'DISP_DUE_DT'      , itemValue: 1       , width: 100, datatype: 'date'      , align: 'center'                    }
       ,{caption: 'Order Pieces'          , name: 'DORD_TOT_PCS'     , itemValue: 1       , width: 60 , datatype: 'integer'                    , group:'ORD_PCS_GRP'  }
       ,{caption: 'Order Short Pieces'    , name: 'SHORT_PROD_PCS'   , itemValue: 1       , width: 60 , datatype: 'integer'                    , group:'ORD_PCS_GRP'  }
       ,{caption: 'Order Weight'          , name: 'DORD_TOT_WGT'     , itemValue: 1       , width: 60 , datatype: 'slabwgt'                    , group:'ORD_WGT_GRP'  }
       ,{caption: 'Order Weight Min'      , name: 'DORD_WGT_MIN'     , itemValue: 1       , width: 60 , datatype: 'slabwgt'                    , group:'ORD_WGT_GRP'  }
       ,{caption: 'Order Weight MAx'      , name: 'DORD_WGT_MAX'     , itemValue: 1       , width: 60 , datatype: 'slabwgt'                    , group:'ORD_WGT_GRP'  }
       ,{caption: 'Dispatch Pieces'       , name: 'DISP_PCS'         , itemCd: 'CAP_PCS'  , width: 60 , datatype: 'integer'                    , group:'DISP_GRP'     }
       ,{caption: 'Dispatch Weight'       , name: 'DISP_WGT'         , itemCd: 'CAP_WGT'  , width: 60 , datatype: 'slabwgt'                    , group:'DISP_GRP'     }
       ,{caption: 'Order No'              , name: 'ORD_NO'                                , width: 110, datatype: 'text'      , align: 'center'                    }
    ];
var gridType = 'insert';
var gridCaption = { caption:'Master Grid', itemCd:'', isMultiLanguage: false };
gridMaster = new jQueryGrid( targetObj, gridId, gridCols, gridType, gridCaption, gridKey, gridColGroup );
```

Set Column Header Group

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5.3 How to make screen – Grid Property

■ JSP: Contents Area (Grid Column Property)

Seq.	Attribute	Description	Seq.	Attribute	Description
1	name	Column Name	13	exportable	Export Excel
2	caption	Column Caption	14	Maxlength	value Max length
3	width	If using multiple languages à not Used	15	isMultiLanguage	Is Multi Language (true/false)
4	align	Value Align	16	itemCd	Multi Language Item Cd
5	editable	available Modify(true/false)	17	itemValue	multi domain Item attribute (itemValue : "0~3") default : 0
6	sortable	available Column Sort (true/false)	18	fc_setColUpperCase	Value Upper Case
7	frozen	fixed column	19	fc_setColLowerCase	Value Lower Case
8	datatype	Column Data Type	20	fc_setGridPKeys	set Grid Column PK(modify X)
9	hidden	hide column (true/ false)	21	fc_setParentGrid	Set the parent from the child. (Master and Details Grid)
10	nullable	Set Required (true/false)	22	setcolumnproperty	Sets a property of a column. Possible property names: 'text', 'hidden', 'hideable', 'renderer', 'cellsrenderer', 'align', 'cellsalign', 'cellsformat', 'pinned', 'contenttype', 'resizable', 'filterable', 'editable', 'cellclassname', 'classname', 'width', 'minwidth', 'maxwidth'
11	group	Column Header Group			
12	inputreadonly	available Popup column Input box read only (true/false)			

http://www.jqwidgets.com/jquery-widgets-documentation/documentation/jqxgrid/jquery-grid-api.htm?search=grid

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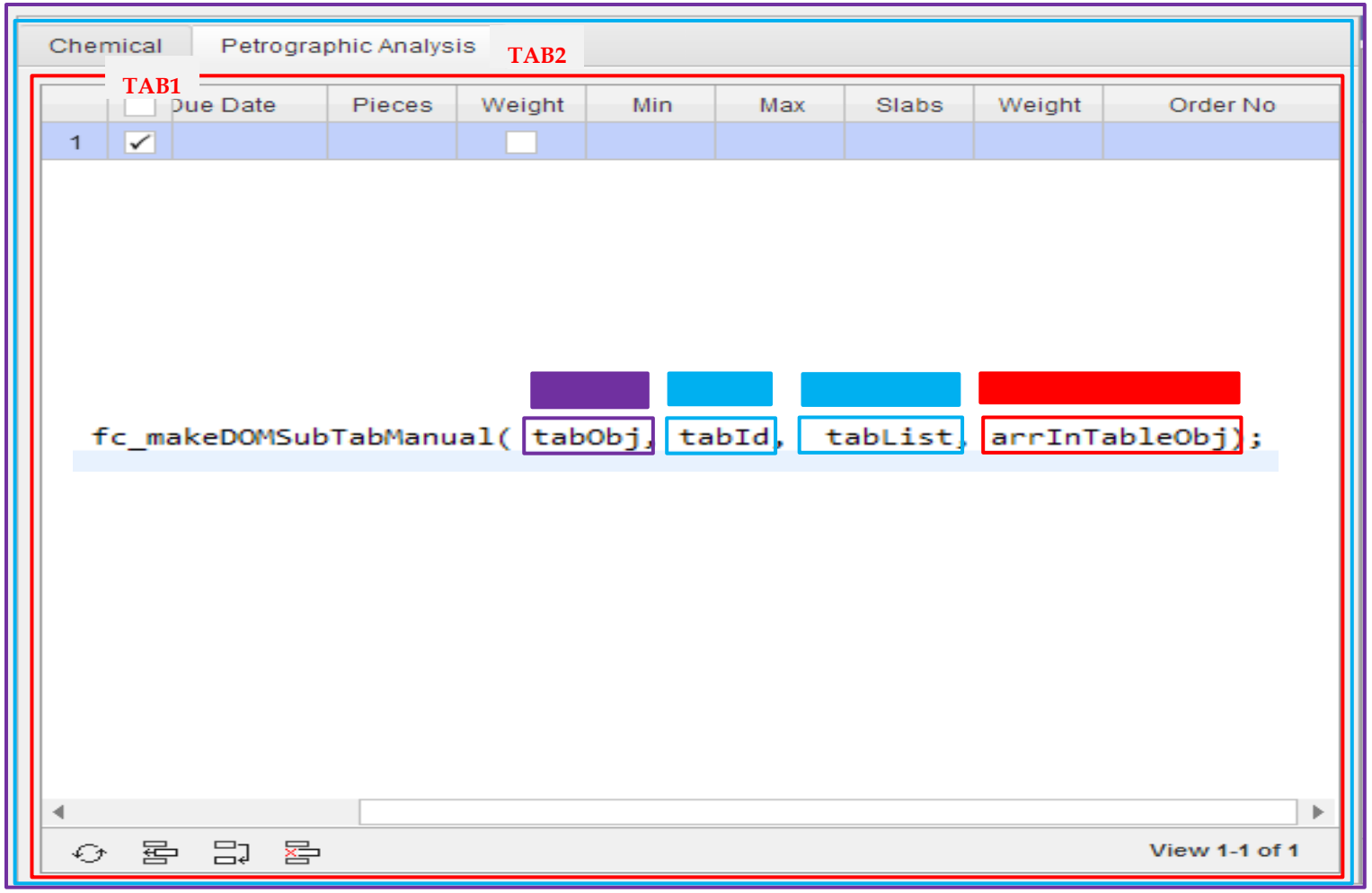
5.3 How to make screen – Tab

■ JSP: Contents Area (Tab)

```
<div id="divDetailMasterTab" floattype="left" style='width:40%; height:100%'></div>
```



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5.3 How to make screen – Tab Coding

Sample

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■ JSP: Contents Area (Tab Coding)

Creation tabGridMaster

```
var targetObj = $( '#TAB1' );
var gridId    = 'tabGridMaster';
var gridKey   = 'tabGridMasterKey';
var gridColGroup = [
        {caption: 'Order Pieces'   , name:'ORD_PCS_GRP', itemCd: 'CAP_ORD_PCS' , align: 'center'}
       ,{caption: 'Order Weight'   , name:'ORD_WGT_GRP', itemCd: 'CAP_ORD_WGT' , align: 'center'}
       ,{caption: 'Dispatch'       , name:'DISP_GRP'   , itemCd: 'CAP_DISP'    , align: 'center'}
       ,{caption: 'Vessel'         , name:'VESSEL_GRP' , itemCd: 'CAP_VESSEL'  , align: 'center'}
    ];
var gridCols = [
        {caption: 'Complete Date'         , name: 'DORD_END_DTM'                        , width: 140, datatype: 'datetime'  , align: 'center'                    }
       ,{caption: 'Due Date'              , name: 'DISP_DUE_DT'      , itemValue: 1     , width: 100, datatype: 'date'      , align: 'center'                    }
       ,{caption: 'Order Pieces'          , name: 'DORD_TOT_PCS'     , itemValue: 1     , width: 60 , datatype: 'integer'                    , group:'ORD_PCS_GRP'}
       ,{caption: 'Order Short Pieces'    , name: 'SHORT_PROD_PCS'   , itemValue: 1     , width: 60 , datatype: 'integer'                    , group:'ORD_PCS_GRP'}
       ,{caption: 'Order Weight'          , name: 'DORD_TOT_WGT'     , itemValue: 1     , width: 60 , datatype: 'slabwgt'                    , group:'ORD_WGT_GRP'}
       ,{caption: 'Order Weight Min'      , name: 'DORD_WGT_MIN'     , itemValue: 1     , width: 60 , datatype: 'slabwgt'                    , group:'ORD_WGT_GRP'}
       ,{caption: 'Order Weight MAx'      , name: 'DORD_WGT_MAX'     , itemValue: 1     , width: 60 , datatype: 'slabwgt'                    , group:'ORD_WGT_GRP'}
       ,{caption: 'Dispatch Pieces'       , name: 'DISP_PCS'         , itemCd: 'CAP_PCS' , width: 60 , datatype: 'integer'                    , group:'DISP_GRP'   }
       ,{caption: 'Dispatch Weight'       , name: 'DISP_WGT'         , itemCd: 'CAP_WGT' , width: 60 , datatype: 'slabwgt'                    , group:'DISP_GRP'   }
       ,{caption: 'Order No'              , name: 'ORD_NO'                              , width: 110, datatype: 'text'      , align: 'center'                    }
    ];
var gridType = 'insert';
var gridCaption = '';
tabGridMaster = new jQueryGrid( targetObj, gridId, gridCols, gridType, gridCaption, gridKey, gridColGroup , true);
```

```
var targetObj = $( '#TAB2' );
var gridId    = 'tabGridDetail';
var gridKey   = 'tabGridDetailKey';
var gridColGroup;
var gridCols = [
        {caption: 'Complete Date'         , name: 'DORD_END_DTM'                        , width: 140, datatype: 'text'      , align: 'center'      }
       ,{caption: 'Due Date'              , name: 'DISP_DUE_DT'      , itemValue: 1     , width: 100, datatype: 'popup'     , align: 'center'      }
       ,{caption: 'Order Pieces'          , name: 'DORD_TOT_PCS'     , itemValue: 1     , width: 60 , datatype: 'textarea'                         }
       ,{caption: 'Order Short Pieces'    , name: 'SHORT_PROD_PCS'   , itemValue: 1     , width: 60 , datatype: 'status'                           }
       ,{caption: 'Order Weight'          , name: 'DORD_TOT_WGT'     , itemValue: 1     , width: 60 , datatype: 'checkbox'                         }
       ,{caption: 'Order Weight Min'      , name: 'DORD_WGT_MIN'     , itemValue: 1     , width: 60 , datatype: 'yearmonth'                        }
       ,{caption: 'Order Weight MAx'      , name: 'DORD_WGT_MAX'     , itemValue: 1     , width: 60 , datatype: 'monthday'                         }
       ,{caption: 'Dispatch Pieces'       , name: 'DISP_PCS'         , itemCd: 'CAP_PCS' , width: 60 , datatype: 'date'                             }
       ,{caption: 'Dispatch Weight'       , name: 'DISP_WGT'         , itemCd: 'CAP_WGT' , width: 60 , datatype: 'minsec'                           }
       ,{caption: 'Order No'              , name: 'ORD_NO'                              , width: 110, datatype: 'datemin'   , align: 'center'      }
    ];
var gridType = 'insert';
var gridCaption = '';
tabGridDetail = new jQueryGrid( targetObj, gridId, gridCols, gridType, gridCaption, gridKey, gridColGroup , true);
```

Creation tabGridDetail

```
var arrInTableObj = [ tabGridMaster , tabGridDetail ];
var tabObj  = $( '#divDetailMasterTab' );
var tabId = 'tabDetailMaster';
var tabList = [
    {caption: 'Master'              , name: 'TAB1' , itemCd:'CAP_CHEMICAL'         ,contentstype:'grid', itemValue: '1'},
    {caption: 'Details'             , name: 'TAB2' , itemCd:'CAP_PART_SIZE_COARSE' ,contentstype:'grid'}
];

window.gwCustTab = fc_makeDOMSubTabManual( tabObj, tabId,  tabList, arrInTableObj);
fc_setTabSelected( tabId, fc_formResize);
fc_setFirstItem( tabId, 100);
```

```
function f_lastProc() {
  fc_setDynamicDivHeight( [ 'divMultObjectAarea' ] );
}
```

```
<div id="divSearchCondition"></div>
<div id="divContents">
    <div id='divFormFieldAarea' style='width:100%; height:auto; min-height: 115px;'>
        <div id="divCraneTbl" style="width:100%;  height: auto; min-height: 105px;"></div>
    </div>
    <div id='divMultObjectAarea' style='height: 100%;'>
        <div id="divDetailMasterTab" floattype="left" style='width:40%; height:100%'></div>
        <div id="divMaster" floattype="left" style="width:30%; height:100%;"></div>
        <div id="divDetail" floattype="left" style="width:30%; height:100%;"></div>
    </div>
</div>
```

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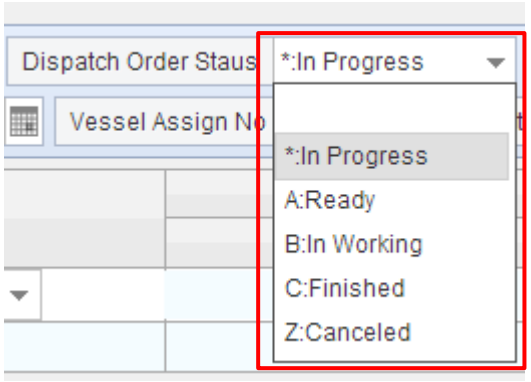
5.3 How to make screen – LOV Data

■ JSP: Contents Area (Combo: LOV Data)



Column Object (Form Object)

```
,{groupname: 'divSearchGrp',  caption: 'Dispatch Order Status'  , name: 'DORD_STS' , width: 120, datatype: 'lov' }
```

Column Object(Grid Object)

```
,{caption: 'Order No'              , name: 'ORD_NO' , width: 110, datatype: 'lov'      , align: 'center'}
```

Get Code

```
fc_getLovData( [
                {code: 'DORD_STS_A'     , tags: ''   , alias: ''}
               ,{code: 'DORD_STS'       , tags: ''   , alias: ''}
               ]);
```

Set Combo Value Code (LOV Details)

```
fc_setLovData( [
               {object: 'DORD_STS'    , code: 'DORD_STS_A'    , format: 'K:V' , nullable: true, defval: '*'   }
              ,{object: gridMaster.getGridId()+'.ORD_NO' , code: 'DORD_STS_A'    , format: 'K:V' , nullable: true, defval: '*'   }
             ]);
```

Get Code		
Seq.	**Attribute**	**Description**
1	code	Master Code, Query Master Key
2	tag	Filter
3	alias	Change Result Key
4	conditions	Query Master search Condition

Set Code (object)		
Seq.	**Attribute**	**Description**
1	object	Object Id (Set Code Data)
2	code	Code Result Key
3	format	Display Code Value (V:value, K:key, KV:key | value)
4	nullable	Add Null Value (true/false)
5	defval	Default Value

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5.3 How to make screen – LOV Combination

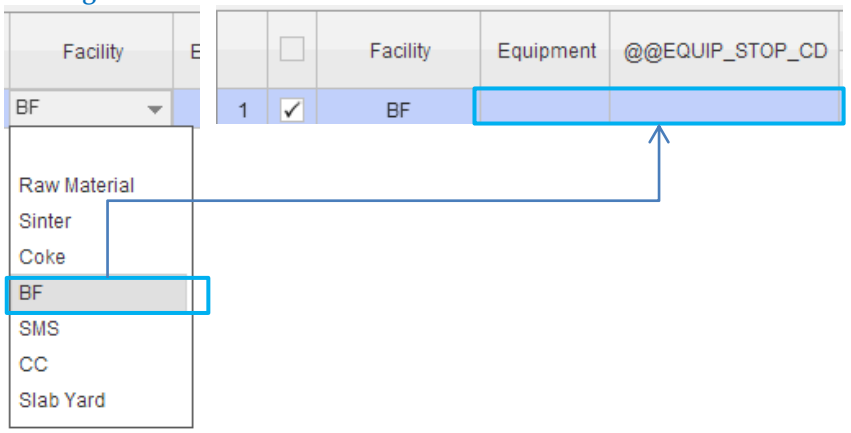
■ JSP: Contents Area (Combo Combination)

		Facility	Equipment	@@EQUIP_STOP_CD
1	✓	Sinter	@_Sinter #1	Preventive Maintenance

Column Object

```
{caption: 'Facility'          , name: 'EQUIP_FACIL_CD'          , width: 100, datatype: 'lov'     , align: 'center'}
,{caption: 'Equipment'        , name: 'STOP_OCC_EQUIP_LOC_CD'   , width: 100, datatype: 'lov'     , align: 'center'}
,{ caption: 'Stoppage'        , name: 'EQUIP_STOP_CD'           , width: 100, datatype: 'lov' }
```

Change Value



set Grid Cell LOV Change event

```
//set Grid Cell lov Change event
fc_setGridComboFilter( {  object: gridMaster.getGridId()+'.STOP_OCC_EQUIP_LOC_CD'
                        , code: 'STOP_OCC_EQUIP_LOC_CD'
                        , format: 'V'
                        , nullable: false
                        , defval: ''
                        , parentColNm: 'EQUIP_FACIL_CD'
                        , arrowColNm: 'TAGS'
} );
fc_setGridComboFilter( {  object: gridMaster.getGridId()+'.EQUIP_STOP_CD'
                        , code: 'EQUIP_STOP_CD'
                        , format: 'V'
                        , nullable: false
                        , defval: ''
                        , parentColNm: 'EQUIP_FACIL_CD'
                        , arrowColNm: 'TAGS'
} );
```

Seq.	Name	Description	Seq.	Name	Description
1	object	Taget Objcet Id	4	nullable	Add Null Value (true/false)
2	code	Code Result Key	5	defval	Default Value
3	format	Display Code Value (V:value, K:key, KV:key | value)	6	parentColNm	Owner Event (Object Id)
			7	arrowColNm	Arrow Code Value(Filter)

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5.3 How to make screen – Form Function List

■ JSP: Form Function List

Seq.	Name	Example
1	fc_setInputVal(targetId, value)	fc_setInputVal('TAB_NM', 'AAAA');
2	fc_setReadOnly(targetId, flag)	fc_setReadOnly('BIZ_CHAIN_CD', true);
3	fc_getInputVal(targetId)	fc_getInputVal('H_HEAT_NO');
4	fc_setFormBindEvent(targetId, event, callback)	fc_setFormBindEvent('ADD_SLAB_BTN1', 'click', f_add_slab);
5	fc_addParamForm(searchConditionId)	fc_addParamForm('divSearchCondition');
6	fc_addParam(key, value)	fc_addParam('PROC_TY', 'AAA');
7		
8		
9		
10		
11		
12		
13		

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5.3 How to make screen – Grid Function List

■ JSP: Grid Function List

Seq.	Name	Description
1	fc_setGridBindEvent(gridId, event, callback)	Set Grid Event
2	fc_getSelectedRow(gridId)	Gets the selected cell. The returned value is an Object with tw o fields: 'rowindex' - the row's bound index and 'datafield' - th e column's datafield.
3	fc_getSelRow(gridId)	Selects a row at a specified index.
4	fc_getGridRecordCount(gridId)	Total Record Count
5	fc_setGridCellLinkStyle(gridId, arrColNm)	Set Link Style (Font Blue and UnderLine)
6	fc_setColProp (gridId, colName, prmName, prmValue)	Sets a property of a column.Possible property names: 'text', 'hi dden', 'hideable', 'renderer', 'cellsrenderer', 'align', 'cellsalign', ' cellsformat', 'pinned', 'contenttype', 'resizable', 'filterable', 'edit able', 'cellclassname', 'classname', 'width', 'minwidth', 'maxwi dth'
7	fc_setCellData(gridId, rowIdx, colName, data)	Set Value
8	fc_getCellData(gridId, rowIdx, colName)	Get Value
9	fc_getRowData(gridId, rowId)	Cell Max Length
10	fc_getRowsData(gridId)	ALL Rows Data
11	fc_getSelectedRowData(gridId)	Checked Rows Data
12	fc_getSelectedRow(gridId)	Checked Rows
13	fc_getSelRow(gridId)	Current Row

http://www.jqwidgets.com/

Events

bindingcomplete	Event
columnresized	Event
columnreordered	Event
columnclick	Event
cellclick	Event
celldoubleclick	Event
cellselect	Event
cellunselect	Event
cellvaluechanged	Event
cellbeginedit	Event
cellendedit	Event
filter	Event
groupschanged	Event
groupexpand	Event
groupcollapse	Event
pagechanged	Event
pagesizechanged	Event
rowclick	Event
rowdoubleclick	Event
rowselect	Event
rowunselect	Event
rowexpand	Event
rowcollapse	Event
sort	Event

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5.3 How to make screen – From Transition Functions

■ JSP: Form Transition Functions

```
/* ------------------------------------------------------------------------------
 * @Name            fc_searchForm
 * @Description     load data to target models
 * @Parameter       object targetFormId : target model object info
 *                  string prmServiceName
 *                  string prmSransitionName
 *                  boolean isNoProgressBar : display progress window
 * @Returns         boolean
 * @Example         fc_searchForm( [ {gridId: 'gridLeftTop', resultKey: 'RK_RESULT1'}, {gridId: 'gridLeftBtm', resultKey: 'RK_RESULT2'}]
 *                              , serviceName, transitionName, true )
 * ------------------------------------------------------------------------------*/
function fc_searchForm( targetFormId, prmKeyResult, prmServiceName, prmTransitionName, isNoProgressBar, prmModule ) {



/* ------------------------------------------------------------------------------
 * @Name             fc_saveForm
 * @Description
 * @param    : srcFormId      - Form Object
 * @param    : prmKeyResult   - addParameter(option)
 * @param    : serviceName    - service name
 * @param    : [transition]   - default : save
 * @param    : [isAddChkName]- Y, N
 * @param    : objMsgShowAttr        - {itemCd:'', show:true/false }
 * @Returns
 * @Example
 * ------------------------------------------------------------------------------ */
function fc_saveForm( arrFormId, addParam, prmServiceName, prmTransitionName, isNoProgressBar, askConfirm, objMsgShowAttr ) {



/* ------------------------------------------------------------------------------
 * @Name           fc_deleteJsonForm
 * @Description
 * @param    : srcFormId     - Form Object
 * @param    : prmKeyResult  - addParameter(option)
 * @param    : serviceName   - service name
 * @param    : [transition]  - default : save
 * @param    : [isAddChkName]- Y, N
 * @param    : [keyList]-   Json type [{"key":"USER_INFO"}]
 * @param    : [sendData]-  Json type {"USER_INFO":[{"JQX_CB":true, "USER_ID":'test111', "PASSWD_CUR":'paaa', "PASSWD":'newpaaa', "PASSWD_RE":'newpaaa',"JQX_RS":"U"}]};
 *              %% must have this attribute key %%  ::  JQX_CB(true), JQX_RS( Insert:I, Update:U, Delete:D )
 * @Returns
 * @Example
 * ------------------------------------------------------------------------------ */
function fc_deleteJsonForm( arrFormId, addParam, prmServiceName, prmTransitionName, isNoProgressBar, askConfirm, keyList, sendData, objMsgShowAttr ) {
```


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5.3 How to make screen – Grid Transition Functions

■ JSP: Grid Transition Functions

```
/* ------------------------------------------------------------------------------
 * @Name            fc_searchGrid
 * @Description     load data to target models
 * @Parameter       array arrTargetModel : target model object info
 *                  string prmServiceName
 *                  string prmSransitionName
 *                  boolean isNoProgressBar : display progress window
 * @Returns         boolean
 * @Example         fc_searchGrid( [ {gridId: 'gridLeftTop', resultKey: 'RK_RESULT1'}, {gridId: 'gridLeftBtm', resultKey: 'RK_RESULT2'}]
 *                              , serviceName, transitionName, true )
 * ------------------------------------------------------------------------------*/
function fc_searchGrid( arrTargetModel, prmServiceName, prmTransitionName, isNoProgressBar, prmModule ) {



/* ------------------------------------------------------------------------------
 * @Name             fc_saveGrid
 * @Description
 * @param    : arrSrcGrid    - Array Grid ID
 * @param    : addParam      - add Parameter { "key1": "value1", "key2": "value2", "key3": "value3" }
 * @param    : prmServiceName       - service name
 * @param    : [prmTransitionName]  - default : save
 * @param    : [isNoProgressBar]    - Y/N
 * @param    : askConfirm]          - Y/N
 * @param    : checkSelected        - Y/N
 * @param    : objMsgShowAttr       - {itemCd:'', show:true/false }
 * @Returns
 * @Example
 * ------------------------------------------------------------------------------ */
function fc_saveGrid( arrSrcGrid, addParam, prmServiceName, prmTransitionName, isNoProgressBar, askConfirm, checkSelected, objMsgShowAttr ) {



/* ------------------------------------------------------------------------------
 * @Name             fc_deleteGrid
 * @Description
 * @param    : arrSrcGrid    - Array Grid ID
 * @param    : addParam      - add Parameter { "key1": "value1", "key2": "value2", "key3": "value3" }
 * @param    : prmServiceName       - service name
 * @param    : [prmTransitionName]  - default : save
 * @param    : [isNoProgressBar]    - true,false
 * @param    : [askConfirm]         - true,false
 * @param    : checkSelected        - Y/N
 * @param    : objMsgShowAttr       - {itemCd:'', show:true/false }
 * @Returns
 * @Example
 * ------------------------------------------------------------------------------ */
function fc_deleteGrid( arrSrcGrid, addParam, prmServiceName, prmTransitionName, isNoProgressBar, askConfirm, checkSelected, objMsgShowAttr ) {
```


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End of Document.

Thank you !!

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