

MAIN PROGRAM

Z_TEST1

```
*&-----*
*& Report  Z_TEST1                               *
*&                                               *
*&-----*
*&                                               *
*&                                               *
*&-----*
```

```
REPORT Z_TEST1
INCLUDE Z_INTRODUCE_WORK.

INCLUDE Z_CHANGE_PROJECT.

INCLUDE Z_REG_TIME_INTERFACES.

INCLUDE Z_REG_TIME_START.

INCLUDE Z_REG_TIME_USER_ACTION.

INCLUDE Z_REG_TIME_BUTTONS.
```

CLASSES

CHANGE-PROJECT

```
*&-----*
*& Include          Z_REG_TIME                     *
*&-----*
*Class Definitions
CLASS change_project DEFINITION.
  PUBLIC SECTION.
    CLASS-METHODS:
      get_dataproject
        IMPORTING i_id_project TYPE z_id_project
        EXPORTING e_name_project TYPE z_name_project,
        update_project
        IMPORTING i_id_project TYPE z_id_project
        i_name_project TYPE z_name_project.
ENDCLASS.                                "change_project DEFINITION

*&-----*
*&      Class (Implementation) change_project     *
*&-----*
*      Text
*-----*

CLASS change_project IMPLEMENTATION.
  METHOD get_dataproject.
    SELECT SINGLE p~name_project
    FROM zproject AS p
    INTO e_name_project
    WHERE p~id_project = i_id_project.
  ENDMETHOD.                                "get_dataproject

  METHOD update_project.
    UPDATE zproject
    SET name_project = i_name_project
    WHERE id_project = i_id_project.
  ENDMETHOD.                                "update_project
ENDCLASS.                                "change_project
```

INTRODUCE_WORK

```

CLASS introduce_work DEFINITION.
  PUBLIC SECTION.
  CLASS-METHODS:
  get_datawork
  IMPORTING i_id_project TYPE z_id_project
            i_id_developer TYPE z_id_developer
            i_working_day TYPE z_date
  EXPORTING e_time TYPE z_hour,
            update_work
  IMPORTING i_id_project TYPE z_id_project
            i_id_developer TYPE z_id_developer
            i_working_day TYPE z_date
            i_time TYPE z_hour.
ENDCLASS.
"introduce_work DEFINITION

```

```

*&-----*
*& Include          Z_INTRODUCE_WORK                *
*&-----*

```

```

CLASS INTRODUCE_WORK IMPLEMENTATION.
  METHOD get_datawork.
  SELECT SINGLE p~id_project
  FROM zwork AS p
  INTO e_time
  WHERE p~id_project = i_id_project AND
        p~id_developer = i_id_developer AND
        p~working_day = i_working_day.
  ENDMETHOD.
"get_datawork
  METHOD update_work.
  UPDATE zwork
  SET time = i_time
  WHERE id_project = i_id_project AND
        id_developer = i_id_developer AND
        working_day = i_working_day.
  ENDMETHOD.
"update_work
ENDCLASS.
"INTRODUCE_WORK IMPLEMENTATION

```

EVENTS

START-OF-SELECTION

```

*&-----*
*& Include          Z_REG_TIME_START                *
*&-----*
START-OF-SELECTION.
CALL SCREEN 100.

```

PBO-MODULES

SET-STATUS

```

*&-----*
*& Include          Z_REG_TIME_BUTTONS              *
*&-----*
MODULE set_status OUTPUT.
  CASE sy-dynnr.
  WHEN 100.
  * SET TITLEBAR 'TIT_100_200'.
  * SET PF-STATUS 'SCREEN_100_200' EXCLUDING 'UPDATE'.
  ENDCASE.
ENDMODULE.
"set_status OUTPUT

```

PAI MODULES

Z_REG_TIMER_USER_ACTION

```
*&-----*
*& Include           Z_REG_TIME_USER_ACTION      *
*&-----*
MODULE z_reg_time_user_action INPUT.
  save_ok = ok_code.
  CLEAR ok_code.
  CASE save_ok.
    WHEN 'UPDATE_PROJECT_'.
      CALL SCREEN 200.
    WHEN 'CANCEL_'.
      CALL SCREEN 100.
    WHEN 'CHANGE_P_'.
      CALL METHOD change_project=>get_dataproject
        EXPORTING
          i_id_project = zproject-id_project
        IMPORTING
          e_name_project = zproject-name_project.
      SET SCREEN 250.
    WHEN 'CANCEL_'.
      CALL SCREEN 100.
    WHEN 'BACK_'.
      CALL SCREEN 200.
    WHEN 'UPDATE_'.
      CALL METHOD change_project=>update_project
        EXPORTING
          i_id_project = zproject-id_project
          i_name_project = zproject-name_project.
      SET SCREEN 100.
    WHEN 'INSERT_PROJECT_'.
      CALL SCREEN 150.
    WHEN 'CANCEL_'.
      CALL SCREEN 100.
    WHEN 'SAVE_P_'.
      INSERT zproject.
      CALL SCREEN 100.
    WHEN 'DELETE_PROJECT_'.
      CALL SCREEN 300.
    WHEN 'DELETE_P_'.
      DELETE zproject.
      CALL SCREEN 100.
    WHEN 'INSERT_DEVELOPER_'.
      CALL SCREEN 350.
    WHEN 'CANCEL_'.
      CALL SCREEN 100.
    WHEN 'SAVE_D_'.
      insert zdeveloper.
      CALL SCREEN 100.
    WHEN 'DELETE_DEVELOPER_'.
      CALL SCREEN 400.
    WHEN 'CANCEL_'.
      CALL SCREEN 100.
    WHEN 'DELETE_D_'.
      delete zdeveloper.
      CALL SCREEN 100.
    WHEN 'WORK!_'.
      CALL SCREEN 450.
    WHEN 'CANCEL_'.
      CALL SCREEN 100.
    WHEN 'SAVE_C_'.
      insert zwork.
      CALL SCREEN 100.
  ENDCASE.
ENDMODULE.                                "z_reg_time_user_action INPUT
```

INCLUDES

Z_CHANGE_PROJECT

```

*&-----*
*& Include          Z_REG_TIME                               *
*&-----*
*Class Definitions
CLASS change_project DEFINITION.
  PUBLIC SECTION.
    CLASS-METHODS:
      get_dataproject
      IMPORTING i_id_project TYPE z_id_project
      EXPORTING e_name_project TYPE z_name_project,
      update_project
      IMPORTING i_id_project TYPE z_id_project
      i_name_project TYPE z_name_project.
ENDCLASS.                                "change_project DEFINITION

*&-----*
*&      Class (Implementation) change_project                *
*&-----*
*      Text
*-----*
CLASS change_project IMPLEMENTATION.
  METHOD get_dataproject.
    SELECT SINGLE p~name_project
    FROM zproject AS p
    INTO e_name_project
    WHERE p~id_project = i_id_project.
  ENDMETHOD.                                "get_dataproject

  METHOD update_project.
    UPDATE zproject
    SET name_project = i_name_project
    WHERE id_project = i_id_project.
  ENDMETHOD.                                "update_project
ENDCLASS.                                "change_project

```

Z_INTRODUCE_WORK

```

*&-----*
*& Include          Z_INTRODUCE_WORK                         *
*&-----*
*Class Definitions
CLASS introduce_work DEFINITION.
  PUBLIC SECTION.
    CLASS-METHODS:
      get_datawork
      IMPORTING i_id_project TYPE z_id_project
      i_id_developer TYPE z_id_developer
      i_working_day TYPE z_date
      EXPORTING e_time TYPE z_hour,
      update_work
      IMPORTING i_id_project TYPE z_id_project
      i_id_developer TYPE z_id_developer
      i_working_day TYPE z_date
      i_time TYPE z_hour.
ENDCLASS.                                "introduce_work DEFINITION

*&-----*
*& Include          Z_INTRODUCE_WORK                         *
*&-----*
CLASS INTRODUCE_WORK IMPLEMENTATION.
  METHOD get_datawork.
    SELECT SINGLE p~id_project
    FROM zwork AS p
    INTO e_time
    WHERE p~id_project = i_id_project AND
      p~id_developer = i_id_developer AND
      p~working_day = i_working_day.
  ENDMETHOD.                                "get_datawork
  METHOD update_work.
    UPDATE zwork
    SET time = i_time

```

```

        WHERE id_project = i_id_project AND
              id_developer = i_id_developer AND
              working_day = i_working_day.
ENDMETHOD.          "update_work

```

Z_REG_TIME_BUTTONS

```

*&-----*
*& Include          Z_REG_TIME_BUTTONS          *
*&-----*
MODULE set_status OUTPUT.
  CASE sy-dynnr.
    WHEN 100.
      * SET TITLEBAR 'TIT_100_200'.
      * SET PF-STATUS 'SCREEN_100_200' EXCLUDING 'UPDATE'.
  ENDCASE.
ENDMODULE.          "set_status OUTPUT

```

Z_REG_TIME_INTERFACES

```

*&-----*
*& Include          Z_REG_TIME_INTERFACES      *
*&-----*
save_ok TYPE sy-ucomm.

```

Z_REG_TIME_START

```

*&-----*
*& Include          Z_REG_TIME_START          *
*&-----*
START-OF-SELECTION.
CALL SCREEN 100.

```

Z_REG_TIME_USER_ACTION

```

*&-----*
*& Include          Z_REG_TIME_USER_ACTION    *
*&-----*
MODULE z_reg_time_user_action INPUT.
  save_ok = ok_code.
  CLEAR ok_code.
  CASE save_ok.
    WHEN 'UPDATE_PROJECT_'.
      CALL SCREEN 200.
    WHEN 'CANCEL_'.
      CALL SCREEN 100.
    WHEN 'CHANGE_P_'.
      CALL METHOD change_project=>get_dataproject
        EXPORTING
          i_id_project = zproject-id_project
        IMPORTING
          e_name_project = zproject-name_project.
      SET SCREEN 250.
    WHEN 'CANCEL_'.
      CALL SCREEN 100.
    WHEN 'BACK_'.
      CALL SCREEN 200.
    WHEN 'UPDATE_'.
      CALL METHOD change_project=>update_project
        EXPORTING
          i_id_project = zproject-id_project

```

```

        i_name_project = zproject-name_project.
    SET SCREEN 100.
    WHEN 'INSERT_PROJECT_'.
        CALL SCREEN 150.
    WHEN 'CANCEL_'.
        CALL SCREEN 100.
    WHEN 'SAVE_P_'.
        INSERT zproject.
        CALL SCREEN 100.
    WHEN 'DELETE_PROJECT_'.
        CALL SCREEN 300.
    WHEN 'DELETE_P_'.
        DELETE zproject.
        CALL SCREEN 100.
    WHEN 'INSERT_DEVELOPER_'.
        CALL SCREEN 350.
    WHEN 'CANCEL_'.
        CALL SCREEN 100.
    WHEN 'SAVE_D_'.
        insert zdeveloper.
        CALL SCREEN 100.
    WHEN 'DELETE_DEVELOPER_'.
        CALL SCREEN 400.
    WHEN 'CANCEL_'.
        CALL SCREEN 100.
    WHEN 'DELETE_D_'.
        delete zdeveloper.
        CALL SCREEN 100.
    WHEN 'WORK!_'.
        CALL SCREEN 450.
    WHEN 'CANCEL_'.
        CALL SCREEN 100.
    WHEN 'SAVE_C_'.
        insert zwork.
        CALL SCREEN 100.
ENDCASE.

```

WEBPAGES

Index.htm

----- Layout -----

```

<%@page language="abap" %>
<html>
  <head>
    <link rel="stylesheet" href="sap_project_web.css">
    <title> SAP PROJECT MANAGER </title>
  </head>

  <body class="bspBody1">
    <CENTER>
      <H2> Hello <%= name %> </H2>
      <BR>
      <H2> welcome to the registration time system</H2>
      <A href="info.htm">
        
      </A>
      <BR>
      <br>
      <a href="info.htm"> Click on the image or this text to continue
    </a>
    </CENTER>
  <br>
  <br>
  <br>
</center>

```

```

</center>
<br>
<br>
<br>
<h4> SAP WEB APPLICATIONS </h4>
  <ul>
    <li> <a href="mailto:2001497@uv.vitusbering.dk">Myrto
Kouroglou</a></li>
    <li> <a href="mailto:2001501@uv.vitusbering.dk">Andrea Foieri</a></li>
    <li> <a href="mailto:530108@uv.vitusbering.dk">Jesus Vitales
Martin</a></li>
    <li> <a href="mailto:530107@uv.vitusbering.dk">Nuria Monne
Perez</a></li>
  </ul>

  </body>
</html>

```

----- **Event Handler (onInitalization)** -----

```

* event handler for data retrieval

DATA: lv_name TYPE Z_NAME_DEVELOPER.

SELECT SINGLE NAME_DEVELOPER
FROM ZDEVELOPER
INTO lv_name
WHERE name_developer = 'JESUS'.

name = sy-uname.

```

Info.htm

----- **Layout** -----

```

<%@page language="abap" %>
<html>
<head>
  <link rel="stylesheet" href="sap_project_web.css">
  <title> SAP PROJECT MANAGER -- Jesus, Myrto, Andrea & Nuria</title>
</head>
<body>

<!-- including header -->
  <%@include file="header.htm" %>

<!-- including navigation menu -->
  <%@include file="navigation.htm" %>

<!-- including information -->
  <%@include file="information.htm" %>

<!-- including search field -->
  <%@include file="search.htm" %>

<!-- including footer -->
  <%@include file="footer.htm" %>

</body>
</html>

```

----- **Event Handler (onInitalization)** -----

* event handler for data retrieval

```
*SELECT *
*FROM ZWORK
*JOIN ZDEVELOPER
*ON ZWORK.ID_DEVELOPER = ZDEVELOPER.ID_DEVELOPER;
```

name = sy-uname.

```
SELECT ZWORK~ID_DEVELOPER ZDEVELOPER~NAME_DEVELOPER
ZWORK~ID_PROJECT ZPROJECT~NAME_PROJECT ZWORK~TIME ZWORK~WORKING_DAY
FROM ZWORK
JOIN ZDEVELOPER
ON ZWORK~ID_DEVELOPER = ZDEVELOPER~ID_DEVELOPER
JOIN ZPROJECT
ON ZWORK~ID_PROJECT = ZPROJECT~ID_PROJECT
INTO TABLE itab_result.
```

```
*DATA: itab_result TYPE t_test_work.
*wa_result TYPE s_test_work.
```

----- Event Handler (onInputProcessing) -----

* event handler for checking and processing user input and
* for defining navigation

* Select to get the values of the form.

```
SELECT SINGLE ID_PROJECT NAME_PROJECT
FROM ZPROJECT
INTO (idproj, nameproj)
WHERE ID_PROJECT = t_project.
```

----- Type Definitions -----

*BSP-global type definition

*structure

types: begin of s_test_work,

iddev	type	z_id_developer,
namedev	type	z_name_developer,
idproj	type	z_id_project,
nameproj	type	z_name_project,
tim	type	z_hour,
work	type	z_date,

end of s_test_work,

* table type

t_test_work type table of s_test_work.

Header.htm

```
<%@page language="ABAP" %>
<html>
  <head>
    <link rel="stylesheet" href="sap_project_web.css">
  </head>

  <body class="bspBody1">
<CENTER>
```

```

<table width="100%" class="header">
  <tr class="header">
    <td align="center">
      
    </td>
    <td align="center">
      <center><h2>PROJECT MANAGER</h2></center>
    </td>
    <td align="center">
      web application
    </td>
  </tr>
</table>

</CENTER>
</body>
</html>

```

Navigation.htm

```

<%@page language="ABAP"%>
<html>
<body>
  <center>
    <table class="button" width=" 100% ">
      <tr class="button" width="100%">
        <td align="center" width="10%">
          <a href="create.html">&lt;CREATE&gt;</a>
        </td>
        <td align="center" width="10%">
          <a href="delete.html">&lt;DELETE&gt;</a>
        </td>
        <td align="center" width="10%">
          <a href="update.html">&lt;UPDATE&gt;</a>
        </td>
        <td align="center" width="10%">
          <a href="list.html">&lt;PROJECT LIST&gt;</a>
        </td>
        <td align="center" width="10%">
          <a href="statistics.html">&lt;STATISTICS&gt;</a>
        </td>
        <td align="center" width="10%">
          <a href="print.html">&lt;PRINT&gt;</a>
        </td>
        <td align="center" width="10%">
          <a href="personal_info.html">&lt;PERSONAL INFO&gt;</a>
        </td>
      </tr>
    </table>
  </center>
</body>
</html>

```

Information.htm

```

<%@page language="ABAP" %>
<html>
<body>
<center>
  <table border="1" bgcolor="white">
    <tr>
      <th class="graum" align="center">
        ID_PROJECT

```

```

        </th>
        <th class="graum" align="center">
            NAME_PROJECT
        </th>
        <th class="graum" align="center">
            ID_DEVELOPER
        </th>
        <th class="graum" align="center">
            NAME_DEVELOPER
        </th>
        <th class="graum" align="center">
            DATE
        </th>
        <th class="graum" align="center">
            HOURS
        </th>
    </tr>

<% LOOP AT itab_result INTO wa_result.%>

    <tr>
        <td class="hgrau" align="center">
            <%= wa_result-idproj %>
        </td>
        <td class="hgrau" align="center">
            <%= wa_result-nameproj %>
        </td>
        <td class="hgrau" align="center">
            <%= wa_result-iddev %>
        </td>
        <td class="hgrau" align="center">
            <%= wa_result-namedev%>
        </td>
        <td class="hgrau" align="center">
            <%= wa_result-tim %>
        </td>
        <td class="hgrau" align="center">
            <%= wa_result-work %>
        </td>
    </tr>
<% ENDLLOOP.%>

</center>

</body>
</html>

```

Search.htm

```

<%@page language="ABAP"%>

<html>
<body>
<br>
    <form name="search">
        Insert project id:
        <input type="text" name="t_project" value="<%= idproj %>" size="1" >
        <input type="submit" name="onInputProcessing(search)" value="Search">
    </form>

<br>

<center>
<br>
    <table border="1" bgcolor="white">
        <tr>
            <th>Project id</th><th>Project name</th>
        </tr>
        <tr>

```

```
                <td align="center"><%= idproj %></td><td align="center"><%=
nameproj %></td>
            </tr>
        </table>
    </center>

</body>
</html>
```

Footer.htm

```
<%@page language="ABAP"%>
<html>
<body>
<br>
    <p> You are logged on as: <%= name %> </p>
<br>
</body>
</html>
```

sap_project_web.css

```
/* style for whole document */

    body{font-family:verdana; background-color:gainsboro; font-size:12pt;
color:black}

    h2 {font-size:18pt}

a: link{color:blue}
a: visited{color: red}

/* style for classes */

.header {border: none; color:white; padding: 0px 0px 0px 0px; background-color:black}

    .button {border:none; font-size: 10pt; color:white;
background-color:navy; text-align:center;
padding:0px 0px 0px 0px }

    .button a:link {color:white}
    .button a:visited {color:white}
```