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Platform	S60 5th Edition	Tested on devices	Nokia 5800 XpressMusic
Category	Web Runtime (WRT)	Subcategory	PIM

Keywords (APIs, classes, methods, functions): device.getServiceObject(), Service.Contact.GetList()

Overview

This code snippet shows how to retrieve contacts information using the Contact Platform Service for S60 Web Runtime introduced in S60 5th Edition.

To obtain access to the service object for the Contact Service API, the `device.getServiceObject("Service.Contact", "IDataSource")` method is used.

After setting the correct values for the criteria object (`criteria.Type` and `criteria.Filter`), the `IDataSource.GetList(criteria)` method is used to retrieve information.

Source: phonebook.html

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
    <script type="text/javascript" src="phonebook.js" />
    <title></title>
  </head>
  <body onload="init()">
    <!-- input field for search string -->
    <input id="searchstring" type="text"></input>
    <input type="button" value="Search" onclick="doRefresh();"></input>
    <!-- Table for displaying contacts info -->
    <table id="maintable" cellspacing=1 cellpadding=1 border=1 cols=4>
      <tr>
        <th>Firstname</th>
        <th>Lastname</th>
        <th>Phone</th>
        <th>Email</th>
      </tr>
```

```

        </table>
    </body>
</html>

```

Source: phonebook.js

```

// contacts system service object
var phonebook;
// system error code
var NO_ITEMS_ERROR_CODE = 1012;

/**
 * Setting default data on application load
 */
function init() {
    // getting contacts system service object
    try {
        phonebook = device.getServiceObject("Service.Contact", "IDataSource");
    } catch(err) {
        alert( "No Contact service available" );
        return;
    }

    // Refreshing info
    doRefresh();
}

/**
 * function refreshes information in table
 */
function doRefresh() {
    // Criteria object for making a GetList call to receive
    // contacts information
    var criteria = new Object();
    criteria.Type = 'Contact';

    var searchString = document.getElementById('searchstring').value;
    if(searchString != "") {
        // if we have some search string add search parameter to criteria
        criteria.Filter = new Object();
        criteria.Filter.SearchVal = searchString;
    }

    // making a call to service to receive a list of suitable items
    try {
        contacts = phonebook.IDataSource.GetList(criteria);
    } catch(err) {
        alert( "Error retrieving contacts information" );
        return;
    }

    // receiving a handle to table to display info
    var table = document.getElementById('maintable');
    // cleaning table and adding header
    while(table.rows[0] != undefined) {
        table.deleteRow(0);
    }
    table.insertRow(0);
    table.rows[0].innerHTML = "<th>Firstname</th><th>Lastname</th>" +
        "<th>Phone</th><th>Email</th>";
}

```

Source: phonebook.html

CS001235_-_Retrieving_contacts_info_in_WRT

```
// looking for error code returned by GetList
if(contacts.ErrorCode != 0) {
    // If error code is not "no suitable items", show alert.
    // Otherwise leave the function.
    if(contacts.ErrorCode != NO_ITEMS_ERROR_CODE) {
        alert(contacts.ErrorMessage);
    }
    return;
} else {
    // filling table with received data
    var table = document.getElementById('maintable');
    var i; // iterator
    var item; // pointer to item in received list
    for(i = 0;
        (item = contacts.ReturnValue.getNext()) != undefined;
        ++i) {
        table.insertRow(i + 1);
        var result = "<td>";
        if(item.FirstName != undefined) {
            result += item.FirstName.Value;
        }
        result += "</td><td>";
        if(item.LastName != undefined) {
            result += item.LastName.Value;
        }
        result += "</td><td>";
        if(item.MobilePhoneGen != undefined) {
            result += item.MobilePhoneGen.Value;
        }
        result += "</td><td>";
        if(item.EmailGen != undefined) {
            result += item.EmailGen.Value;
        }
        result += "</td>";
        table.rows[i + 1].innerHTML = result;
    }
}
}
```

Postconditions

- Shows a table with all contacts.
- Typing text in the input field and pressing the "Search" button will update the information in the table, showing only items that are returned by standard search (that have common letters in first name or last name).

Supplementary material

You can view the source file and executable application in the attached ZIP archive. The archive is available for download at [Media:Retrieving_contacts_info_in_WRT.zip](#).