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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(), Service.Contact.Delete()

Overview

This code snippet shows how to remove contacts from the phone book using the Contacts 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.

Method `IDataSource.Delete(criteria)` is used to remove contacts.

Source: phonebookrem.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="phonebookrem.js" />
    <title></title>
  </head>
  <body onload="init()">
    <!-- Table for displaying contacts info -->
    <table id="maintable" cellpadding=1 cellspacing=1 border=1 cols=4>
      <tr>
        <th>D</th>
        <th>Firstname</th>
        <th>Lastname</th>
        <th>Phone</th>
      </tr>
    </table>
  </body>
</html>
```

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```
        <th>Email</th>
    </tr>
</table>
    <input type="button" value="Remove selected" onclick="doRemove();" />
</body>
</html>
```

Source: phonebookrem.js

```
// contacts system service object
var phonebook;
// IDs of contacts to be removed
var ids = new Array();
// 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';

    // 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>D</th><th>Firstname</th>" +
        "<th>Lastname</th><th>Phone</th><th>Email</th>";

    // looking for error code returned by GetList
```

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```
if(contacts.ErrorCode != 0) {
    // If error code is not "no suitable items", show alert.
    // Otherwise just leave the function.
    if(contacts.ErrorCode != NO_ITEMS_ERROR_CODE) {
        alert(contacts.ErrorMessage);
    }
    return;
} else {
    // filling table with received data and adding checkboxes into the
    // first columns
    var i; // iterator
    var item; // pointer to item in received list
    for(i = 0;
        (item = contacts.ReturnValue.getNext()) != undefined;
        ++i) {
        table.insertRow(i + 1);
        ids[i + 1] = item.id;
        var result = "<td><input name=\"check\" +
            \" \" type=\"checkbox\"></input></td><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;
    }
}

/**
 * function removes selected items from the contacts list
 */
function doRemove( ) {
    // criteria object for deleting contacts
    var criteria = new Object();
    criteria.Type = 'Contact';
    criteria.Data = new Object();
    criteria.Data.IdList = new Array();
    var action = false;
    var table = document.getElementById('maintable');
    var count = table.rows.length;
    var iterator = 0;
    // filling criteria IdList with item ids to delete (according to marked
    // checkboxes)
    for (var i = 1; i < count; i++) {
        if (table.rows[i].cells[0].childNodes[0].checked == true) {
            action = true;
            criteria.Data.IdList[iterator++] = ids[i];
        }
    }
    // if there are marked checkboxes delete items
}
```

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```
if (action) {
    try {
        var result = phonebook.IDataSource.Delete(criteria);
    } catch(err) {
        alert( "Error removing data" );
        return;
    }
}
// update info in table
doRefresh();
}
```

Postconditions

- The application shows a table with all contacts. Each row contains a checkbox.
- Mark some of the checkboxes and select "Remove contacts" to remove the checked items from the phone book.

Supplementary material

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

See also

- [CS001235 - Retrieving contacts info in WRT](#)
- [CS001238 - Adding contact in WRT](#)