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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.Add()

Overview

This code snippet shows how to edit contacts in the phone book 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.Data`) and setting `criteria.Data.id`, the `IDataSource.Add(criteria)` method is used for updating contact information.

Method `IDataSource.GetList(criteria)` is used for retrieving existing contacts.

Source: phonebookedit.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="phonebookedit.js" />
    <title></title>
  </head>
  <body onload="init()">
    <input id="searchstring" type="text"></input>
    <input type="button" value="Search" onclick="doRefresh();" />

    <form id="inputform" action="ddd">
      First Name: <input id="firstname" type="text"></input><br />
      Last Name: <input id="lastname" type="text"></input><br />
    </form>
  </body>
</html>
```

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```
    Phone number: <input id="phonenumber" type="text"></input><br />
    E-Mail: <input id="email" type="text"></input><br />
    <input type="button" value="Update" onclick="doUpdate();" />
  </form>
</body>
</html>
```

Source: phonebookedit.js

```
// contacts system service object
var phonebook;
// selected item id
var id;

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;
    }
    // setting default id as illegal
    id = -1;
}

/**
 * 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;
    }

    var contacts = 0;
    // 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;
    }

    if(contacts.ErrorCode != 0) {
        // If error code is not "no suitable items", show alert.
        if(contacts.ErrorCode != NO_ITEMS_ERROR_CODE) {
            alert( contacts.ErrorMessage );
        }
    }
}
```

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```
    }
    // if no items found set id as illegal
    id = -1;
    return;
} else {
    var item = contacts.ReturnValue.getNext();
    id = item.id;
    var inputForm = document.getElementById("inputform");
    if(item.FirstName != undefined) {
        inputForm.firstname.value = item.FirstName.Value;
    }
    if( item.LastName != undefined ) {
        inputForm.lastname.value = item.LastName.Value;
    }
    if( item.MobilePhoneGen != undefined ) {
        inputForm.phonenumber.value = item.MobilePhoneGen.Value;
    }
    if( item.EmailGen != undefined ) {
        inputForm.email.value = item.EmailGen.Value;
    }
}
}

/**
 * function updates information in the addressbook
 */
function doUpdate() {
    if (id == -1) {
        alert( "Choose an item first" );
        return;
    }

    var criteria = new Object();
    criteria.Type = 'Contact';
    criteria.Data = new Object();

    var inputForm = document.getElementById("inputform");

    // demanding first name, but that is not essential
    if(inputForm.firstname.value == "") {
        alert( "You should input firstname" );
        return;
    }

    // set id of item to update
    criteria.Data.id = id;
    // adding First Name parameter to new item
    criteria.Data.FirstName = new Object();
    criteria.Data.FirstName.Value = inputForm.firstname.value;
    // adding other parameters if present
    if( inputForm.lastname.value != "" ) {
        criteria.Data.LastName = new Object();
        criteria.Data.LastName.Value = inputForm.lastname.value;
    }
    if( inputForm.phonenumber.value != "" ) {
        criteria.Data.MobilePhoneGen = new Object();
        criteria.Data.MobilePhoneGen.Value = inputForm.phonenumber.value;
    }
    if( inputForm.email.value != "" ) {
        criteria.Data.EmailGen = new Object();
        criteria.Data.EmailGen.Value = inputForm.email.value;
    }
}
```

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```
var contacts;
// updating item
try {
    contacts = phonebook.IDataSource.Add( criteria );
} catch(err) {
    alert( "error updating data" );
    return;
}

// looking for error code returned
if( contacts.ErrorCode != 0 ) {
    // show alert
    alert( contacts.ErrorMessage );
    return;
}
alert( "Item updated" );
}
```

Postconditions

- After loading, displays a form to fill.
- "Show" shows the contact specified by the search string.
- "Update" updates the edited item.

Supplementary material

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

See also

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