



CubiMobileSupport

Cubi mobile web app support

Phase-Implementation

Updated Nov 5, 2012 by [rockys...@gmail.com](#)

Introduction

Openbiz Cubi fully supports mobile smarty phone browsers. On a mobile browser, Cubi application will adapt the UI to mobile theme on top of jQueryMobile! Cubi mobile is tested with iPhone and Android browsers.

Mobile Touch Theme

After install Cubi on your web server, you can hit the server from your iPhone or Android browser. The Cubi application will give you mobile touch screen experience.

Login Page

Registration Page

Contact List Page

Menu

Contacts - Cubi ...

Contact Phone Book

🔍 Name

Admin, System Id: 1

Email: admin@gmail.com

Cell: 2928092112

Type: Colleague

William, Smith Id: 6

Email: william.smith@gmail.com

Cell: 323-456-9012

Type: Provider

Cassy, Chang Id: 7

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Email: aaa@gmail.com

Cell:

Type: Colleague

Jack, Lee Id: 9

Email: cubi-admin@gmail.com

Cell: +13618091231

Type: Colleague

Jixian, Wang Id: 5

Email: jixianwang@gmail.com

Cell: 3239019012

Type: Potential Client

+ Contact < Prev Next >

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Contact Detail Page

Menu

Contact Detail - ...

Contact Details

+ Profile

+ Phone

+ Address

+ Online Contact

⏪ Back ⚙ Edit

⏪ ⏩ + 📖 3

Menu

Contact Detail - ...

Contact Details

- Profile

Firstname

William

Lastname

Smith

Company

FDBL

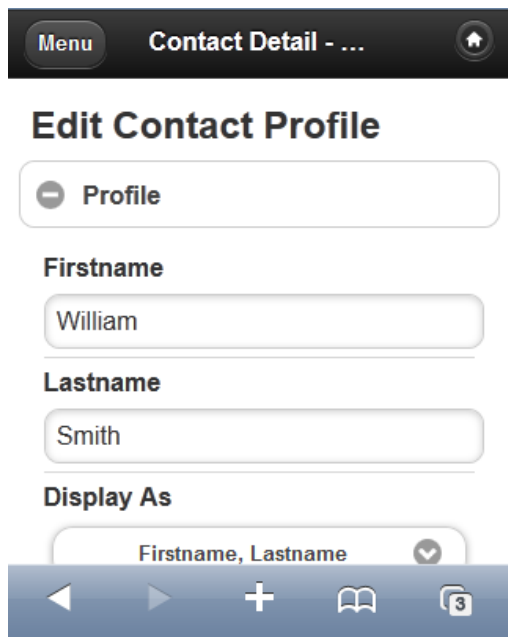
Department

Position

+ Phone

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Contact Edit Page



Enable Mobile Support for a Module

In order to support mobile browser per a module, we suggest create a separate module with a post-fix as *"mob"*. For example *"contact_mob"* is the mobile version of *"contact"* module. Usually a mobile version module has only UI related directories including

- *form*
- *template*
- *view*
- *widget*

Its forms can use the data objects defined in original module. That means *"contact_mob"* form's DataObject is *contact.do.ContactDO* that defined in *"contact"* module.

Touch Theme

If you hit the cubi application with mobile browser, the server will use touch theme by default to render the page back to browser.

The touch theme is added under */cubi/themes/*. The code to pick touch theme can be found in *cubi/bin/app_init.php*

```
if (DeviceUtil::$PHONE_TOUCH) define('DEFAULT_THEME_NAME','touch');    // default theme for touch screen phone
else define('DEFAULT_THEME_NAME', 'default');    // name of the theme. theme files are under themes/theme_name
```

Limit the Functions in Mobile Module

Practically, users only use read and search data from the mobile devices. So the mobile module should have much less features than the full version module.

On a list form, the mobile version would make the following changes

- Have less fields in the Data Panel
- Empty buttons in Action Panel
- Have "Add", "Prev" and "Next" buttons in Nav Panel
- Leave only search input in Search Panel

List Form Changes

List Form in mobile module changes to a real list view instead of a data grid.

```
<DataPanel>
  <Element Name="fld_Id" Class="LabelText" Hidden="Y" FieldName="Id" Label="ID"/>
  <Element Name="fld_display_name" Class="LabelText" FieldName="display_name" Label="Contact Name" CssClass="ui-li-headi
  <Element Name="fld_email" Class="LabelText" FieldName="email" Label="Email" Text="Email: {@:Elem[fld_email].value}" Cs
  <Element Name="fld_mobile" Class="LabelText" FieldName="mobile" Label="Mobile" Text="Cell: {@:Elem[fld_mobile].value
  <Element Name="fld_type" Class="LabelText" FieldName="type_name" Label="Type" Text="Type: {@:Elem[fld_type].value}" C
  <Element Name="fld_Id_side" Class="LabelText" FieldName="Id" Label="ID" Text="Id: {@:Elem[fld_Id_side].value}" CssClas
  <Element Name="fld_listlink" Class="LabelText" Label="ListLink" Link="{APP_INDEX}/contact_mob/contact_detail/{@:Elem[f
</DataPanel>
```

A mobile list row typically includes

- a heading line
- several description lines
- an arrow at the right-most of a row
- an optional text at the right side of a row
- an optional icon or thumbnail at the left side of a row

From the above sample xml, we can see

- it uses CssClass "ui-li-heading" and "ui-li-desc" to indicate heading or description line.
- a special element "fld_listlink" defines the target link when a list item is selected.
- "ui-li-aside" is used to position a text to the right side.

<http://jquerymobile.com/test/docs/lists/docs-lists.html> provides more details of mobile list view

Button Element Changes

A mobile enabled button usually needs to

- add DataRole="button"
- add HTMLAttr="data-inline='true' data-icon='icon_name' data-iconpos='pos_name'".

Back/Cancel button

```
<Element Name="btn_back" Class="Button" Text="Back" DataRole="button" HTMLAttr="data-inline='true' data-icon='back'">
  <EventHandler Name="back_onclick" Event="onclick" Function="js:history.go(-1)"/>
</Element>
```

Save button

```
<Element Name="btn_save" Class="Button" Text="Save" DataRole="button" HTMLAttr="data-inline='true' data-icon='check'" >
  <EventHandler Name="save_onclick" Event="onclick" EventLogMsg="" Function="UpdateRecord()" RedirectPage="form=contac
</Element>
```



Add button

```
<Element Name="lnk_new" Class="Button" Text="Contact" DataRole="button" HTMLAttr="data-inline='true' data-icon='plus'" Des
  <EventHandler Name="lnk_new_onclick" Event="onclick" EventLogMsg="" Function="SwitchForm(contact_mob.form.ContactNewF
</Element>
```



Paging buttons

```
<Element Name="btn_prev" Class="Button" Enabled="{(@:m_CurrentPage == 1)?'N':'Y'}" Text="Prev" DataRole="button" HTMLAttr=
  <EventHandler Name="prev_onclick" Event="onclick" Function="GotoPage({@:m_CurrentPage - 1})"/>
</Element>
<Element Name="btn_next" Class="Button" Enabled="{(@:m_CurrentPage == @:m_TotalPages )?'N':'Y'}" Text="Next" DataRole="but
  <EventHandler Name="next_onclick" Event="onclick" Function="GotoPage({@:m_CurrentPage + 1})"/>
</Element>
```



Search Element change

To save space, a mobile page prefer single search box. Considering a normal search panel of a form has search input box and a search button, the mobile version will combine them into one search box.

```
<Element Name="qry_name" Class="InputText" FieldName="display_name" FuzzySearch="Y" HTMLAttr="type=search placeholder='Na
  <EventHandler Name="search_onchange" Event="onchange" Function="RunSearch()" ShortcutKey="Enter"/>
</Element>
```



Add Device Support

Currently Cubi recognizes iOS and Android devices by checking the user-agent http header. In order to add a device for mobile support, you can modify get_device_info() function in /cubi/bin/device_util.php.

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