

User Interface - Bug #4942

Embedded web client doesn't work for Hotel GUI

10/05/2020 06:14 AM - Adrian Lungu

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Adrian Lungu	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		case_num:	
billable:	No		
vendor_id:	GCD		
Description			

History

#1 - 10/06/2020 06:09 AM - Adrian Lungu

I checked some older revisions of 3821c in order to find which one triggered the bug. I should note that the latest 3821c revision (11670) is not yet fixing the bug. There are two relevant revisions:

1. From rev. 11588, the legacy frames are not responding. Although the widgets are visible, any keyboard or mouse actions (with some exceptions like scroll bar usage) are not handled.
2. From rev. 11619, the legacy frames are not displayed at all.

Both revisions are referring to the same optimization: packing multiple booleans into one single integer, in order to optimize externalization. I don't understand yet why this should be a problem for the embedded web client. Investigating.

#2 - 10/06/2020 07:28 AM - Adrian Lungu

I added the fix from rev. 11619 straight to the 11588 revision and tested. It seems like the embedded web client starts working. This means that there is another relevant revision which caused the embedded web client not to work (somewhere between 11588 and 11619). I will continue searching for the responsible revision.

#3 - 10/06/2020 09:17 AM - Adrian Lungu

I could restrict the searching scope somewhere around 11600..11608 revisions. The most of the intermediary revisions don't work with the embedded web client (NPE, errors or stuck on loading). Revision 11601 is the last revision working correctly and 11608 is the first revision which works afterwards (however incorrectly). Most of the revisions in between are related to the batching of widget configurations.

Curiously, having enabled or disabled the batching parameter will result in the same behavior. This means that there is another factor that may have caused this bug or the fact that disabling the batching is not sound. Investigating further.

#4 - 10/07/2020 06:32 AM - Adrian Lungu

The root of the bug is related to FWD's specific disable-redraw. Commenting out the disable-row statements from fwd-embedded-driver.p (4 statements grouped in two blocks) will allow the embedded web client to work properly. This may be related to the changes on GenericWidget.setAttr. Debugging disable-redraw statement.

The first disable-redraw block is rather consistent. The second one is shorter and I think is incorrect:

```
hwin:disable-redraw = true.  
  
tbhandle = get-toolbar-frame(phandle, hwin, hframe).  
  
/* do this before anything else */  
create fwd-embedded-window.  
fwd-embedded-window.pname = pfile.  
fwd-embedded-window.phandle = phandle.  
fwd-embedded-window.menubar = hwin:menubar.  
fwd-embedded-window.toolbar = tbhandle.  
fwd-embedded-window.isAdm2 = (admVersion >= "ADM2.2").  
fwd-embedded-window.pages = false.  
  
run initEmbeddedWindow(hwin).  
hwin:disable-redraw = true. // the redraw should have been enabled
```

The correction on the second block is not enough.

#5 - 10/07/2020 08:20 AM - Greg Shah

Hynek/Constantin: Please review.

#6 - 10/07/2020 08:24 AM - Adrian Lungu

The bug was fixed in 3821c. rev. 11675. `GenericWidget.pushWidgetAttr` is overridden in several other widgets (children classes), but the aborting condition in `GenericWidget.setAttr` is unique: `deleted || frame == null || frame.isInsideSetup()`. However, `WindowWidget.pushWidgetAttr` for example is aborted by a shorter condition: `deleted`. The committed revision makes sure that the condition used is dependent upon the current widget.

Currently, the embedded web client is working with 3821c. rev. 11675 and `hotel_gui` rev. 222.

#7 - 10/07/2020 08:24 AM - Adrian Lungu

- Status changed from WIP to Review

- % Done changed from 0 to 100

#8 - 10/07/2020 08:26 AM - Adrian Lungu

Please review only [#4942-6](#) (3821c/11675), as the previous comments are just part of the bug hunting process.

#9 - 10/07/2020 09:12 AM - Greg Shah

- Status changed from Review to Closed

Nice!

#10 - 10/07/2020 11:51 AM - Constantin Asofiei

Adrian Lungu wrote:

The bug was fixed in 3821c. rev. 11675. `GenericWidget.pushWidgetAttr` is overridden in several other widgets (children classes), but the aborting condition in `GenericWidget.setAttr` is unique: `deleted || frame == null || frame.isInsideSetup()`. However, `WindowWidget.pushWidgetAttr` for example is aborted by a shorter condition: `deleted`. The committed revision makes sure that the condition used is dependent upon the current widget.

Currently, the embedded web client is working with 3821c. rev. 11675 and `hotel_gui` rev. 222.

I'm OK with the changes.