

User Interface - Bug #3267

same field referenced twice in a frame

03/16/2017 12:18 PM - Greg Shah

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|------------------------|--------|------------------------|-----------|
| Status: | New | Start date: | |
| Priority: | Normal | Due date: | |
| Assignee: | | % Done: | 0% |
| Category: | | Estimated time: | 0.00 hour |
| Target version: | | case_num: | |
| billable: | No | version: | |
| vendor_id: | GCD | | |
| Description | | | |

History

#1 - 03/16/2017 12:21 PM - Greg Shah

The following code causes duplication in the converted Java code:

```
form book.isbn isbn with frame ff2.  
  
find first book.  
display book.isbn isbn with frame ff2.
```

There are two references here to the same field, one is qualified and the other is not.

See testcases/uast/duplicated_field_reference.p. It depends on the test database, but probably can be recreated with temp-tables.

From Constantin:

This produces duplicate field references if DISPLAY book.isbn isbn is used, and also field-related metadata (like setTable and setDbname) are emitted twice in the FWD frame definition.

The problem is that in these cases the "name" annotation is emitted as "book.isbn" and "isbn" - is not the same, and the frame logic assumes the "name" annotation is unique.

This is somewhere deep in the SymbolResolver, where it produces a Variable instance with the name as specified at the node's text, and no disambiguation is done.

#3 - 03/16/2017 02:37 PM - Constantin Asofiei

The problem is that we have duplicated code like this at the frame definition:

```
isbn.setDbname("p2j_test");
isbn.setTable("book");
isbn.setDataType("character");
isbn.setDbname("p2j_test");
isbn.setTable("book");
```

and for this:

```
display ttl.f1 f1 with frame ff1.
display book.isbn isbn with frame ff2.
```

we get this:

```
FrameElement[] elementList0 = new FrameElement[]
{
    new Element(new FieldReference(ttl, "f1"), ff1Frame.widgetF1()),
    new Element(new FieldReference(ttl, "f1"), ff1Frame.widgetF1())
};

ff1Frame.display(elementList0);

FrameElement[] elementList1 = new FrameElement[]
{
    new Element(new FieldReference(book, "isbn"), ff2Frame.widgetIsbn()),
    new Element(new FieldReference(book, "isbn"), ff2Frame.widgetIsbn())
};

ff2Frame.display(elementList1);
```

#4 - 03/16/2017 02:39 PM - Greg Shah

Do I understand correctly that there is no runtime error or problem? This is just a code duplication issue?

#5 - 03/16/2017 02:49 PM - Constantin Asofiei

Greg Shah wrote:

Do I understand correctly that there is no runtime error or problem? This is just a code duplication issue?

Yes, I think is only a duplication issue. The runtime takes care of using only one widget ID, even if it appears multiple times.

I've just checked a case of form `book.isbn book.isbn` and the widget is still emitted twice.

As there is no runtime impact, we can defer this. Also, the behavior is the same for a simple var, in a case like `DISPLAY i i` - is emitted twice.