

Wt - Bug #3439

wt-3.3.3 Transaction::~Transaction() throws

07/07/2014 03:02 PM - Anonymous

Status:	Closed	Start date:	07/07/2014
Priority:	Normal	Due date:	
Assignee:	Koen Deforche	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	3.3.4		

Description

wt-3.3.3 Transaction::~Transaction() throws exception.

1, never throw an exception from a destructor (Meyers96: 58-61), see <http://www.gotw.ca/gotw/047.htm>

2, when `std::uncaught_exception()` is true, it maybe throw a NEW exception:

```
if(impl*->needsRollback* || std::uncaught_exception())
```

```
{
```

```
try
```

```
{
```

```
rollback();
```

```
}
```

```
catch(std::exception&)
```

```
{
```

```
release();
```

```
throw;//std::uncaught_exception() == true, goto here.
```

```
}
```

```
}
```

3, follow The Right Solution of GotW #47, Transaction::~Transaction() should call `rollback()` only if need it.

Let the user call `commit()`, so it can throw a exception to report error.

History

#1 - 10/15/2014 02:02 PM - Koen Deforche

- Status changed from New to Resolved

- Assignee set to Koen Deforche

- Target version set to 3.3.4

Hey,

For convenience we will auto-commit transactions. I agree there was a problem in the "no-throw" path, and I've fixed this.

However, the 'gotw #47' is general advise that is well know to us, but does not consider the specific design goal. The mentioned reasons that what we are doing is "The Wrong Solution" simply do not apply (because of the semantics of the transaction object).

Regards,

koen

#2 - 10/22/2014 02:27 AM - Koen Deforche

- *Status changed from Resolved to Closed*