

Wt - Feature #2542

ServerSignal utility

01/08/2014 03:38 AM - Saif Rehman

Status:	New	Start date:	01/07/2014
Priority:	Normal	Due date:	
Assignee:		% Done:	60%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
<p>I'm currently working on a ServerSignal utility class which has a similar but somewhat limited interface as boost::signals. The main purpose is so that I wouldn't have to create containers to hold session data every time I want an inter session communication. Currently it does work but has missing features and I'm still working on it.</p> <p>It is to features the following</p> <ul style="list-style-type: none">• Uses WServer::post()• Uses read/write thread locking in the ServerSignal utility• Creates trackable connection with WObject• Allows 2 kinds of emit functions, one with arguments as specified by template arguments, one without arguments (a hacky version currently implemented)• Allows up-to 6 arguments as Wt::Signal(Only using 2 specialized classes during testing, will add the rest when every thing is complete)• Gives information about sender(WServer*, WApplication* should be implemented with WServer::post())• Uses WApplication::bind() (should it be used internally or externally?) <p>TODO</p> <ul style="list-style-type: none">• Make connection trackable with WObject• Use a different method to accept 0 argument boost::bind(Can't be overloaded, can't be template generalized because boost's bind_t doesn't implicitly convert to boost::function when signature is generalized)• Create a way to get sender WApplication pointer when ServerSignal is emitted <p>I posted this because I'm new to function objects and template programming. If Wt team is interested, it may reimplement this in any way.</p> <p>Forked branch for ServerSignal: https://github.com/SaiFi0102/wt/tree/ServerSignal</p> <p>Commits: https://github.com/SaiFi0102/wt/commits/ServerSignal</p>			

History

#1 - 01/09/2014 03:50 AM - Saif Rehman

I'm curious if a simple connection with WApplication::bind() and disconnection at WObject's destructor would be safe or would a tracking technique like boost::signals2 have to be implemented? Not exactly sure how WApplication::bind() works.