

Wt - Feature #5649

Add an API to WIOService to cancel scheduled tasks

04/10/2017 01:35 PM - Kayra Akman

Status:	New	Start date:	04/10/2017
Priority:	Normal	Due date:	
Assignee:	Roel Standaert	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
<p>As mentioned in #5648, WIOService::stop() blocks until all tasks, running or scheduled to run, are executed. Since there is no API to cancel scheduled tasks, WServer::stop() may get blocked due to scheduled tasks. If a scheduled task is to be run after a long period of time, the application becomes useless since the server is stopped before the IO service is stopped in WServer::stop().</p> <p>IMO, an API such as WIOService::cancelScheduledTasks() should be added to WIOService and called in WServer::stop() before stopping the IO service.</p>			

History

#1 - 04/11/2017 01:26 PM - Wim Dumon

- Assignee set to Roel Standaert

Hey Kayra,

That would probably be a useful addition.

We noted however that deadline_timers are not thread safe, so canceling them will need to be done with proper care in Wt's multithreaded architecture.

This splits the problem in two parts:

- create timers so that they can be canceled (proper use of strands seem to allow for this); in that respect it's probably a good idea to have the schedule call return an object that allows cancelation
- keep track of all active timers, so that cancelScheduledTasks() can be implemented

Wim.