

Wt - Improvements #9204

Feature # 7418 (Review): Bootstrap 5 theme

Bootstrap themes require an active WApplication upon construction for proper operation

10/14/2021 12:43 PM - Roel Standaert

Status:	InProgress	Start date:	10/14/2021
Priority:	Normal	Due date:	
Assignee:	Korneel Dumon	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	4.6.0		

Description

The themes are placed in a shared_ptr and thus in theory are stateless and can be shared between several instances of WApplication.

However, the constructor of the Bootstrap themes actually adds builtin XML strings to the active WApplication, basically requiring them to be created in the constructor of the WApplication.

We should probably have some virtual function that takes care of this, and is automatically called in WApplication::setTheme.

History

#1 - 10/14/2021 02:45 PM - Roel Standaert

- Subject changed from Bootstrap themes require an active WApplication upon construction for proper operation to Bootstrap themes require an active WApplication upon construction for proper operation

- Parent task set to #9207

#2 - 10/17/2021 04:14 PM - Rathnadhar K V

Namaskara Roel,

I noticed this fact.

I read the code and in the constructor and applyValidationStyle()

```
WApplication *app = WApplication::instance();
```

Now WApplication::instance() is a static function.

I abhor static functions.

I then modified the WBootstrapTheme where the WApplication pointer is passed as C'tor parameter.

```
WBootstrapTheme(Wt::WApplication* in_app_ptr,  
                Wt::BootstrapVersion in_bootstrapversion,  
                bool in_responsive,  
                bool in_formControlStyle  
                );
```

I store the Application* as private member variable.

I tested the above C'tor. It worked beautifully.

Since I set the Bootstrap version, responsiveness and formcontrolstyle in c'tor itself, my code is that much compact and robust.

I dont have to set the WApplication* repeatedly.

Maybe this helps.

Further, I would replace Shared_ptr with unique_ptr& that way the invocation is that much quicker. Please give that a thought.

Regards
Rathnadhar KV

#3 - 10/18/2021 10:12 AM - Roel Standaert

`WApplication::instance()` returns a pointer to the *current* `WApplication` in the current thread (we use a thread local variable for that), so it's not as nasty as you think it may be.

#4 - 10/19/2021 11:55 AM - Roel Standaert

- *Target version changed from future to 4.7.0*

#5 - 10/19/2021 02:31 PM - Korneel Dumon

- *Status changed from New to InProgress*

- *Assignee set to Korneel Dumon*

#6 - 11/18/2021 05:04 PM - Roel Standaert

- *Target version changed from 4.7.0 to 4.6.0*

- *Parent task changed from #9207 to #7418*

This code has been integrated into the `bootstrap5` branch, so I'm moving this to the issue that tracks Bootstrap 5 rather than the follow-up.