

TYPO3.Flow - Feature #43104

Add Confirm- Radio- CheckBoxDialog to CommandController(CLI)

2012-11-19 16:25 - Rafael Kähm

Status:	Rejected	Start date:	2012-11-19
Priority:	Could have	Due date:	
Assignee:	Bastian Waidelich	% Done:	30%
Category:	Cli	Estimated time:	0.00 hour
Target version:		Complexity:	medium
PHP Version:	5.3		
Has patch:	No		

Description

For interactive confirmation or multiple choice by Commands (CLI).

for example: the same code is on <https://gist.github.com/4111197>

sorry for doccomments

Settings as assoc-array is not comfortably for developers, please comment or speak your ideas about settings!

```
<?php
namespace ..... ;

/*
 * This script belongs to the TYPO3 Flow package '.....'.
 *
 */

use TYPO3\Flow\Annotations as Flow;

/**
 * ConfirmationDialog command controller for the Train2Web.Core package
 * @todo ANSI FOREGROUNDS and BLINK & co.
 * @Flow\Scope("singleton")
 */
class ConfirmationDialogCommandController extends \TYPO3\Flow\Cli\CommandController {

    /**
     * Constants for anwer pattern
     */
    const PATTERN_USER_INPUT_YES = '/^(y|yes|j|ja|si)$/i';
    const PATTERN_USER_INPUT_NO = '/^(n|no|nein)$/i';
    const PATTERN_USER_INPUT_CANCEL = '/^(c|cancel|abort|abbrechen|abortire|abortar)$/i';

    /**
     * A simpliest example for confirm dialog
     *
     * if (user puts yes) {do something} else { do something else }
     * also if user puts n, no, c, cancel then is it else
     *
     * @return void
     */
    public function exampleCommand() {
        if ($this->confirmDialog()) {
            echo "I will continue.".PHP_EOL;
        } else {
            echo "I will not continue.".PHP_EOL;
        }
    }

    /**
     * A simple example confirm dialog with cancel
     */
}
```

```

*
* Please note that switch case provide == comparison and not === <br>
* also if you use == instead of === you can't differentiate between no and cancel!!!
*
* @return void
*/
public function example2Command() {
    $usersChoice = $this->confirmDialog();
    if ($usersChoice) {
        echo 'You typed "yes"!'.PHP_EOL;
    } else if ($usersChoice === NULL) {
        echo 'You typed "cancel"!'.PHP_EOL;
    } else if ($usersChoice === FALSE) {
        echo 'You typed "no"!'.PHP_EOL;
    }
}

/**
 * An example confirm dialog with $optionalSettings[], answer depends messages and callbacks
 *
 * Please note that $optionalSettings['*'] - array has priority
 *
 * @return void
 */
public function demoCommand() {
    $settings = array(
        'confirmationMessage' =>
'Please put "y" or "n" or "c" or nothing to use "%1$s" and press enter: ',
        'standardAnswer' => 'yes',
        'messageByYes' =>
'You typed "%2$s", i will run one callback for "AGREEMENT" but only if it is declared!',
        'messageByNo' =>
'You typed "%2$s", i will run one callback for "REJECTION" but only if it is declared!',
        'messageByCancel' =>
'You typed "%2$s", i will run one callback for "RESET" but only if it is declared!',
        'messageByWrongInput' => 'Wrong input; "%2$s"!!!'.PHP_EOL,
        'You will be asked for so long, until correct entry is detected.',
        'callbackByYes' => array(array($this, 'callbackForYes'), array()),
        'callbackByNo' => array(array($this, 'callbackForNo'), array()),
        'callbackByCancel' => array(array($this, 'callbackForCancel'), array()),
        'callbackByWrongInput' => array(array($this, 'callbackForWrongInput'), array
    ));
    $this->confirmDialog(
'This message will be overwritten if $optionalSettings[\'confirmationMessage\'] is set.', 'NO',
    $settings);
}

/**
 * An example <b>DEMO for callbacks returnvalue</b> based on <b>confirmationdialog:demo</b>
 *
 * Please note that $optionalSettings['*'] - array has priority
 *
 * @return void
 */
public function demo2Command() {
    $settings = array(
        'confirmationMessage' =>
'Please put "y" or "n" or "c" or nothing to use "%1$s" and press enter: ',
        'standardAnswer' => 'yes',
        'messageByYes' =>
'You typed "%2$s", i will run one callback for "AGREEMENT" but only if it is declared!',
        'messageByNo' =>
'You typed "%2$s", i will run one callback for "REJECTION" but only if it is declared!',
        'messageByCancel' =>
'You typed "%2$s", i will run one callback for "RESET" but only if it is declared!',

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        'callbackByYes'           => array(array($this, 'callbackForYes'), array()),
        'callbackByNo'           => array(array($this, 'callbackForNo'), array()),
        'callbackByCancel'       => array(array($this, 'callbackForCancel'), array()),
        'callbackByWrongInput'   => array(array($this, 'callbackForWrongInput2'), array
    ))
    );
    $this->confirmDialog(
'This message will be overwritten if $optionalSettings['confirmationMessage'] is set.', 'NO',
$settings);
    }

/**
 * Shows confirmation message and reads users answer from command line.
 *
 * <b>WARNING: don't set anything if you do not want to use it, it will cause one error. <br>
 * ALL PARAMETERS ARE OPTIONAL. <br>
 * ATTENTION: all settings in array $optionalSettings have priority.</b><br>
 *
 * <b>$optionalSettings</b> = array <br>
 * <b>'confirmationMessage'</b> => 'You can use %1$s as placeholder for your "standardAnswer".', <br>
 * <b>'standardAnswer'</b> => $standardAnswer, <br>
 * <b>'messageByYes'</b> => 'You can use %2$s as placeholder for users input string
.', <br>
 * <b>'messageByNo'</b> => 'Please see "messageByYes".', <br>
 * <b>'messageByCancel'</b> => 'Please see "messageByYes".', <br>
 * <b>'messageByWrongInput'</b> => 'Please see "messageByYes".', <br>
 * <b>'callbackByYes'</b> => array (array($object, 'functionName'), array($param1, $
param2, 'otherParam')), // if your callback return one value then confirmDialog return this instead
of standard return of confirmDialog<br>
 * <b>'callbackByNo'</b> => '', // can also be empty, confirmDialog will print mes
sageBy{yes|no|cancel} and then returns standard value for this answer.<br>
 * <b>'callbackByCancel'</b> => 'please see "callbackByYes" and "callbackByNo"', <br>
 * <b>'callbackByWrongInput'</b> => 'please see "callbackByYes" and "callbackByNo"', // if
return is void then : will ask for so long, until correct entry is detected.<br>
 * <b>'infiniteLoopByWrongInput'</b> => TRUE, // if FALSE and callbackByWrongInput is void the
n throws \InvalidArgumentException with code 1352747275<br>
 * <b>'vsprintfVars'</b> => array($your, $own, $vars) <br>
 * );
 *
 * @param string $confirmationMessage = <b>'Would you like to perform this command? [yes|no|ca
ncel] [%1$s] : '</b>
 * @param string $standardAnswer = <b>'no'</b>
 * @param array $optionalSettings <b>have priority for $confirmationMessage and $standardAnswer</b>
 *
 * @return boolean|NULL|yourOwnType this function will return your own type if your callback r
eturns one value and if not then callbackBy{<br>Yes returns <b>TRUE</b><br>No returns <b>FALSE</b>
<br>Cancel returns <b>NULL</b><br>WrongInput throws <b>\InvalidArgumentException</b><br>}.
 * @throws \InvalidArgumentException (code: 1353073679) if this function will be called with w
rong settings
 */
protected function confirmDialog($confirmationMessage =
'Would you like to perform this command? [yes|no|cancel] [%1$s] : ', $standardAnswer = 'no', array
$optionalSettings = NULL){
    // search patterns

    /// prepare and set $optionalSettings
    ///
    /// set needed DEFAULTSETTINGS -> can be overwritten with array $optionalSettings
    $defaultSettings = array(
        'confirmationMessage' => $confirmationMessage,
        'standardAnswer' => $standardAnswer,
        // by infiniteLoopByWrongInput == TRUE prints messageByWrongInput
        'messageByWrongInput' => 'Wrong input: %2$s',
        'callbackByWrongInput' => '',

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// set to TRUE to prevent \InvalidArgumentException by wrong input -> will cause infinite loop to
the same confirm dialog. Prints "Wrong input: %3$s" and confirmationMessage again
    'infiniteLoopByWrongInput'    => TRUE,
    'vsprintfVars'                => array (
        $standardAnswer,
        ''
    )
// placeholder for current users input, can be used in 'wrongInputMessage'
    );

    //||| overwrite DEFAULTSETTINGS with users SETTINGS if necessary ($optionalSettings)
    if ($optionalSettings === NULL) {
        $settings = $defaultSettings;
    } else {
        $settings = array_merge($defaultSettings, $optionalSettings);
    }

//||| set 'vsprintfVars' properly -> this will force priority for entire settings array
    if (!empty($optionalSettings['standardAnswer'])) {
        $settings['vsprintfVars'][0] = $optionalSettings['standardAnswer'];
    }
}
// analyse developers set of $optionalSettings['standardAnswer']
$developersStandardAnswerIsYes = preg_match(self::PATTERN_USER_INPUT_YES, $settings[
'standardAnswer']);
$developersStandardAnswerIsNo = preg_match(self::PATTERN_USER_INPUT_NO, $settings[
'standardAnswer']);
$developersStandardAnswerIsCancel = preg_match(self::PATTERN_USER_INPUT_CANCEL, $settings[
'standardAnswer']);

// throw an exception, if this function will be called with wrong parameter
//
// developers standardAnswer must be set correctly and can not be empty
$developersStandardAnswerIsCorrect = $developersStandardAnswerIsYes ||
$developersStandardAnswerIsNo || $developersStandardAnswerIsCancel;
if (!$developersStandardAnswerIsCorrect) {
    throw new \TYPO3\FLOW\Exception('Developer has set $settings[\'standardAnswer\'] as '.
$settings['standardAnswer']. ' please set this in your code properly', 1352736688);
}
$messages = array();
foreach ($settings as $key => $value) {

// Texts validation: will trying to render defined message by fail developer can see it immediately
    if (preg_match('/^message/', $key) && !empty($value)) {
        $messages[$key] = vsprintf($settings[$key], $settings['vsprintfVars']);
    }
    // Callback: throw an Exceptions immediately if something is wrong with callBacks
    if (preg_match('/^callBack/', $key) && !empty($value)
        && !method_exists($value[0][0], $value[0][1])) {

        throw new \InvalidArgumentException(
            'function "'. $value[0][1].'" for "'. $key.
            '" not exists or can not be called.'.PHP_EOL.
            'See: call_user_func_array()'.PHP_EOL.
            'http://php.net/manual/en/function.call-user-func-array.php',
            1353073679
        );
    }
}

// render output for question
$output = vsprintf($settings['confirmationMessage'], $settings['vsprintfVars']);
echo $output.' ';

$usersInput = rtrim(fgets(STDIN));
// set 'vsprintfVars' properly
$settings['vsprintfVars'][1] = $usersInput;
if (empty($usersInput)) {

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        $settings['vsprintfVars'][1] = $settings['standardAnswer'];
    }
    // prepare users answer
    $userAnsweredWithYes = preg_match(self::PATTERN_USER_INPUT_YES, $usersInput)
        || empty($usersInput) && $developersStandardAnswerIsYes;
    $userAnsweredWithNo = preg_match(self::PATTERN_USER_INPUT_NO, $usersInput)
        || empty($usersInput) && $developersStandardAnswerIsNo;
    $userAnsweredWithCancel = preg_match(self::PATTERN_USER_INPUT_CANCEL, $usersInput)
        || empty($usersInput) && $developersStandardAnswerIsCancel;

    $usersInputIsCorrect = $userAnsweredWithYes || $userAnsweredWithNo ||
    $userAnsweredWithCancel || empty($usersInput);

    if (empty($usersInput)) {
        $usersInput = $settings['standardAnswer'];
    }
    // evaluate
    if ($usersInputIsCorrect) {
        // for YES
        if ($userAnsweredWithYes) {
            if (!empty($settings['messageByYes'])) {
                echo vsprintf($settings['messageByYes'], $settings['vsprintfVars']).PHP_EOL;
            }
            if (!empty($settings['callBackByYes'])) {
                $returnValueByYes = call_user_func_array($settings['callBackByYes'][0],
                $settings['callBackByYes'][1]);
            }
            if (isset($returnValueByYes)) {
                return $returnValueByYes;
            }
            return true;
        }
        // for NO
        if ($userAnsweredWithNo) {
            if (!empty($settings['messageByNo'])) {
                echo vsprintf($settings['messageByNo'], $settings['vsprintfVars']).PHP_EOL;
            }
            if (!empty($settings['callBackByNo'])) {
                $returnValueByNo = call_user_func_array($settings['callBackByNo'][0],
                $settings['callBackByNo'][1]);
            }
            if (isset($returnValueByNo)) {
                return $returnValueByNo;
            }
            return false;
        }
        // for CANCEL
        if ($userAnsweredWithCancel) {
            if (!empty($settings['messageByCancel'])) {
                echo vsprintf($settings['messageByCancel'], $settings['vsprintfVars']).PHP_EOL;
            }
            if (!empty($settings['callBackByCancel'])) {
                $returnValueByCancel = call_user_func_array($settings['callBackByCancel'][0],
                $settings['callBackByCancel'][1]);
            }
            if (isset($returnValueByCancel)) {
                return $returnValueByCancel;
            }
            return NULL;
        }
    } else {
        // for wrong input
        if (!empty($settings['messageByWrongInput'])) {
            echo vsprintf($settings['messageByWrongInput'], $settings['vsprintfVars']).PHP_EOL;
        }
    }
}

```

```

        if (!empty($settings['callBackByWrongInput'])) {
            $returnValueByWrongInput = call_user_func_array($settings['callBackByWrongInput'][
0], $settings['callBackByCancel'][1]);
        }
        if (isset($returnValueByWrongInput)) {
            return $returnValueByWrongInput;
        }
        // throws Exception, if developer will no infinite loops
        if (!$settings['infiniteLoopByWrongInput']) {
            throw new \InvalidArgumentException(
'User has made incorrect input and you have not caught this exception in your confirmation dialog.
TIPP: You can set $optionalSettings[\'infiniteLoopByWrongInput\'], 1352747275);
        }
    }
}

// will give rise to infinite looping by incorrect user's input if $optionalSettings['infiniteLoop
ByWrongInput'] == TRUE
return $this->confirmDialog($confirmationMessage, $standardAnswer, $settings);
}

private function callBackForYes() {
    echo 'You called '.__FUNCTION__.'().'.PHP_EOL;
}
private function callBackForNo() {
    echo 'You called '.__FUNCTION__.'().'.PHP_EOL;
}
private function callBackForCancel() {
    echo 'You called '.__FUNCTION__.'().'.PHP_EOL;
}
private function callBackForWrongInput() {
    echo 'You called '.__FUNCTION__.'().'.PHP_EOL;
}
/**
 * as you can see this function has return value
 *
 * confirmDialog() will return calbacks return value
 */
private function callBackForWrongInput2() {
    echo 'You called '.__FUNCTION__.'().'.PHP_EOL;
    echo 'Wrong input is not allowed, I will cancel this command.'.PHP_EOL;
    return 'blockish';
}
}
?>

```

History

#1 - 2012-11-19 16:44 - Adrian Förder

- Assignee deleted (Adrian Förder)
- Has patch changed from Yes to No

Rafael, thanks for your submission.

The functionality generally is nice (i.e. the idea); I would say it could be an `AbstractInteractiveCommandController` which users/developers will be allowed to use.

Please update your code to this, maintaining the Coding Guidelines (<http://flow.typo3.org/documentation/codingguidelines.html>), and push such a patch to the review system (http://wiki.typo3.org/Contribution_Walkthrough_with_CommandLine).

However, feel free to work on the gist until the code would be ready for use.

#2 - 2012-11-19 16:44 - Adrian Förder

- Priority changed from Should have to Could have

#3 - 2012-11-20 09:53 - Karsten Dambekalns

- Target version deleted (2.0 beta 1)

#4 - 2012-12-10 15:34 - Bastian Waidelich

- *Category changed from Command to Cli*
- *Status changed from New to Needs Feedback*
- *Assignee set to Bastian Waidelich*

Thanks for this!

IMO this is quite specific and a bit too much magic to be implemented in the core.

Does anything speak against adding this to a separate package which someone could add a dependency on when relying on this kind of feature?

If you agree I'd close this issue.

#5 - 2012-12-18 15:06 - Bastian Waidelich

- *Status changed from Needs Feedback to Rejected*

Closing due to lack of feedback.

I hope this can be useful for people looking for a similar feature (google should still point them here) but – as written above – I'd consider this too specific to be added to the core.

Feel free to reopen and/or comment if you don't agree