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#!/bin/bash
# shellcheck source=kz_common.sh
#####
# Checking scripts.
#
# Written in 2015 by Karel Zimmer <info@karelzimmer.nl>, Creative Commons
# Public Domain Dedication <https://creativecommons.org/publicdomain/zero/1.0>.
#####

set -o errexit
program_path=$(cd "$(dirname "$(realpath "$0")")" && pwd)
source "$program_path"/kz_common.sh

#####
# Constants
#####

declare program_name='kz-ivp'
declare program_desc
program_desc=$(gettext 'Checking scripts')
declare display_name=${program_name/kz-/kz }

declare usage
usage=$(eval_gettext "Usage: \${display_name} \${options_usage}")
declare help
help="$(eval_gettext "Usage: \${display_name} [OPTION...])"

$program_desc.

$(gettext 'Options:')
$options_help"

#####
# Globale variabelen
#####

declare -i maxrc=0

#####
# Functions
#####

function check_input {
    local -i getopt_rc=0
    local parsed=''

    parsed=$(
        getopt  --alternative          \
                --options             "$options_short"  \
                --longoptions         "$options_long"   \
                --name                 "$display_name"  \
                --                     "$@"
    ) || getopt_rc=$?
    if [[ $getopt_rc -ne $ok ]]; then
        info "$usage_line"
        exit $error
    fi
    eval set -- "$parsed"
    kz_common.process_options "$@"

    while true; do

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        case $1 in
            --)
                shift
                break
                ;;
            *)
                shift
                ;;
        esac
done

if [[ "$*" ]]; then
    printf "$display_name: $*: %s\n$usage_line\n" \
        "$($gettext 'arguments are not allowed')"
    exit $error
fi
}

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function process_input {
    local script=''
    local scriptdir=''
    local scriptname=''
    local scripts_repo=$HOME/kz-scripts

    cd "$scripts_repo"
    while read -r script; do
        scriptdir=$(realpath "$(dirname "$script")")
        scriptname=$(basename "$script")
        check_trailing_spaces
        case $scriptname in
            *.policy)
                continue
                ;;
            *.1|*.desktop)
                check_record_length
                ;;
            kz_common.py)
                check_tags
                check_record_length
                check_pycodestyle
                ;;
            kz_common.sh)
                check_tags
                check_record_length
                check_shellcheck
                ;;
            *.sh)
                check_tags
                check_record_types
                check_shellcheck
                ;;
            *)
                check_tags
                check_record_length
                check_code
                run_code
                ;;
        esac
done <<(
    find . \
        -type f \
        -not -path './.git*' \
        -not -path '*/__pycache__*' \

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        -not -name kz.mo          \
        -not -name kz.po          \
        -not -name kz.pot         \
        -not -name LICENSE        \
        -not -name README.md     \
        -print                    |
    sort
)
cd "$HOME"
}

function check_code {
    local bash_script='#!'/bin/bash'
    local python_script='#!'/usr/bin/python3'
    local tab_completion_script='# 'shellcheck shell=bash'

    if grep --quiet --line-regexp --regexp="$bash_script" "$script"; then
        check_shellcheck
    elif grep --quiet --line-regexp --regexp="$tab_completion_script" "$script"
    then
        check_shellcheck
    elif grep --quiet --line-regexp --regexp="$python_script" "$script"; then
        check_pycodestyle
    else
        error "
In $scriptdir / $scriptname:
$(gettext "    Unknown script. Function check_code cannot check script code.")"
        maxrc=$error
    fi
}

function check_pycodestyle {
    local -i check_rc=0

    pycodestyle "$script" || check_rc=$?
    if [[ $check_rc -ne $ok ]]; then
        maxrc=$error
    fi
}

function check_record_length {
    local -i max_line_length=79
    local -i max_line_length_found=0

    max_line_length_found=$(wc --max-line-length < "$script")
    if [[ $max_line_length_found -gt $max_line_length ]]; then
        error "
In $scriptdir / $scriptname:
$(eval_gettext "    A line is longer than \${max_line_length} \
(\${max_line_length_found}).")"
    fi
    maxrc=$error
}

function check_record_types {
    local wrong_record=''

    # Look at lines that start with #1 to #9.
    # Ok:

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# #1 en #2
# #1 foo          (with option -a, --app: show and process foo)
# #1-foo         (with option -a, --app: do not show, but process foo)
# #2 Remove/reset command
# Wrong:
# The rest :-)
wrong_record=$(
    grep --regexp='#[1-9]' "$script" --line-number |
    grep --regexp='#[1-2]$" --invert-match         |
    grep --regexp='#[1-2]' --invert-match         |
    grep --regexp='#1-' --invert-match           || true
)
if [[ $wrong_record ]]; then
    error "
In $scriptdir / $scriptname:
$(gettext 'Faulty line(s) found.')
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$(
    printf '%s' "$wrong_record" |
        nl --number-width=8 --number-separator=' ' --body-numbering=n
)
"
    maxrc=$error
fi
}

function check_shellcheck {
    local -i check_rc=0

    # Shellcheck doesn't work well with absolute filenames.
    cd "$scriptdir"
    shellcheck --external-sources "$scriptname" || check_rc=$?
    if [[ $check_rc -ne $ok ]]; then
        maxrc=$error
    fi
    cd "$scripts_repo"
}

function check_tags {
    local bug='B'U'G'
    local fixme='F'IX'M'E'
    local todo='T'O'D'O'

    if grep --quiet \
        --word-regexp \
        --regexp="$bug" \
        --regexp="$fixme" \
        --regexp="$todo" \
        "$script"; then
        warning "
In $scriptdir / $scriptname:
$(gettext 'Flagged annotation found.')
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$(
    grep --line-number \
        --word-regexp \
        --regexp="$bug" \
        --regexp="$fixme" \
        --regexp="$todo" \
        "$script" |
    nl --number-width=4 \
        --number-separator=' ' \
        --body-numbering=n
)

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)
"
    fi
}

function check_trailing_spaces {
    if grep --quiet --regexp=' '$' "$script"; then
        error "
In $scriptdir / $scriptname:
$(gettext '    End spaces found.')
$(
    grep    --line-number --regexp=' '$' "$script" |
    nl      --number-width=4 --number-separator=' ' --body-numbering=n
)
"
        maxrc=$error
    fi
}

function run_code {
    # Skip tab completion scripts.
    if [[ $script == */usr/bin/* ]]; then
        "$script" --usage |& $logcmd
    fi
}

function term_script {
    exit $maxrc
}

#####
# Script
#####

function main {
    kz_common.init_script "$@"
    check_input "$@"
    process_input
    term_script
}

main "$@"

```