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#!/bin/bash
# shellcheck source=kz_common.sh
#####
# Installation menu.
#
# Written in 2015 by Karel Zimmer <info@karelzimmer.nl>, Creative Commons
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#####

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

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

declare program_name='kz-menu'
declare program_desc
program_desc=$(gettext 'Installation menu')
declare display_name=${program_name/kz-/kz }

declare usage
usage="$(eval_gettext "Usage: \${display_name} [-g|--gui]")
        \$options_usage"

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

$program_desc.

$(gettext 'Options:')
  -g, --gui      $(gettext 'starts in graphics mode')
$options_help"
declare options_short+='g'
declare options_long+=",gui"

declare menu1_title
menu1_title=$(gettext 'Installation menu')
declare menu1_head="          $menu1_title"
declare -a menu1_actions=(
    [1]=$(gettext 'Preparing installation')"
    $(gettext 'Perform installation')"
    $(gettext 'Finish installation')"
    $(gettext 'Provision user')"
    $(gettext 'Commands menu')"
    $(gettext 'Stop')"
)
declare -a menu1_commands=(
    [1]=$(gettext 'Checklist chapter 1')"
    $(gettext 'Checklist chapter 2')"
    $(gettext 'Checklist chapter 3')"
    $(gettext 'Checklist chapter 4')"
    $(gettext 'Used commands')"
    $(gettext 'Exit menu')"
)
declare menu1_lines=${#menu1_actions[@]}

declare menu2_title
menu2_title=$(gettext 'Commands menu')
declare menu2_head="          $menu2_title"
declare -a menu2_actions=(
    [1]=$(gettext 'Show WiFi data')"
    $(gettext 'Create backup')"
)

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        "$(gettext 'Add users')"
        "$(gettext 'Install apps')"
        "$(gettext 'Restore backup')"
        "$(gettext 'Set user photo')"
        "$(gettext 'Set up apps')"
        "$(gettext 'Back')"
    )
declare -a menu2_commands=(
    [1]='kz wifi'
        'kz backup'
        "$(gettext 'Manually')"
        'kz install'
        'kz restore'
        "$(gettext 'Manually')"
        'kz setup'
        "$(gettext 'Previous menu')"
    )
declare menu2_lines=${#menu2_actions[@]}

#####
# Variables
#####

declare execute_command=false
declare -a rows=()
declare option_gui=false

#####
# 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
        case $1 in
            -g|--gui)
                option_gui=true
                kz_common.reset_terminal_attributes
                shift
                ;;
            --)
                shift
                break
                ;;
            *)
                shift
        esac
    done
}

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        esac
    done

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

function process_input {
    if $option_gui; then
        process_menu1_gui
    else
        process_menu1_tui
    fi
}

function process_menu1_gui {
    local -i zenity_rc=0

    while true; do
        title=$menu1_title
        REPLY=$(
            zenity --list \
                --radiolist \
                --width 480 \
                --height 240 \
                --title "$title" \
                --text "$(gettext 'Select a choice:')" \
                --ok-label "$(gettext 'Continue')" \
                --cancel-label "$(gettext 'Exit')" \
                --column "$(gettext 'Choice')" \
                --column "$(gettext 'No.')" \
                --column "$(gettext 'Action')" \
                --column "$(gettext 'Explanation')" \
                TRUE 1 "${menu1_actions[1]}" "${menu1_commands[1]}" \
                FALSE 2 "${menu1_actions[2]}" "${menu1_commands[2]}" \
                FALSE 3 "${menu1_actions[3]}" "${menu1_commands[3]}" \
                FALSE 4 "${menu1_actions[4]}" "${menu1_commands[4]}" \
                FALSE 5 "${menu1_actions[5]}" "${menu1_commands[5]}" \
                2> >($logcmd)
        ) || zenity_rc=$?
        if [[ $zenity_rc -ne 0 ]]; then
            exit $ok
        fi
        process_menu1_choice
    done
}

function process_menu1_tui {
    local action=''

    while true; do
        # Show menu.
        clear -x
        info "$menu1_head"
        "
        for action in "${!menu1_actions[@]}"; do

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        printf '%2s. %-24.24s - %s\n' \
            "$action" \
            "${menu1_actions[$action]}" \
            "${menu1_commands[$action]}"
done
info ''

while true; do
    read -rp "$(eval_gettext "Run number [1-\$menu1_lines]: ")"
    case $REPLY in
        *[^[:digit:]]*)
            printf '%s' "${rewrite_line}"
            continue
            ;;
        *)
            if [[ $REPLY -ge 1 && $REPLY -le $menu1_lines ]]; then
                break
            else
                printf '%s' "${rewrite_line}"
                continue
            fi
            ;;
    esac
done
process_menu1_choice
execute_command=false
done
}

function process_menu1_choice {
    case $REPLY in
        1)
            process_menu1_choice1
            ;;
        2)
            process_menu1_choice2
            ;;
        3)
            process_menu1_choice3
            ;;
        4)
            process_menu1_choice4
            ;;
        5)
            process_menu2
            ;;
        6)
            exit $ok
            ;;
        *)
            error "$(eval_gettext "Cannot handle this choice (\$REPLY).")"
            exit $error
            ;;
    esac
}

function process_menu1_choice1 {
    title="${menu1_actions[1]}"
    rows=(
        [1]="${menu2_actions[1]}#${menu2_commands[1]}"
        "${menu2_actions[2]}#${menu2_commands[2]}"
    )
}

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    process_commands
}

function process_menu1_choice2 {
    title="${menu1_actions[2]}"
    text="
$(gettext "Follow the steps as described in Installation Checklist, Chapter 2.
Checklist installation can be found on the site https://karelzimmer.nl,
under Linux.

Roughly boils down to:
1. Download an image file (.iso).
2. Create a bootable Live USB stick or DVD.
3. Boot the computer from this USB stick or DVD.
4. Install Linux.")"
    info "$text"
    kz_common.wait_for_enter
}

function process_menu1_choice3 {
    title="${menu1_actions[3]}"
    rows=(
        [1]="${menu2_actions[3]}#${menu2_commands[3]}"
        "${menu2_actions[4]}#${menu2_commands[4]}"
    )
    process_commands
}

function process_menu1_choice4 {
    title="${menu1_actions[4]}"
    rows=(
        [1]="${menu2_actions[5]}#${menu2_commands[5]}"
        "${menu2_actions[6]}#${menu2_commands[6]}"
        "${menu2_actions[7]}#${menu2_commands[7]}"
    )
    process_commands
}

function process_menu2 {
    if $option_gui; then
        process_menu2_gui
    else
        process_menu2_tui
    fi
}

function process_menu2_gui {
    local -i zenity_rc=0

    while true; do
        title=$menu2_title
        REPLY=$(
            zenity --list                                \
                  --radiolist                          \
                  --width 480                            \
                  --height 290                          \
                  --title "$title"                      \
                  --text "$(gettext 'Select a choice:')" \
                  --ok-label "$(gettext 'Continue')"     \

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        --cancel-label "$(gettext 'Back')" \
        --column "$(gettext 'Choice')" \
        --column "$(gettext 'No.')" \
        --column "$(gettext 'Action')" \
        --column "$(gettext 'Command')" \
        TRUE 1 "${menu2_actions[1]}" "${menu2_commands[1]}" \
        FALSE 2 "${menu2_actions[2]}" "${menu2_commands[2]}" \
        FALSE 3 "${menu2_actions[3]}" "${menu2_commands[3]}" \
        FALSE 4 "${menu2_actions[4]}" "${menu2_commands[4]}" \
        FALSE 5 "${menu2_actions[5]}" "${menu2_commands[5]}" \
        FALSE 6 "${menu2_actions[6]}" "${menu2_commands[6]}" \
        FALSE 7 "${menu2_actions[7]}" "${menu2_commands[7]}" \
        2> >($logcmd)
    ) || zenity_rc=$?
    if [[ $zenity_rc -ne 0 ]]; then
        break
    fi
    process_menu2_choice
done
}

function process_menu2_tui {
    local action=''
    local exit_menu2=false

    while true; do

        # Show menu.
        clear -x
        info "$menu2_head
"

        for action in "${!menu2_actions[@]}"; do
            printf '%2s. %-24.24s - %s\n' \
                "$action" \
                "${menu2_actions[$action]}" \
                "${menu2_commands[$action]}"
        done
        info ''

        while true; do
            read -rp "$(eval_gettext "Run number [1-\$menu1_lines]: ")"
            case $REPLY in
                *[^[:digit:]]*)
                    printf '%s' "${rewrite_line}"
                    continue
                    ;;
                *)
                    if [[ $REPLY -ge 1 && $REPLY -le $menu2_lines ]]; then
                        break
                    else
                        printf '%s' "${rewrite_line}"
                        continue
                    fi
                    ;;
            esac
        done
        process_menu2_choice
        if $exit_menu2; then
            break
        fi
        execute_command=false
    done
}

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function process_menu2_choice {
    if [[ $REPLY -ge 1 && $REPLY -le $(menu2_lines -1) ]]; then
        title="${menu2_actions[$REPLY]}"
        rows=(
            [1]="${menu2_actions[$REPLY]}#${menu2_commands[$REPLY]}"
        )
        process_commands
    elif [[ $REPLY -eq $menu2_lines ]]; then
        exit_menu2=true
    else
        error "$(eval_gettext "Cannot handle this choice (\$REPLY).)")"
        exit $error
    fi
}

```

```

function process_commands {
    local action=''
    local command=''
    local -i row=0

    if ! $option_gui; then
        clear -x
    fi
    if [[ ${#rows[@]} -eq 1 ]]; then
        execute_command=true
    else
        show_commands_before_execution
    fi
    if $execute_command; then
        for row in "${!rows[@]}"; do
            action=$(
                printf '%s' "${rows[$row]}" | cut --delimiter='#' --fields=1
            )
            command=$(
                printf '%s' "${rows[$row]}" | cut --delimiter='#' --fields=2
            )
            title=$action
            execute_command
        done
    fi
    if ! $option_gui; then
        clear -x
    fi
    if $execute_command && [[ ${#rows[@]} -gt 1 ]]; then
        show_commands_after_execution
    fi
}

```

```

function show_commands_before_execution {
    local action=''
    local command=''
    local -i row=0
    local prompt=''

    text="$(gettext 'The following will be executed:')"
    "
    for row in "${!rows[@]}"; do
        action=$(
            printf '%s' "${rows[$row]}" | cut --delimiter='#' --fields=1
        )
    done
}

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        command=$(
            printf '%s' "${rows[$row]}" | cut --delimiter='#' --fields=2
        )
        text+="
$row. $action ($command)"
    done
    text+='
'
    prompt="$(gettext 'Proceed?')"
    if $option_gui; then
        text+="
$prompt"
        if zenity --question \
            --no-markup \
            --width 600 \
            --height 100 \
            --title "$title" \
            --text "$text" \
            --ok-label "$(gettext 'Yes')" \
            --cancel-label "$(gettext 'No')" 2> >($logcmd); then
            execute_command=true
        else
            execute_command=false
        fi
    else
        info "$text"
        while true; do
            read -rp "$(eval_gettext "\$prompt [Y/n]: ")"
            case $REPLY in
                y*|Y*|j*|J*|'')
                    execute_command=true
                    break
                    ;;
                n*|N*)
                    execute_command=false
                    break
                    ;;
                *)
                    printf '%s' "${rewrite_line}"
                    continue
                    ;;
            esac
        done
    fi
}

```

```

function execute_command {
    local -i cmd_rc=0
    local row=''
    local gui_option=''

    if ! $option_gui; then
        clear -x
    fi

    # Handle manual actions.
    if [[ $command = $(gettext 'Manually') ]]; then
        manual_actions
        return $ok
    fi

    # Process (automatic) commands.
    row=${command/kz /kz-}
}

```



```

cmd=$(
    printf '%s' "$row" | cut --delimiter=' ' --fields=1
)
arg=$(
    printf '%s' "$row" | cut --delimiter=' ' --fields=2- --only-delimited
)
if $option_gui; then
    gui_option='--gui'
fi
"$program_path/$cmd" "$arg" $gui_option -- || cmd_rc=$?
log "$command: rc=$cmd_rc"
kz_common.wait_for_enter
}

```

```

function manual_actions {
    if [[ $title = $(gettext 'Add users') ]]; then
        text="$(gettext 'Add users'):"

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```

$(gettext "1. Add any additional Standard or Admin users by pressing the \
Super key[1],
    type 'user' and click behind Settings on Users.
2. Click Unlock and enter password.
3. Click Add User.
4. Complete the screen and click Add.
5. Close the Users screen.

```

```

[1] The Super key is the Windows key, Command key (Apple), or Magnifier key \
(Chromebook).)"
    info "$text"
    kz_common.wait_for_enter
elif [[ $title = $(gettext 'Set user photo') ]]; then
    if [[ -f $HOME/$(gettext 'Settings')/$(gettext 'Userphoto') ]]; then
        text="$(gettext 'Set user photo'):"

```

```

$(gettext "1. Change the user photo by pressing the Super key[1], type 'user' \
and click
    behind Settings on Users.
2. Click Unlock.
3. Click the image for the user.
4. Click Select a file.
5. Select Userphoto in Personal folder / Settings.
6. Close the Users screen.

```

```

[1] The Super key is the Windows key, Command key (Apple), or Magnifier key \
(Chromebook).)"
    info "$text"
else
    text="$(gettext 'Set user photo'):"
$(gettext 'No user photo was found when backing up.')"
    info "$text"
fi
kz_common.wait_for_enter
fi
}

```

```

function show_commands_after_execution {
    local action=''
    local command=''
    local -i row=0

    text="$(gettext 'The following has been executed:')"
    "

```

```
for row in "${!rows[@]}"; do
    action=$(
        printf '%s' "${rows[$row]}" | cut --delimiter='#' --fields=1
    )
    command=$(
        printf '%s' "${rows[$row]}" | cut --delimiter='#' --fields=2
    )
    text+="$row. $action ($command)"
done
info "$text"
kz_common.wait_for_enter
}
```

```
function term_script {
    exit $ok
}
```

```
#####
# Script
#####
```

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

```
main "$@"
```