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/*****
SampleList.cp
*****/

/*
A sample list for the Starter application.
*/

/***** Includes */
#include <Dialogs.h>
#include "Fn_Prototypes.h"
#include "MainWindow.h"

/***** Defines */
#define LIST_DLOG      510
#define NIL_PTR        0L
#define ALLOCATE_MEM   0
#define IN_FRONT       (WindowPtr)-1L
#define OK_BUTTON      1
#define LIST_ITEM      2
#define RETURN_KEY     13
#define ENTER_KEY      3
#define VISUAL_DELAY   8 // standard is 8 ticks

ListHandle theList;

/***** Prototypes */
Boolean      MyListDialog( void );
pascal Boolean MyListEventFilter( DialogPtr    theDialog,
                                EventRecord  *theEvent,
                                short        *itemHit );
void         MyListDoContent( WindowPtr      w,
                              EventRecord    *e,
                              short          *itemHit );
void         MyFrameList( WindowPtr      w,
                          ListHandle     *myList );

/***** MyListDialog */

Boolean MyListDialog( void )

    WindowPtr    docWindow;
    DialogPtr    dialog;
    Boolean      done;
    Boolean      result;
    short        itemHit;
    short        itemType;
    Handle       itemHandle;
    Rect         itemRect;
    EventRecord  theEvent;
    long         finalTicks;

    ListHandle   myList;
    Rect         myDataBounds;
    Point        myCellSize;
    Rect         myRect;
    const Boolean kDoDraw = TRUE;
    const Boolean kNoGrow = FALSE;
    const        kIncludeScrollBar = TRUE;
    const        kScrollBarWidth = 15;

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const      kColumnsInList = 1;
const      kTextLDEF = 0;
int        myRowNum;
int        myIndex;
Cell       myCell;
int        i;
char       *c;

Str255     myStrArray[21] =
    "lpZero",
    "lpOne",
    "lpTwo",
    "lpThree",
    "lpFour",
    "lpFive",
    "lpSix",
    "lpSeven",
    "lpEight",
    "lpNine",
    "lpTen",
    "lpEleven",
    "lpTwelve",
    "lpThirteen",
    "lpFourteen",
    "lpFifteen",
    "lpSixteen",
    "lpSeventeen",
    "lpEighteen",
    "lpNineteen",
    "lpTwenty" ;

result = FALSE;

docWindow = FrontWindow();
if( docWindow != NIL_PTR )
    MyDoDeactivateWindow( docWindow );

dialog = GetNewDialog( LIST_DLOG, ALLOCATE_MEM, IN_FRONT );

if( dialog == NIL_PTR )
    return( result );

/* AdjustMenus_(); */

ShowWindow( dialog );
FnMisc_FrameButton( dialog, OK_BUTTON );

GetDItem( dialog, LIST_ITEM, &itemType, &itemHandle, &itemRect );
myRect = itemRect;

/* set-up list */

/* start with a list with one column and no rows */
SetRect( &myDataBounds, 0, 0, kColumnsInList, 0 );

/* let list manager calculate size of a cell */
SetPt( &myCellSize, 0, 0 );

/* adjust the rectangle to leave room for scroll bar */
myRect.right = myRect.right - kScrollBarWidth;

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/* create the list */
myList = LNew( &myRect, &myDataBounds, myCellSize,
    kTextLDEF, (WindowPtr)dialog, kDoDraw, kNoGrow,
    !kIncludeScrollBar, kIncludeScrollBar );
(**myList).selFlags = lOnlyOne;
theList = myList;

/* frame list */
MyFrameList( (WindowPtr)dialog, &myList );

/* add strings to list */
LDoDraw( FALSE, myList );
myRowNum = (**myList).dataBounds.bottom;
myIndex = 1;
for( i = 1; i <= 20; i++ )

    myRowNum = LAddRow( 1, myRowNum, myList );
    SetPt( &myCell, 0, myRowNum );
    c = (char *)myStrArray[myIndex];
    c = c + 1;
    LSetCell( c, StrLength(myStrArray[myIndex]), myCell, myList );
    myRowNum = myRowNum + 1;
    myIndex = myIndex + 1;

LDoDraw( TRUE, myList );
LUpdate( dialog->visRgn, myList );

done = FALSE;
while( done == FALSE )

    ModalDialog( &MyListEventFilter, &itemHit );

    switch( itemHit )

        case OK_BUTTON:
            result = TRUE;
            done = TRUE;
            break;
        case LIST_ITEM:
            result = TRUE;
            break;
        default:
            break;

DisposDialog( dialog );

return( result );

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/***** PASCAL MyListEventFilter */

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pascal Boolean MyListEventFilter( DialogPtr    theDialog,
                                EventRecord *theEvent,
                                short          *itemHit )

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short    thePart;
char     key;
short    itemType;
Handle   itemHandle;

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Rect        itemRect;
long        finalTicks;
Rect        dragRect;
Boolean     result;
Point       theLocation;
WindowPtr   theWindow;

result = FALSE;
dragRect = screenBits.bounds;

switch( (*theEvent).what )

case mouseDown:
    thePart = FindWindow( (*theEvent).where, &theWindow );
    if( theWindow == theDialog )

        switch( thePart )

            case inDrag:
                DragWindow( theDialog,
                           (*theEvent).where,
                           &dragRect );
                result = TRUE;
                break;
            case inContent:
                if( theDialog == FrontWindow() )

                    MyListDoContent( (WindowPtr)theDialog,
                                     theEvent, itemHit );
                    result = TRUE;

                break;
            default:
                break;

        break;
case keyDown:
case autoKey:
    key = (*theEvent).message & charCodeMask;
    if( (key == RETURN_KEY) || (key == ENTER_KEY) )

        GetDItem( theDialog,
                  OK_BUTTON,
                  &itemType,
                  &itemHandle,
                  &itemRect );
        HiliteControl( (ControlHandle)itemHandle,
                       inButton );
        Delay( VISUAL_DELAY, &finalTicks );
        HiliteControl( (ControlHandle)itemHandle, 0 );
        *itemHit = OK_BUTTON;
        result = TRUE;

    /* Handle other keyboard equivalents here */
    break;
case updateEvt:
    if( (WindowPtr)(*theEvent).message != theDialog )

        MyDoUpdateWindow( (WindowPtr)(*theEvent).message );

    else

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        MyFrameList( (WindowPtr)theDialog, &theList );
        LUpdate( theDialog->visRgn, theList );
        FnMisc_FrameButton( theDialog, OK_BUTTON );

        break;
    case activateEvt:
        if( (WindowPtr)(*theEvent).message != theDialog )

            /*
            DoActivate_( (WindowPtr)(*theEvent).message,
                        ((*theEvent).modifiers & activeFlag),
                        *theEvent );
            */

            break;
        default:
            break;

    return( result );

/***** MyListDoContent */

void MyListDoContent( WindowPtr    w,
                    EventRecord    *e,
                    short           *itemHit )

/*
    Use this procedure when user clicks in content region of TE window.
    Uses the TnTE_ScrollProc below to take care of scroll bar function.
    Also uses FnTE_AdjustText function.
*/

    int             cntlCode;
    ControlHandle    cntl;
    GrafPtr         savePort;

    short           itemType;
    Handle           itemHandle;
    Rect            itemRect;
    long            finalTicks;

    GetPort(&savePort);
    SetPort(w);
    *itemHit = 0;
    GlobalToLocal(&e->where);
    if( (cntlCode = FindControl(e->where, w, &cntl)) == inButton )

        if( TrackControl( cntl, e->where, 0L ) )
            *itemHit = OK_BUTTON;

    else

        GetDItem( (DialogPtr)w, LIST_ITEM, &itemType, &itemHandle,
                    &itemRect );
        if( PtInRect( e->where, &itemRect ) )

            *itemHit = LIST_ITEM;
            if( LClick( e->where, e->modifiers, theList ) )

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        GetDItem( (DialogPtr)w,
                  OK_BUTTON,
                  &itemType,
                  &itemHandle,
                  &itemRect );
        HiliteControl( (ControlHandle)itemHandle,
                       inButton );
        Delay( VISUAL_DELAY, &finalTicks );
        HiliteControl( (ControlHandle)itemHandle, 0 );
        *itemHit = OK_BUTTON;

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SetPort(savePort);

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/***** MyFrameList */

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void MyFrameList( WindowPtr w, ListHandle *myList )

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    Rect    myBorder;
    PenState myPenState;
    GrafPtr savePort;

    savePort = thePort;
    SetPort( w );
    myBorder = (**myList).rView;
    GetPenState( &myPenState );
    PenNormal();
    PenSize(1,1);
    InsetRect( &myBorder, -1, -1 );
    FrameRect( &myBorder );
    SetPenState( &myPenState );
    SetPort( savePort );

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/*****

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    SampleList.r

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/* THINK Rez resource format */

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#include <Types.r>

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resource 'DLOG' (510, "List Dialog")

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45, 10, 317, 205,

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movableDBoxProc, /* movableDBoxProc or noGrowDocProc */

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invisible,

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goAway,

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0x0,

```

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510,

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"List Dialog"
;

resource 'DITL' (510, "List Dialog")

/* array DITLarray: 1 elements */
/* [1] */

242, 68, 262, 128,

Button

enabled,

"OK"

,

/* [2] */

5, 5, 229, 190,

UserItem

disabled

;

/*****

SampleList.h

*****/

/***** Prototypes */
extern Boolean MyListDialog( void );

// End of File

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