

```
1
2 // MainFrm.cpp : implementation of the CMainFrame class
3 //
4
5 #include "pch.h"
6 #include "framework.h"
7 #include "DesignArk.h"
8
9 #include "MainFrm.h"
10
11 #ifdef _DEBUG
12 #define new DEBUG_NEW
13 #endif
14
15 // CMainFrame
16
17 IMPLEMENT_DYNAMIC(CMainFrame, CMDIFrameWndEx)
18
19 const int iMaxUserToolbars = 10;
20 const UINT uiFirstUserToolBarId = AFX_IDW_CONTROLBAR_FIRST + 40;
21 const UINT uiLastUserToolBarId = uiFirstUserToolBarId + 7;
22
23 BEGIN_MESSAGE_MAP(CMainFrame, CMDIFrameWndEx)
24     ON_WM_CREATE()
25     ON_COMMAND(ID_WINDOW_MANAGER, &CMainFrame::OnWindowManager)
26     ON_COMMAND(ID_VIEW_CUSTOMIZE, &CMainFrame::OnViewCustomize)
27     ON_REGISTERED_MESSAGE(AFX_WM_CREATETOOLBAR, &CMainFrame::OnToolBarCreateNew)
28     ON_COMMAND_RANGE(ID_VIEW_APPLOOK_WIN_2000, ID_VIEW_APPLOOK_WINDOWS_7, &CMainFrame::OnApplicationLook)
29     ON_UPDATE_COMMAND_UI_RANGE(ID_VIEW_APPLOOK_WIN_2000, ID_VIEW_APPLOOK_WINDOWS_7, &CMainFrame::OnUpdateApplicationLook)
30 END_MESSAGE_MAP()
31
32 static UINT indicators[] =
33 {
34     ID_SEPARATOR, // status line indicator
35     ID_INDICATOR_CAPS,
36     ID_INDICATOR_NUM
37 };
38
39 // CMainFrame construction/destruction
40
41 CMainFrame::CMainFrame() noexcept
42 {
43     // TODO: add member initialization code here
44     theApp.m_nAppLook = theApp.GetInt(_T("ApplicationLook"), ID_VIEW_APPLOOK_VS_2008);
45 }
46 CMainFrame::~CMainFrame()
47 {
48 }
49
50 BOOL CMainFrame::PreCreateWindow(CREATESTRUCT& cs)
```

```
51 {
52     if( !CMDIFrameWndEx::PreCreateWindow(cs) )
53         return FALSE;
54     // TODO: Modify the Window class or styles here by modifying
55     // the CREATESTRUCT cs
56
57     return TRUE;
58 }
59 BOOL CMainFrame::LoadFrame(UINT nIDResource, DWORD dwDefaultStyle,  ↗
    CWnd* pParentWnd, CCreateContext* pContext)
60 {
61     // base class does the real work
62
63     if (!CMDIFrameWndEx::LoadFrame(nIDResource, dwDefaultStyle,  ↗
        pParentWnd, pContext))
64     {
65         return FALSE;
66     }
67
68
69     // enable customization button for all user toolbars
70     BOOL bNameValid;
71     CString strCustomize;
72     bNameValid = strCustomize.LoadString(IDS_TOOLBAR_CUSTOMIZE);
73     ASSERT(bNameValid);
74
75     for (int i = 0; i < iMaxUserToolbars; i++)
76     {
77         CMFCToolBar* pUserToolbar = GetUserToolBarByIndex(i);
78         if (pUserToolbar != nullptr)
79         {
80             pUserToolbar->EnableCustomizeButton(TRUE,  ↗
                ID_VIEW_CUSTOMIZE, strCustomize);
81         }
82     }
83
84     return TRUE;
85 }
86
87 #ifdef _DEBUG
88 void CMainFrame::AssertValid() const
89 {
90     CMDIFrameWndEx::AssertValid();
91 }
92 void CMainFrame::Dump(CDumpContext& dc) const
93 {
94     CMDIFrameWndEx::Dump(dc);
95 }
96 #endif //_DEBUG
97
98 int CMainFrame::OnCreate(LPCREATESTRUCT lpCreateStruct)
99 {
100     if (CMDIFrameWndEx::OnCreate(lpCreateStruct) == -1)
101         return -1;
102
103     BOOL bNameValid;
```

```
104     CString strCustomize;
105
106     init_tabs();
107     init_menubar();
108     init_toolbar();
109     init_statusbar();
110     init_dockingwindows();
111     init_customisation();
112     init_userimages();
113     init_commands();
114
115     return 0;
116 }
117 void CMainFrame::OnWindowManager()
118 {
119     ShowWindowsDialog();
120 }
121 void CMainFrame::OnViewCustomize()
122 {
123     CMFCToolBarsCustomizeDialog* pDlgCust = new           ↗
        CMFCToolBarsCustomizeDialog(this, TRUE /* scan menus */);
124     pDlgCust->EnableUserDefinedToolbars();
125     pDlgCust->Create();
126 }
127 LRESULT CMainFrame::OnToolbarCreateNew(WPARAM wp, LPARAM lp)
128 {
129     LRESULT lres = CMDIFrameWndEx::OnToolbarCreateNew(wp, lp);
130     if (lres == 0)
131     {
132         return 0;
133     }
134
135     CMFCToolBar* pUserToolbar = (CMFCToolBar*)lres;
136     ASSERT_VALID(pUserToolbar);
137
138     BOOL bNameValid;
139     CString strCustomize;
140     bNameValid = strCustomize.LoadString(IDS_TOOLBAR_CUSTOMIZE);
141     ASSERT(bNameValid);
142
143     pUserToolbar->EnableCustomizeButton(TRUE, ID_VIEW_CUSTOMIZE, ↗
        strCustomize);
144     return lres;
145 }
146 void CMainFrame::OnApplicationLook(UINT id)
147 {
148     CWaitCursor wait;
149
150     theApp.m_nAppLook = id;
151
152     switch (theApp.m_nAppLook)
153     {
154     case ID_VIEW_APPLLOOK_WIN_2000:
155         CMFCVisualManager::SetDefaultManager(RUNTIME_CLASS ↗
            (CMFCVisualManager));
156         break;
```

```
157
158     case ID_VIEW_APPLOOK_OFF_XP:
159         CMFCVisualManager::SetDefaultManager(RUNTIME_CLASS
160             (CMFCVisualManagerOfficeXP));
161         break;
162     case ID_VIEW_APPLOOK_WIN_XP:
163         CMFCVisualManagerWindows::m_b3DTabsXPTheme = TRUE;
164         CMFCVisualManager::SetDefaultManager(RUNTIME_CLASS
165             (CMFCVisualManagerWindows));
166         break;
167     case ID_VIEW_APPLOOK_OFF_2003:
168         CMFCVisualManager::SetDefaultManager(RUNTIME_CLASS
169             (CMFCVisualManagerOffice2003));
170         CDockingManager::SetDockingMode(DT_SMART);
171         break;
172     case ID_VIEW_APPLOOK_VS_2005:
173         CMFCVisualManager::SetDefaultManager(RUNTIME_CLASS
174             (CMFCVisualManagerVS2005));
175         CDockingManager::SetDockingMode(DT_SMART);
176         break;
177     case ID_VIEW_APPLOOK_VS_2008:
178         CMFCVisualManager::SetDefaultManager(RUNTIME_CLASS
179             (CMFCVisualManagerVS2008));
180         CDockingManager::SetDockingMode(DT_SMART);
181         break;
182     case ID_VIEW_APPLOOK_WINDOWS_7:
183         CMFCVisualManager::SetDefaultManager(RUNTIME_CLASS
184             (CMFCVisualManagerWindows7));
185         CDockingManager::SetDockingMode(DT_SMART);
186         break;
187     default:
188         switch (theApp.m_nAppLook)
189         {
190         case ID_VIEW_APPLOOK_OFF_2007_BLUE:
191             CMFCVisualManagerOffice2007::SetStyle
192                 (CMFCVisualManagerOffice2007::Office2007_LunaBlue);
193             break;
194         case ID_VIEW_APPLOOK_OFF_2007_BLACK:
195             CMFCVisualManagerOffice2007::SetStyle
196                 (CMFCVisualManagerOffice2007::Office2007_ObsidianBlack);
197             break;
198         case ID_VIEW_APPLOOK_OFF_2007_SILVER:
199             CMFCVisualManagerOffice2007::SetStyle
200                 (CMFCVisualManagerOffice2007::Office2007_Silver);
201             break;
202         case ID_VIEW_APPLOOK_OFF_2007_AQUA:
```

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...james\source\repos\DesignArk\DesignArk\MainFrm.cpp 5
203         CMFCVisualManagerOffice2007::SetStyle 7
            (CMFCVisualManagerOffice2007::Office2007_Aqua);
204         break;
205     }
206
207     CMFCVisualManager::SetDefaultManager(RUNTIME_CLASS 7
        (CMFCVisualManagerOffice2007));
208     CDockingManager::SetDockingMode(DT_SMART);
209 }
210
211 RedrawWindow(nullptr, nullptr, RDW_ALLCHILDREN | RDW_INVALIDATE 7
    | RDW_UPDATENOW | RDW_FRAME | RDW_ERASE);
212
213 theApp.WriteInt(_T("ApplicationLook"), theApp.m_nAppLook);
214 }
215 void CMainFrame::OnUpdateApplicationLook(CCmdUI* pCmdUI)
216 {
217     pCmdUI->SetRadio(theApp.m_nAppLook == pCmdUI->m_nID);
218 }
219
220 void CMainFrame::OnSetActiveView(CView* pViewNew, BOOL bNotify)
221 {
222     CFrameWnd::SetActiveView(pViewNew, bNotify);
223 }
224
225 // Private Initialisers
226 int CMainFrame::init_tabs()
227 {
228     CMDITabInfo mdiTabParams;
229     mdiTabParams.m_style = CMFCBaseTabCtrl::STYLE_3D_ONENOTE;
230     mdiTabParams.m_bActiveTabCloseButton = TRUE;
231     mdiTabParams.m_bDocumentMenu = TRUE;
232     mdiTabParams.m_bEnableTabSwap = TRUE;
233     mdiTabParams.m_bFlatFrame = TRUE;
234     mdiTabParams.m_bTabCloseButton = TRUE;
235     mdiTabParams.m_bTabCustomTooltips = FALSE;
236     mdiTabParams.m_bTabIcons = FALSE;
237     //mdiTabParams.m_nTabBorderSize = 7
        CMFCVisualManager::GetMDITabsBordersSize;
238     mdiTabParams.m_tabLocation = 7
        CMFCBaseTabCtrl::Location::LOCATION_TOP;
239     this->EnableMDITabbedGroups(TRUE, mdiTabParams);
240
241     return 0;
242 }
243 int CMainFrame::init_menubar()
244 {
245     if (!this->m_wndMenuBar.Create(this))
246     {
247         TRACE0("Failed to create menubar\n");
248         return -1; // fail to create
249     }
250
251     this->m_wndMenuBar.SetPaneStyle(this->m_wndMenuBar.GetPaneStyle 7
        () | CBRS_SIZE_DYNAMIC | CBRS_TOOLTIPS | CBRS_FLYBY);
252

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```
253 // prevent the menu bar from taking the focus on activation
254 CMFCPopupMenu::SetForceMenuFocus(FALSE);
255
256 return 0;
257 }
258 int CMainFrame::init_toolbar()
259 {
260     BOOL bNameValid;
261     if (!m_wndToolBar.CreateEx(this, TBSTYLE_FLAT, WS_CHILD |
262         WS_VISIBLE | CBRS_TOP | CBRS_GRIPPER | CBRS_TOOLTIPS |
263         CBRS_FLYBY | CBRS_SIZE_DYNAMIC) ||
264         !m_wndToolBar.LoadToolBar(theApp.m_bHiColorIcons ?
265             IDR_MAINFRAME_256 : IDR_MAINFRAME))
266     {
267         TRACE0("Failed to create toolbar\n");
268         return -1; // fail to create
269     }
270
271     CString strToolBarName;
272     bNameValid = strToolBarName.LoadString(IDS_TOOLBAR_STANDARD);
273     ASSERT(bNameValid);
274     m_wndToolBar.SetWindowText(strToolBarName);
275
276     CString strCustomize;
277     bNameValid = strCustomize.LoadString(IDS_TOOLBAR_CUSTOMIZE);
278     ASSERT(bNameValid);
279     m_wndToolBar.EnableCustomizeButton(TRUE, ID_VIEW_CUSTOMIZE,
280         strCustomize);
281
282     // Allow user-defined toolbars operations:
283     InitUserToolbars(nullptr, uiFirstUserToolBarId,
284         uiLastUserToolBarId);
285
286     return 0;
287 }
288 int CMainFrame::init_statusbar()
289 {
290     if (!this->m_wndStatusBar.Create(this))
291     {
292         TRACE0("Failed to create status bar\n");
293         return -1; // fail to create
294     }
295     this->m_wndStatusBar.SetIndicators(indicators, sizeof
296         (indicators) / sizeof(UINT));
297
298     return 0;
299 }
300 int CMainFrame::init_dockingwindows()
301 {
302     // TODO: Delete these five lines if you don't want the toolbar
303     // and menubar to be dockable
304     this->DockPane(&this->m_wndMenuBar);
305     this->DockPane(&this->m_wndToolBar);
306     //this->m_wndMenuBar.EnableDocking(CBRS_ALIGN_ANY);
307     //this->m_wndToolBar.EnableDocking(CBRS_ALIGN_ANY);
308     //this->EnableDocking(CBRS_ALIGN_ANY);
309 }
```

```
302
303     // enable Visual Studio 2005 style docking window behavior
304     CDockingManager::SetDockingMode(DT_SMART);
305     // enable Visual Studio 2005 style docking window auto-hide behavior
306     this->EnableAutoHidePanels(CBRS_ALIGN_ANY);
307
308     return 0;
309 }
310 int CMainFrame::init_customisation()
311 {
312     BOOL bNameValid;
313     CString strCustomize;
314     bNameValid = strCustomize.LoadString(IDS_TOOLBAR_CUSTOMIZE);
315     ASSERT(bNameValid);
316
317     // set the visual manager and style based on persisted value
318     this->OnApplicationLook(theApp.m_nAppLook);
319
320     // Enable enhanced windows management dialog
321     this->EnableWindowsDialog(ID_WINDOW_MANAGER, ID_WINDOW_MANAGER, TRUE);
322
323     // Enable toolbar and docking window menu replacement
324     this->EnablePaneMenu(TRUE, ID_VIEW_CUSTOMIZE, strCustomize, ID_VIEW_TOOLBAR);
325
326     // enable quick (Alt+drag) toolbar customization
327     CMFCToolBar::EnableQuickCustomization();
328
329     // Switch the order of document name and application name on the window title bar. This
330     // improves the usability of the taskbar because the document name is visible with the thumbnail.
331     this->ModifyStyle(0, FWS_PREFIXTITLE);
332
333     return 0;
334 }
335 int CMainFrame::init_userimages()
336 {
337     // Load menu item image (not placed on any standard toolbars):
338     CMFCToolBar::AddToolBarForImageCollection(IDR_MENU_IMAGES, theApp.m_bHiColorIcons ? IDB_MENU_IMAGES_24 : 0);
339
340     if (CMFCToolBar::GetUserImages() == nullptr)
341     {
342         // load user-defined toolbar images
343         if (this->m_UserImages.Load(_T(".\\UserImages.bmp")))
344         {
345             CMFCToolBar::SetUserImages(&m_UserImages);
346         }
347     }
348
349     return 0;
350 }
351 int CMainFrame::init_commands()
```

```
352 {
353     CList<UINT, UINT> lstBasicCommands;
354
355     lstBasicCommands.AddTail(ID_FILE_NEW);
356     lstBasicCommands.AddTail(ID_FILE_OPEN);
357     lstBasicCommands.AddTail(ID_FILE_SAVE);
358     lstBasicCommands.AddTail(ID_FILE_PRINT);
359     lstBasicCommands.AddTail(ID_APP_EXIT);
360     lstBasicCommands.AddTail(ID_EDIT_CUT);
361     lstBasicCommands.AddTail(ID_EDIT_PASTE);
362     lstBasicCommands.AddTail(ID_EDIT_UNDO);
363     lstBasicCommands.AddTail(ID_APP_ABOUT);
364     lstBasicCommands.AddTail(ID_VIEW_STATUS_BAR);
365     lstBasicCommands.AddTail(ID_VIEW_TOOLBAR);
366     lstBasicCommands.AddTail(ID_VIEW_APPLOOK_OFF_2003);
367     lstBasicCommands.AddTail(ID_VIEW_APPLOOK_VS_2005);
368     lstBasicCommands.AddTail(ID_VIEW_APPLOOK_OFF_2007_BLUE);
369     lstBasicCommands.AddTail(ID_VIEW_APPLOOK_OFF_2007_SILVER);
370     lstBasicCommands.AddTail(ID_VIEW_APPLOOK_OFF_2007_BLACK);
371     lstBasicCommands.AddTail(ID_VIEW_APPLOOK_OFF_2007_AQUA);
372     lstBasicCommands.AddTail(ID_VIEW_APPLOOK_WINDOWS_7);
373     lstBasicCommands.AddTail(ID_SORTING_SORTALPHABETIC);
374     lstBasicCommands.AddTail(ID_SORTING_SORTBYTYPE);
375     lstBasicCommands.AddTail(ID_SORTING_SORTBYACCESS);
376     lstBasicCommands.AddTail(ID_SORTING_GROUPBYTYPE);
377
378     CMFCToolBar::SetBasicCommands(lstBasicCommands);
379
380     return 0;
381 }
382
```