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1
2 /*****
3  *
4  * File:          PDFVIEWERAPI_c.h
5  *
6  * Description:    The PDF Viewer API native C interface.
7  *
8  * Author:         Dr. Hans Bärfuss, PDF Tools AG
9  *
10 * Copyright:      Copyright (C) 2013 PDF Tools AG, Switzerland
11 *                 All rights reserved.
12 *
13 *****/
14
15 #ifndef _PDFVIEWERAPI_INCLUDED
16 #define _PDFVIEWERAPI_INCLUDED
17
18 #include "pdfcdecl.h"
19
20
21 #ifndef PDFVIEWERAPI
22 #   if defined(WIN32) && !defined(_ASSEMBLY)
23 #       ifdef PDFVIEWERAPI_EXPORTS
24 #           define PDFVIEWERAPI __declspec(dllexport)
25 #       else
26 #           define PDFVIEWERAPI __declspec(dllimport)
27 #       endif
28 #   else
29 #       define PDFVIEWERAPI
30 #   endif
31 #endif
32
33 #ifndef PDFVIEWERCALL
34 #   if defined(WIN32)
35 #       define PDFVIEWERCALL __stdcall
36 #   else
37 #       define PDFVIEWERCALL
38 #   endif
39 #endif
40
41 #ifdef _UNICODE
42 #define PdfViewerSetLicenseKey      PdfViewerSetLicenseKeyW
43 #define PdfViewerGetProductVersion PdfViewerGetProductVersionW
44 #define PdfViewerCreateObject      PdfViewerCreateObjectW
45 #else
46 #define PdfViewerSetLicenseKey      PdfViewerSetLicenseKeyA
47 #define PdfViewerGetProductVersion PdfViewerGetProductVersionA
48 #define PdfViewerCreateObject      PdfViewerCreateObjectA
49 #endif
50
51 #ifndef BOOL
52 #define BOOL int
53 #define TRUE 1
54 #define FALSE 0
55 #endif
56
57 #ifdef __cplusplus
58 extern "C" {
59 #endif
60
61 typedef struct CDocumentHandle CDocumentHandle;
62 typedef struct CPageHandle CPageHandle;
63 typedef struct CTextHandle CTextHandle;
64 typedef struct CAnnotationHandle CAnnotationHandle;
65
66
67 typedef enum TLayoutMode
68 {
69     eLayoutModeNone = 0,
70     eLayoutModeSinglePage = 1,
71     eLayoutModeOneColumn = 2,
72     eLayoutModeTwoColumnLeft = 3,
73     eLayoutModeTwoColumnRight = 4,

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74     eLayoutModeTwoPageLeft = 5,
75     eLayoutModeTwoPageRight = 6
76 } TLayoutMode;
77 typedef enum TDestination
78 {
79     eDestinationInvalid = 0,
80     eDestinationFit = 1,
81     eDestinationFitH = 2,
82     eDestinationFitV = 3,
83     eDestinationFitR = 4,
84     eDestinationFitB = 5,
85     eDestinationFitBH = 6,
86     eDestinationFitBV = 7,
87     eDestinationXYZ = 8
88 } TDestination;
89 typedef enum TViewerError
90 {
91     eLicenseError = 0,
92     ePasswordError = 1,
93     eFileNotFoundError = 2,
94     eUnknownError = 3,
95     eIllegalArgumentError = 4,
96     eOutOfMemoryError = 5,
97     eFileCorruptError = 6,
98     eUnsupportedFeatureError = 7,
99     eNoFileAccess = 8
100 } TViewerError;
101
102 typedef enum TAnnotationType
103 {
104     eAnntationUnknown = 0,
105     eAnnotationText = 1,
106     eAnnotationLink = 2,
107     eAnnotationFreeText = 3,
108     eAnnotationHighlight = 9,
109     eAnnotationInk = 15,
110     eAnnotationPopup = 16,
111     eAnnotationWidet = 20
112 } TAnnotationType;
113
114 typedef struct TPdfViewerPoint
115 {
116     double m_x;           /* Horizontal coordinate */
117     double m_y;           /* Vertical coordinate */
118 } TPdfViewerPoint;
119 typedef struct TPdfViewerOutlineItem
120 {
121     int m_iId;             /* Unique outline identifier. */
122     int m_iLevel;          /* The outline level relative to the other outlines
of the array. */
123     BOOL m_bDescendants;    /* Whether this outline has descendants. */
124     WCHAR* m_szTitle;     /* The title of the outline. */
125     int m_iPage;           /* Destination page. */
126     TPdfViewerPoint m_pt; /* Destination coordinates on page (raw pdf
coordinates). */
127     double m_dZoom;        /* Destination Zoom (0..100%). */
128     double m_dLeft;        /* left value of the destination */
129     double m_dTop;         /* top value of the destination */
130     double m_dRight;       /* right value of the destination */
131     double m_dBottom;      /* bottom value of the destination */
132     char* m_szDestType;    /* Destination type */
133 } TPdfViewerOutlineItem;
134
135 typedef struct TPdfTextFragment
136 {
137     WCHAR* m_szTextW;
138     int m_iTextLength;
139     double m_dX;
140     double m_dY; //from bottom of page
141     double m_dWidth;
142     double m_dHeight;
143     double* m_pdGlyphPosition;
144     int m_nGlyphPositionSize;

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145 } TPDFTextFragment;
146
147 typedef struct TPDFRectangle
148 {
149     double m_x1;
150     double m_y1;
151     double m_x2;
152     double m_y2;
153 } TPDFRectangle;
154
155 typedef struct TPDFPopupAnnotation
156 {
157     CAnnotationHandle* m_pPopupAnnotationHandle; /* Annotation handle */
158     double m_aRect[4]; /* Rectangle of the popup */
159     BOOL m_bIsOpen; /* is popup opened */
160     const char* m_szSubtype; /* Subtype - Must be 'Popup'
    for a popup annotation */
161 } TPDFPopupAnnotation;
162
163 typedef struct TPDFAnnotation
164 {
165     CAnnotationHandle* m_pAnnotationHandle; /* Annotation handle */
166     int m_iPage; /* Page of the annotation */
167     const char* m_szSubtype; /* Annotation subtype */
168     int m_nColors; /* No. of color components */
169     double* m_aColor; /* Color of the annotation */
170     int m_iFlags; /* Flags for the annotation */
171     double m_aRect[4]; /* Rectangle of the annotation */
172     double* m_aQuadPoints; /* Quadpoints for link and
    highlight */
173     int m_nQuadPoints; /* Number of quad points */
174     WCHAR* m_szContents; /* Content of the annotation */
175     BOOL m_bIsLink; /* Is link annotation */
176     const char* m_szActionType; /* action type of destination */
177     BOOL m_bHasURI; /* does destination have a URI */
178     WCHAR* m_szUri; /* URI of the action (if m_bHasUri
    is true) */
179     int m_iDestType; /* Type of destination */
180     BOOL m_aHasDestVal[5]; /* Helper array */
181     double m_pDestArray[5]; /* Destination of the link */
182     int m_iDestPage; /* Page of destination */
183     BOOL m_bIsMarkup; /* is it a markup annotation */
184     const char* m_szTextLabel; /* Label of the annotation (often
    the author) */
185     BOOL m_bHasPopup; /* is there a popup annotation */
186     TPDFPopupAnnotation* m_pPopupAnnot; /* Simplified popup annotation
    object */
187 } TPDFAnnotation;
188
189
190 /* Object creation / destruction */
191 PDFVIEWERAPI CDocumentHandle* PDFVIEWERCALL PdfViewerCreateObjectW(const WCHAR*
    szFileName, const void* pData, size_t nSize, const WCHAR* szPassword);
192 PDFVIEWERAPI CDocumentHandle* PDFVIEWERCALL PdfViewerCreateObjectA(const char*
    szFileName, const void* pData, size_t nSize, const char* szPassword);
193 PDFVIEWERAPI void PDFVIEWERCALL
    PdfViewerDestroyObject(CDocumentHandle* handle);
194
195 /*initializing*/
196 PDFVIEWERAPI void PDFVIEWERCALL PdfViewerInitialize();
197 PDFVIEWERAPI void PDFVIEWERCALL PdfViewerUnInitialize();
198
199 /* Licensing */
200 PDFVIEWERAPI BOOL PDFVIEWERCALL PdfViewerSetLicenseKeyW(const
    WCHAR* szLicenseKey);
201 PDFVIEWERAPI BOOL PDFVIEWERCALL PdfViewerSetLicenseKeyA(const char*
    szLicenseKey);
202 PDFVIEWERAPI BOOL PDFVIEWERCALL PdfViewerGetLicenseIsValid();
203
204 PDFVIEWERAPI const char* PDFVIEWERCALL PdfViewerGetProductVersionA();
205 PDFVIEWERAPI const WCHAR* PDFVIEWERCALL PdfViewerGetProductVersionW();
206
207 /* Save document */

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208 PDFVIEWERAPI BOOL PDFVIEWERCALL PdfViewerSaveAs(const long handle,
const WCHAR* szPath);
209
210 /* Outlines */
211 PDFVIEWERAPI BOOL PDFVIEWERCALL
PdfViewerGetOutlineItems(CDocumentHandle* pHandle, int iParentID,
TPdfViewerOutlineItem** pItems, int* pCount);
212 PDFVIEWERAPI BOOL PDFVIEWERCALL
PdfViewerDisposeOutlineItems(TPdfViewerOutlineItem* pItems, int nCount);
213
214 /* Document properties */
215 PDFVIEWERAPI int PDFVIEWERCALL
PdfViewerGetPageCount(CDocumentHandle* pHandle);
216 PDFVIEWERAPI CPageHandle* PDFVIEWERCALL
PdfViewerGetPageRect(CDocumentHandle* pHandle, int iPage, double* width, double*
height);
217
218 PDFVIEWERAPI int PDFVIEWERCALL
PdfViewerGetRotation(CDocumentHandle* pHandle, int iPage);
219 PDFVIEWERAPI BOOL PDFVIEWERCALL PdfViewerDraw(CDocumentHandle*
pHandle, int iPage,
220 int iWidth, int iHeight, void* pBuffer, int iRotation,
221 int iTargetX, int iTargetY, int iTargetWidth, int iTargetHeight,
222 double dSourceX, double dSourceY, double dSourceWidth, double dSourceHeight);
223 PDFVIEWERAPI TLayoutMode PDFVIEWERCALL
PdfViewerGetPageLayout(CDocumentHandle* pHandle);
224 PDFVIEWERAPI TDestination PDFVIEWERCALL
PdfViewerGetOpenActionDestination(CDocumentHandle* pHandle, int* iPageNo, double*
dLeft, double* dTop, double* dRight, double* dBottom, double* dZoom);
225 PDFVIEWERAPI TDestination PDFVIEWERCALL parseDestinationType(const char*
szDestinationType);
226 PDFVIEWERAPI BOOL PDFVIEWERCALL
PdfViewerExtractTextFragments(CDocumentHandle* pHandle, int iPage,
TPdfTextFragment** pExtractedTexts, int* pCount);
227 PDFVIEWERAPI void PDFVIEWERCALL
PdfViewerDisposeTextFragments(TPdfTextFragment* pExtractedTexts, int nCount);
228
229 /* Annotations */
230 PDFVIEWERAPI BOOL PDFVIEWERCALL
PdfViewerGetAnnotationsOnPage(CDocumentHandle* pHandle, int iPage, TPdfAnnotation**
pAnnotations, int* pCount);
231 PDFVIEWERAPI void PDFVIEWERCALL
PdfViewerDisposeAnnotationItems(TPdfAnnotation* pAnnotations, int iCount);
232 PDFVIEWERAPI void PDFVIEWERCALL
PdfViewerDisposeSingleAnnotation(TPdfAnnotation* pAnnotation);
233 PDFVIEWERAPI int PDFVIEWERCALL
PdfViewerUpdateAnnotation(CDocumentHandle* pDocument, CAnnotationHandle* annot, int
iPage, double rect[], const WCHAR* content, const WCHAR* label);
234 PDFVIEWERAPI TPdfAnnotation* PDFVIEWERCALL
PdfViewerCreateAnnotation(CDocumentHandle* pHandle, TAnnotationType eType, int
iPage, double r[], int iLen);
235 PDFVIEWERAPI void PDFVIEWERCALL
PdfViewerDeleteAnnotation(CAnnotationHandle* annot);
236
237 /* Error Handling */
238 PDFVIEWERAPI TViewerError PDFVIEWERCALL PdfViewerGetLastError();
239 PDFVIEWERAPI size_t PDFVIEWERCALL PdfViewerGetLastErrorMessageA(char*
pBuffer, size_t nBufferSize);
240 PDFVIEWERAPI size_t PDFVIEWERCALL
PdfViewerGetLastErrorMessageW(WCHAR* pBuffer, size_t nBufferSize);
241
242 #ifdef __cplusplus
243 }
244 #endif
245
246 #endif /* _PDFVIEWERAPI_INCLUDED */
247

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