```
1 #pragma once
 2 #include "CTextLineObject.h"
 5 class CTextEditorObject :
       public CAppObject
7 {
 8 public:
       // Public contructors
10
       CTextEditorObject (CRect bounds, CString ID, BOOL lineNums, int
         maxLines = 0, int defBoxHeight = 0, BOOL active = FALSE,
         std::vector<CString> text = {L""}, std::vector<int> line =
         {1}, int lineOffset = 0);
11
       ~CTextEditorObject();
12
13
       // Public implementations
14
       int draw(CDC* pDc, CSize textExtent, int xScrollPosition, int
         returnNewLines, BOOL printing, CRect printAreaLength = CRect
          ());
15
16
       // Public getters, setters and checkers
17
       int getCaretPos();
18
       CPoint getCaretPoint(CSize caretSize);
19
       CSize getTextExtent();
20
       void setTextExtent(CSize size);
21
22
       int getRecentPos();
2.3
       BOOL pointHighlighted (CPoint point);
2.4
25
       BOOL hasHighlight();
26
       void hlghtingOff();
27
       CRect getHighlightClippingRect();
28
       CRgn* getHighlightExactRgn(int x offset, int y offset);
29
       int getStartLine();
30
       BOOL isHlghtMultiline();
31
       int lineHighlight(int line);
32
       // RETURNS 0 for none
       //
33
                    1 for partially highlighted
34
                    2 for line highlighted
       //
35
36
       std::vector <int> iGetLineNum(int a = 0);
37
       CString sGetLineNum(int a = 0);
38
       void incrementSublines(int subline, int val);
39
40
       int getActiveLine();
41
       int getBlockLine();
42
       int getPrintLine();
43
       CString getLineText(int line = 0);
44
       CRect getLineBounds(int line = 0);
45
       CString getHighlightedText();
46
       int getLineTextWidth();
47
       int getNumLines();
48
       int getBoxHeight(BOOL default = FALSE);
49
50
       virtual void setActive(BOOL active);
51
       virtual void move(int x, int y);
```

```
...urce\repos\DesignArk\DesignArk\CTextEditorObject.h
```

```
52
        virtual void setBounds(CRect bounds);
53
        std::tuple<CRect, int> getPrintBounds(int returnNewLines, int
          printAreaLength);
54
 55
        int getCursorArrow();
56
57
        void initialise();
58
59
        // Public message handlers
60
        virtual void OnSize(UINT nType, int x, int y);
 61
62
        virtual BOOL OnLButtonUp(UINT nFlags, CPoint point);
63
        virtual BOOL OnLButtonDown (UINT nFlags, CPoint point);
64
        virtual void OnLButtonDblClk(UINT nFlags, CPoint point);
        virtual void OnRButtonUp(UINT nFlags, CPoint point);
65
66
        virtual void OnRButtonDown(UINT nFlags, CPoint point);
67
        virtual BOOL OnMouseMove(UINT nFlags, CPoint point);
68
69
        virtual int OnRecieveText(CString text, BOOL open = FALSE);
70
        virtual void OnRecieveBackspace();
71
        virtual void OnRecieveTab();
72
        virtual void OnRecieveReturn(BOOL open = FALSE);
73
74
        virtual void OnKeyDown(UINT nChar, UINT nRepCnt, UINT nFlags);
75
        virtual BOOL OnContextMenu (CWnd* pWnd, CPoint point);
76
77 private:
78
79
        // Private Implementations
80
        void setSidebar();
81
        void setHighlighter();
82
        void setBracketsNull();
83
84
        // Private resources
8.5
86
        // Positioning
87
        int activeLine;
88
        int mouseLine;
        int blockLine;
89
90
        int printLine;
91
        int caretPos;
92
93
        // Sizes
        int defBoxHeight;
95
        CSize textExtent;
96
97
        // Highlights
98
        BOOL hlght;
                                // Used to tell the editor that there is?
           a highlight
                                 // Used to tell that the user is
99
        BOOL hlghting;
          currently highlighting
100
        CPoint hlghtStartP;
                                // Stores the start of the highlight
101
        CPoint hlghtEndP;
                                // Stores the end/current mouse pos for >
          the highlighting
                                // Stores the original starting pos in >
102
        int startPos;
          terms of character spaces for the highlight
```

```
103
        int startLine;
                              // Stores the original starting line for?
           the highlight
104
105
        // Recents
106
        BOOL recentHlght;
107
        int recentPos;
108
        int recentLine;
109
110
       // Line stuff
111
        std::vector<CTextLineObject*> lines;
112
        int maxLines;
113
        int lineOffset;
114
       BOOL lineNums;
115
       BOOL hoverSubLine;
116
       BOOL clickSubLine;
117
        CRect sidebar;
118
119
        // Editing
120
        std::vector<std::vector<int>> brackets;
121
122
        /*
123
124
        Brackets contain the positions and types of all the auto
          completed brackets currently in the editor.
125
        Auto-brackets must always be on the same line and it will only
          be auto for as long the user is editing that line.
126
127
        Each record in brackets contain three integers.
128
129
        [x][0] contains the position of the first bracket.
        [x][1] contains the position of the second bracket.
130
131
        [x][2] contains the type of bracket that has been saved.
132
133
        if [x][2] == 0: type = (
134
                     1 : type = {
135
                     2 : type = [
136
                     3 : type = "
137
                     4 : type = '
138
139
140
141
142
        BOOL bracketContains (int value, int& itPos, int type, int side = >
           1);
143
        void moveBrackets(int val, int index);
144
145
        // Stuff for view
146
        int cursor arrow;
        BOOL lMouseDown;
147
148 };
149
150
```