```
 1: unit Settings;
 2:
 3: {$mode objfpc}{$H+}
 4:
 5: //============================================================================================
 6: //
 7: // Unit : Settings.pas
 8: //
 9: // Description : This module provides
10: //
11: // Called By : AppInit : ShowInit
12: //             MaintenanceTypes : TfrmMaintenanceTypes.DefaultRVFileExists
13: //             RVTypes : TfrmRVTypes.DefaultRVFileExists
14: //
15: // Calls : HUtils : ValidDirectoryCharacter
16: //
17: // Ver. : 1.00
18: //
19: // Date : 16 Mar 2015
20: //
21: //============================================================================================
22:
23: interface
24:
25: uses
26:   Classes, SysUtils, FileUtil, Forms, Controls, Graphics, Dialogs, Buttons,
27:   StdCtrls, INIFiles,
28:   // Application units
29:   HUtils;
30:
31: type
32:
33:   { TfrmSettings }
34:
35:   TfrmSettings = class(TForm)
36:     bbtOK: TBitBtn;
37:     bbtCancel: TBitBtn;
38:     edtAppPath: TEdit;
39:     edtLogsPath: TEdit;
40:     edtDataPath: TEdit;
41:     stxAppPath: TStaticText;
42:     stxLogPath: TStaticText;
43:     stxLogsPath: TStaticText;
44:     procedure bbtCancelClick(Sender: TObject);
45:     procedure bbtOKClick(Sender: TObject);
46:     procedure edtDataPathKeyPress(Sender: TObject; var Key: char);
47:     procedure edtLogsPathKeyPress(Sender: TObject; var Key: char);
48:     procedure FormCreate(Sender: TObject);
49:     procedure FormShow(Sender: TObject);
50:   private
51:     { private declarations }
52:     fNewSettingsFile : boolean;
53:     fAppPath : string;
54:     fLogsPath : string;
55:     fDataPath : string;
56:     procedure SetAppPath ( value : string );
57:     procedure SetLogsPath ( value : string );
58:     procedure SetDataPath ( value : string );
59:   public
60:     { public declarations }
```

```
 61:     const
 62:       cstrDefLogsDirName = 'Logs';
 63:       cstrDefDataDirName = 'Data';
 64:     var
 65:       vstrSettingsFileName : string;
 66:     procedure ReadSettingsFile;
 67:     procedure WriteSettingsFile;
 68:   published
 69:     { published porperties }
 70:     property blnNewSettingsFile : boolean
 71:       read fNewSettingsFile write fNewSettingsFile;
 72:     property strAppPath : string
 73:       read fAppPath write SetAppPath;
 74:     property strLogsPath : string
 75:       read fLogsPath write SetLogsPath;
 76:       property strDataPath : string
 77:       read fDataPath write SetDataPath;
 78:   end;
 79:
 80: var
 81:   frmSettings: TfrmSettings;
 82:
 83:   vstrOriginalLogsPath : string;
 84:   vstrOriginalDataPath : string;
 85:
 86: implementation
 87:
 88: {$R *.lfm}
 89:
 90: const
 91:
 92:   cstrSettingsFileName = 'Settings.cfg';
 93:
 94:   cstrSectionApplication = 'APPLICATION';
 95:   cstrKeyNewSettingsFile = 'New Settings File';
 96:   cstrKeyLogsPath = 'Logs Path';
 97:   cstrKeyDataPath = 'Data Path';
 98:
 99: var
100:
101:   SettingsFile : TINIFile;
102:
103: //=============================================================================================
104: //          PRIVATE ROUTINES
105: //=============================================================================================
106: procedure TfrmSettings.SetAppPath ( Value : string );
107: begin
108:   if Value <> fAppPath then
109:   begin
110:     fAppPath := Value + '\';
111:     edtAppPath.Text := fAppPath;
112:   end;// if Value <> fAppPath
113: end;// procedure TfrmSettings.SetAppPath
114:
115: //=============================================================================================
116: procedure TfrmSettings.SetLogsPath ( Value : string );
117: begin
118:   if Value <> fLogsPath then
119:   begin
120:     fLogsPath := Value + '\';
```

```
121:     edtLogsPath.Text := fLogsPath;
122:   end;// if Value <> fLogsPath
123: end;// procedure TfrmSettings.SetLogsPath
124:
125: //=============================================================================================
126: procedure TfrmSettings.SetDataPath ( Value : string );
127: begin
128:   if Value <> fDataPath then
129:   begin
130:     fDataPath := Value + '\';
131:     edtDataPath.Text := fDataPath;
132:   end;// if Value <> fDataPath
133: end;// procedure TfrmSettings.SetDataPath
134:
135: //=============================================================================================
136: //          PUBLIC ROUTINES
137: //=============================================================================================
138:
139: //=============================================================================================
140: //          SUPPPORT ROUTINES
141: //=============================================================================================
142:
143: //=============================================================================================
144: //          MENU ROUTINES
145: //=============================================================================================
146:
147: //=============================================================================================
148: //          FILE ROUTINES
149: //=============================================================================================
150: procedure TfrmSettings.ReadSettingsFile;
151:
152: var
153:   TStr : string;
154:
155: begin
156:
157:   SettingsFile := TINIFile.Create(vstrSettingsFileName);
158:
159:   fNewSettingsFile := SettingsFile.ReadBool(cstrSectionApplication, cstrKeyNewSettingsFile,
160:                                                                     True);
161:   fLogsPath := SettingsFile.ReadString(cstrSectionApplication, cstrKeyLogsPath,
162:                                                                     fLogsPath);
163:   fDataPath := SettingsFile.ReadString(cstrSectionApplication, cstrKeyDataPath,
164:                                                                     fDataPath);
165:
166: end;// procedure TfrmSettings.ReadSettingsFile
167:
168: //=============================================================================================
169: procedure TfrmSettings.WriteSettingsFile;
170: begin
171:
172:   SettingsFile.WriteBool(cstrSectionApplication, cstrKeyNewSettingsFile, fNewSettingsFile);
173:   SettingsFile.WriteString(cstrSectionApplication, cstrKeyLogsPath, fLogsPath);
174:   SettingsFile.WriteString(cstrSectionApplication, cstrKeyDataPath, fDataPath);
175:
176:   SettingsFile.UpdateFile;
177:   SettingsFile.Free;
178:
179: end;// procedure TfrmSettings.WriteSettingsFile
180:
```

```
181: //=============================================================================================
182: //          COMMAND BUTTONS ROUTINES
183: //=============================================================================================
184: procedure TfrmSettings.bbtOKClick(Sender: TObject);
185:
186: const
187:   cbytMinLogsPathLength = 3;
188:   cbytMinDataPathLength = 3;
189:
190: begin
191:
192:   // Validate the settings
193:
194:   // LogsPath
195:   if edtLogspath.Text <> vstrOriginalLogsPath then
196:   begin
197:
198:     if Length(edtLogspath.Text) < cbytMinLogsPathLength then
199:     begin
200:       showmessage('Invalid LogsPath');
201:       ModalResult := MrNone;
202:       edtLogsPath.SetFocus;
203:       Exit;
204:     end;// if Length(edtLogspath.Text) < cbytMinLogsPathLength
205:
206:     if (edtLogspath.Text[Length(edtLogspath.Text)] <> '\') then
207:       edtLogspath.Text := edtLogspath.Text + '\' ;
208:
209:     fLogsPath:= edtLogspath.Text;
210:
211:     // DataPath
212:     if Length(edtDatapath.Text) < cbytMinDataPathLength then
213:     begin
214:       showmessage('Invalid DataPath');
215:       ModalResult := MrNone;
216:       edtDataPath.SetFocus;
217:       Exit;
218:     end;// if Length(edtDataPath.Text) < cbytMinDataPathLength
219:
220:     if (edtDataPath.Text[Length(edtDataPath.Text)] <> '\') then
221:       edtDataPath.Text := edtDataPath.Text + '\' ;
222:
223:     fDataPath:= edtDataPath.Text;
224:
225:   end;// if edtDataPath.Text <> fDataPath
226:
227: end;// procedure TfrmSettings.bbtOKClick
228:
229: //=============================================================================================
230: procedure TfrmSettings.bbtCancelClick(Sender: TObject);
231: begin
232:   fLogsPath := vstrOriginalLogsPath;
233:   edtLogsPath.Text := fLogsPath;
234: end;// procedure TfrmSettings.bbtCancelClick
235:
236: //=============================================================================================
237: //          CONTROL ROUTINES
238: //=============================================================================================
239:
240: //=============================================================================================
```

```
241: //          ON CLICK ROUTINES
242: //=============================================================================================
243:
244: //=============================================================================================
245: //          ON CHANGE ROUTINES
246: //=============================================================================================
247:
248: //=============================================================================================
249: //          KEYPRESS ROUTINES
250: //=============================================================================================
251: procedure TfrmSettings.edtLogsPathKeyPress(Sender: TObject; var Key: char);
252: begin
253:   Key := ValidDirectoryCharacter(Key);
254: end;// procedure TfrmSettings.edtLogsPathKeyPress
255:
256: //=============================================================================================
257: procedure TfrmSettings.edtDataPathKeyPress(Sender: TObject; var Key: char);
258: begin
259:   Key := ValidDirectoryCharacter(Key);
260: end;// procedure TfrmSettings.edtDataPathKeyPress
261:
262: //=============================================================================================
263: //          FORM ROUTINES
264: //=============================================================================================
265: procedure TfrmSettings.FormCreate(Sender: TObject);
266: begin
267:
268:     vstrSettingsFileName := fAppPath + cstrSettingsFileName;
269:
270: end;// procedure TfrmSettings.FormCreate
271:
272: //=============================================================================================
273: procedure TfrmSettings.FormShow(Sender: TObject);
274: begin
275:
276:   // Save the Original Data Elements
277:   vstrOriginalLogsPath := fLogsPath;
278:   edtLogsPath.Text := fLogsPath;
279:
280:   vstrOriginalDataPath := fDataPath;
281:   edtDataPath.Text := fDataPath;
282:
283: end;// procedure TfrmSettings.FormShow
284:
285: //=============================================================================================
286:
287: end.// unit Settings
288:
```