```
1 using WcfService.domain.order;
 2 using System;
 3 using System.Collections.Generic;
 4 using System.IO;
 5 using System.Linq;
 6 using System.Net.Http;
 7 using System.Runtime.Serialization;
 8 using System.ServiceModel;
 9 using System.ServiceModel.Web;
10 using System.Text;
11
12 namespace WcfService
13 {
14
        [ServiceContract]
15
        public interface IRestService
16
17
            [OperationContract]
18
            [WebInvoke(Method = "GET",
19
                ResponseFormat = WebMessageFormat.Json,
20
                BodyStyle = WebMessageBodyStyle.Wrapped,
                UriTemplate = "getOrder/{orderNumber}")]
21
22
            OrderConfirmation getOrder(string orderNumber);
23
24
            [OperationContract]
25
            [WebInvoke(Method="GET",
                ResponseFormat = WebMessageFormat.Json,
26
27
                BodyStyle = WebMessageBodyStyle.Wrapped,
                UriTemplate = "getAllActiveOrders")]
28
29
            List<OrderConfirmation> getAllActiveOrders();
30
31
            [OperationContract]
            [WebInvoke(Method = "GET",
32
33
                ResponseFormat = WebMessageFormat.Json,
34
                BodyStyle = WebMessageBodyStyle.Wrapped,
                UriTemplate = "getUpdates")]
35
36
            int getUpdates();
37
38
39
            [OperationContract]
40
            [WebInvoke(Method = "POST",
41
                RequestFormat = WebMessageFormat.Json,
42
                UriTemplate = "addOrderConfirmation")]
43
            string addOrderConfirmation(List<string> fileContent);
44
45
            [OperationContract]
            [WebInvoke(Method = "POST",
46
47
                UriTemplate = "addNote",
48
                RequestFormat = WebMessageFormat.Json,
49
                BodyStyle = WebMessageBodyStyle.Wrapped,
50
                ResponseFormat = WebMessageFormat.Json)]
51
            bool addNote(Stream stream);
52
        }
53
   }
54
```

```
using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Runtime.Serialization;
 5 using System.ServiceModel;
 6 using System.Text;
 7 using WcfService.domain.order;
 8 using System.Net.Http;
9 using System.IO;
10 using System.Web;
11 using System.Net;
12 using System.Web.Hosting;
13 using System.ServiceModel.Web;
14 using WcfService.domain.data;
15 using WcfService.technical;
16
17 namespace WcfService
18 {
19
       public class RestService : IRestService
20
21
           public static int Updates = 0;
22
23
           /// <summary>
24
            /// Gets an order by the orders number
25
            /// </summary>
           /// <param name="orderNumber"></param>
26
27
           /// <returns></returns>
28
           OrderConfirmation IRestService.getOrder(string orderNumber)
29
            {
                return DBHandler.Instance.getOrder(orderNumber);
30
31
            }
32
           /// <summary>
33
34
            /// Tries to create a order confirmation file from a given string
            /// which then is parsed into an object by the OrderParser and stored >
35
             on the DB.
36
            /// </summary>
37
            /// <param name="fileContent">String array of each line in the file, >
             first line given is the filename/param>
38
            /// <returns></returns>
           public string addOrderConfirmation(List<string> fileContent)
39
40
41
                try
42
                {
                    string fileName = fileContent[0].Split('.')[0];
43
                    string fileExtension = fileContent[0].Split('.')[1];
44
45
                    FileInfo fileInfo = new FileInfo(Path.Combine
                      (HostingEnvironment.MapPath("~/Order/" + fileName + "/"),
                      fileName + "." + fileExtension));
46
                    if (fileInfo.Exists)
47
48
                        return "ERROR: File already exists.";
49
                    fileInfo.Directory.Create();
50
51
                    using (var output = new StreamWriter(File.Create
```

```
...kken\SK-4Sem\C#\SKServer\WcfService1\RestService.svc.cs
```

```
(fileInfo.FullName), Encoding.Default))
 52
                     {
 53
                         for (int i = 1; i < fileContent.Count; i++)</pre>
 54
                              output.WriteLine(fileContent[i]);
 55
 56
                         }
 57
                         output.Flush();
 58
                         output.Close();
 59
                     }
 60
                     OrderConfirmation oc = OrderParser.Instance.readOrder
 61
                       (fileInfo.FullName);
 62
 63
                     DBHandler.Instance.createOrder(oc);
 64
 65
                 catch (IOException)
 66
                 {
                     return "ERROR: File was not uploaded correctly.";
 67
 68
 69
                 Updates++;
                 return "OK: File was successfully uploaded to the service.";
 70
             }
 71
 72
 73
             /// <summary>
 74
             /// Returns all the active orders from the Database
 75
             /// </summary>
 76
             /// <returns>List of OrderConfirmation</returns>
 77
             public List<OrderConfirmation> getAllActiveOrders()
 78
             {
                 return DBHandler.Instance.getAllOrdersOfStatus("Active");
 79
 80
             }
 81
             public int getUpdates()
 82
 83
 84
                 return Updates;
             }
 85
 86
 87
             /// <summary>
             /// Saves the note from the Android and stores it in the Database
 88
 89
             /// </summary>
             /// <param name="stream">Stream containing note information</param>
 90
             /// <returns></returns>
 91
 92
             public bool addNote(Stream stream)
 93
                 string dataText = "";
 94
 95
                 try
 96
                 {
 97
                     StreamReader sr = new StreamReader(stream, Encoding.UTF8);
 98
 99
                     dataText = sr.ReadToEnd().Replace("\"", "");
                     int index = dataText.IndexOf(';');
100
                     string orderNumber = dataText.Substring(0, index).Trim();
101
102
                     string value = dataText.Substring(index + 1).Trim();
103
                     DBHandler.Instance.createNotes(orderNumber, new OrderNote
104
                       (value));
```

```
...kken\SK-4Sem\C#\SKServer\WcfService1\RestService.svc.cs
105 }
```

```
106
                catch (Exception)
107
                {
108
                    return false;
109
                }
                Updates++;
110
111
                return true;
112
           }
113
        }
114 }
115
```

```
1 using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Runtime.Serialization;
 5 using System.ServiceModel;
 6 using System.ServiceModel.Web;
 7 using System.Text;
 8 using System.Web.UI;
 9 using WcfService.domain.order;
10
11 namespace WcfService1
12 {
13
       // NOTE: You can use the "Rename" command on the "Refactor" menu to change >
         the interface name "IServiceWGet" in both code and config file together.
       [ServiceContract]
14
       public interface IServiceWGet
15
16
            [OperationContract]
17
            [WebInvoke(Method = "GET",
18
19
            ResponseFormat = WebMessageFormat.Json,
20
            BodyStyle = WebMessageBodyStyle.Wrapped,
           UriTemplate = "getUpdates")]
21
            int getUpdates();
22
23
24
            [OperationContract]
            [WebInvoke(Method = "GET",
25
26
                 ResponseFormat = WebMessageFormat.Json,
                 BodyStyle = WebMessageBodyStyle.Wrapped,
27
28
                 UriTemplate = "getAllActiveOrders")]
29
           List<OrderConfirmation> getAllActiveOrders();
30
       }
31 }
32
```

```
1 using System;
 2 using System.Collections.Generic;
 3 using System.IO;
 4 using System.Linq;
 5 using System.Runtime.Serialization;
 6 using System.ServiceModel;
 7 using System.Text;
 8 using System.Web.Hosting;
 9 using WcfService;
10 using WcfService.domain.data;
11 using WcfService.domain.order;
12 using WcfService.technical;
13
14 namespace WcfService1
15 {
       // NOTE: You can use the "Rename" command on the "Refactor" menu to change >
16
         the class name "ServiceWGet" in code, svc and config file together.
       // NOTE: In order to launch WCF Test Client for testing this service,
17
                                                                                   P
         please select ServiceWGet.svc or ServiceWGet.svc.cs at the Solution
         Explorer and start debugging.
18
       public class ServiceWGet : IServiceWGet
19
20
            public List<OrderConfirmation> getAllActiveOrders()
21
            {
22
                return DBHandler.Instance.getAllOrdersOfStatus("Active");
23
            }
24
           public int getUpdates()
25
26
27
                return RestService.Updates;
28
            }
29
       }
30 }
31
```

```
1 using WcfService.domain.order;
 2 using System;
 3 using System.Collections.Generic;
 4 using System.Data.SqlClient;
 5 using System.Data;
 6
 7 namespace WcfService.technical
 8
 9
        class DBHandler
10
        {
11
            private static DBHandler instance;
12
13
            private string dbName;
14
            private string dbTable;
            private string connectionString;
15
16
            /// <summary>
17
18
            /// Constructs a Singleton
19
            /// </summary>
20
            public static DBHandler Instance
21
            {
22
                get
23
                {
24
                    if (instance == null) instance = new DBHandler();
                    return instance;
25
26
27
                private set
28
29
                    instance = value;
30
                }
            }
31
32
            /// <summary>
33
34
            /// Reads the Properties File for the Connection information
35
            /// </summary>
36
            private DBHandler() {
                domain.Properties prop = new domain.Properties("database");
37
38
                prop.reload();
39
                if (!prop.keyExists("databaseName"))
                    prop.set("databaseName", "localhost");
40
                if (!prop.keyExists("databaseTable"))
41
                    prop.set("databaseTable", "SKDB");
42
43
                prop.Save();
                dbName = prop.get("databaseName");
44
45
                dbTable = prop.get("databaseTable");
                connectionString = String.Format("Data Source={0};Initial Catalog= →
46
                  {1};Integrated Security=True", dbName, dbTable);
            }
47
48
49
            // Create Methods
50
            /// <summary>
51
            /// Recieves the OrderConfirmation Object,
52
53
            /// which then is used create an order on the database.
54
            /// </summary>
            /// <param name="orderConfirmation"></param>
55
```

```
...\SK-4Sem\C#\SKServer\WcfService1\Technical\DBHandler.cs
```

```
public void createOrder(OrderConfirmation orderConfirmation)
56
57
58
                try
59
                {
60
                    using (SqlConnection connection = new SqlConnection
                      (connectionString))
61
62
                        connection.Open();
                        using (SqlCommand command = new SqlCommand("createOrder", →
63
                        connection) { CommandType = CommandType.StoredProcedure })
64
65
                            //Parsing arrays of strings to a complete string
                            string di = "";
66
67
                            foreach (string str in orderConfirmation.DeliveryInfo)
                                 di += str + ";";
68
69
                            di.Substring(0, di.Length - 1);
70
71
                            string adi = "";
72
                            foreach (string str in
73
                        orderConfirmation.AltDeliveryInfo)
74
                                adi += str + ";";
                            adi.Substring(0, adi.Length - 1);
75
76
77
                            command.Parameters.Add(new SqlParameter
                        ("@OrderNumber", SqlDbType.VarChar, 64));
                            command.Parameters["@OrderNumber"].Value =
78
                        orderConfirmation.OrderNumber;
79
                            command.Parameters.Add(new SqlParameter("@OrderName",
                        SqlDbType.VarChar, 64));
                            command.Parameters["@OrderName"].Value =
80
                        orderConfirmation.OrderName;
                            command.Parameters.Add(new SqlParameter("@Delivery",
81
                        SqlDbType.VarChar, 256));
                            command.Parameters["@Delivery"].Value = di;
82
                            command.Parameters.Add(new SqlParameter
                                                                                    P
83
                        ("@AltDelivery", SqlDbType.VarChar, 256));
84
                            command.Parameters["@AltDelivery"].Value = adi;
85
                            command.Parameters.Add(new SqlParameter
                        ("@HousingAssociation", SqlDbType.VarChar, 64));
86
                            command.Parameters["@HousingAssociation"].Value =
                        orderConfirmation.HousingAssociation;
                            command.Parameters.Add(new SqlParameter("@StartDate",
87
                        SqlDbType.Date));
                            command.Parameters["@StartDate"].Value =
88
                        orderConfirmation.ProducedDate.ToString("yyyy-MM-dd");
89
                            command.Parameters.Add(new SqlParameter
                        ("@DeliveryDate", SqlDbType.Date));
90
                            command.Parameters["@DeliveryDate"].Value =
                        orderConfirmation.OrderDate.ToString("yyyy-MM-dd");
91
                            command.Parameters.Add(new SqlParameter
                        ("@DeliveryWeek", SqlDbType.VarChar, 32));
                            command.Parameters["@DeliveryWeek"].Value =
92
                        orderConfirmation.Week;
93
                            command.Parameters.Add(new SqlParameter
                        ("@BluePrintLink", SqlDbType.VarChar, 256));
```

```
...\SK-4Sem\C#\SKServer\WcfService1\Technical\DBHandler.cs
 94
                             command.Parameters["@BluePrintLink"].Value = "";
 95
                             command.Parameters.Add(new SqlParameter
                         ("@RequisitionLink", SqlDbType.VarChar, 256));
 96
                             command.Parameters["@RequisitionLink"].Value = "";
 97
                             command.Parameters.Add(new SqlParameter
                         ("@ProgressStatus", SqlDbType.VarChar, 16));
                             command.Parameters["@ProgressStatus"].Value =
 98
                         orderConfirmation.Status;
 99
                             command.Parameters.Add(new SqlParameter("@CompanyID",
                         SqlDbType.Int));
                             command.Parameters["@CompanyID"].Value = 1;
100
101
                             command.ExecuteNonQuery();
102
                         }
103
                         connection.Close();
104
105
                         foreach (OrderCategory category in
                         orderConfirmation.Categories)
106
107
                             createOrderCategory(orderConfirmation.OrderNumber,
                         category);
108
                     }
109
110
                 catch (SqlException ex)
111
112
                     Console.WriteLine(ex.Message);
113
114
                     Console.WriteLine(ex.StackTrace);
115
                     throw;
116
                 }
117
             }
118
119
120
             /// <summary>
121
             /// Stores a note on the database, linked to a given OrderNumber.
             /// </summary>
122
             /// <param name="orderNumber">OrderNumber of an order</param>
123
124
             /// <param name="note">Note to store</param>
125
             /// <returns></returns>
126
             public List<OrderNote> createNotes(string orderNumber, OrderNote note)
127
128
                 List<OrderNote> result = new List<OrderNote>();
129
                 try
130
                 {
131
                     using (SqlConnection connection = new SqlConnection
                       (connectionString))
132
                     {
133
                         connection.Open();
134
                         using (SqlCommand command = new SqlCommand("createNotes", →
                         connection) { CommandType = CommandType.StoredProcedure })
135
                             command.Parameters.Add(new SqlParameter
136
                         ("@OrderNumber", SqlDbType.VarChar, 64));
                             command.Parameters["@OrderNumber"].Value =
137
                         orderNumber;
138
                             command.Parameters.Add(new SqlParameter("@Content",
                         SqlDbType.VarChar, 1024));
```

```
...\SK-4Sem\C#\SKServer\WcfService1\Technical\DBHandler.cs
139
                             command.Parameters["@Content"].Value = note.Text;
140
                             command.ExecuteNonQuery();
141
                         }
142
                         connection.Close();
143
                     }
144
                 }
                 catch (SqlException ex)
145
146
                 {
147
                     Console.WriteLine(ex.Message);
148
                 }
149
                 return result;
150
             }
151
152
             /// <summary>
             /// Stores a category from an order on the database, linked to a given ₹
153
                OrderNumber.
154
             /// </summary>
             /// <param name="orderNumber">OrderNumber of an order</param>
155
156
             /// <param name="category">Category to store</param>
157
             /// <returns></returns>
158
             public List<OrderCategory> createOrderCategory(string orderNumber,
               OrderCategory category)
159
160
                 List<OrderCategory> result = new List<OrderCategory>();
161
                 try
162
                 {
                     using (SqlConnection connection = new SqlConnection
163
                       (connectionString))
164
                     {
165
                         int categoryID = -1;
166
                         connection.Open();
167
                         using (SqlCommand command = new SqlCommand
                         ("createOrderCategory", connection) { CommandType =
                         CommandType.StoredProcedure })
168
```

```
169
                             command.Parameters.Add(new SqlParameter
                         ("@OrderNumber", SqlDbType.VarChar, 64));
170
                             command.Parameters["@OrderNumber"].Value =
                         orderNumber;
                             command.Parameters.Add(new SqlParameter
171
                         ("@CategoryName", SqlDbType.VarChar, 64));
                             command.Parameters["@CategoryName"].Value =
172
                         category.Name;
173
                             //command.Parameters.Add(new SqlParameter("@new id",
                         SqlDbType.Int, 0, "fldCategoryID").Direction =
                         ParameterDirection.Output);
174
                             command.ExecuteNonQuery();
175
176
                             //categoryID = Convert.ToInt32(command.Parameters
                         ["@new_id"].Value);
177
                         }
178
                         connection.Close();
179
180
                         //Gets the last ID created, in this case the id for this >
                         Category
181
                         categoryID = getLastID("dbo.TblOrderCategory");
```

```
...\SK-4Sem\C#\SKServer\WcfService1\Technical\DBHandler.cs
```

```
5
```

```
182
183
                         //Creates all the elements for the category
184
                         foreach (OrderElement element in category.Elements)
185
186
                              createOrderElements(element, categoryID);
187
                         }
                     }
188
189
                 }
190
                 catch (SqlException ex)
191
                 {
192
                     Console.WriteLine(ex.Message);
193
                 }
194
                 return result;
195
             }
196
197
             /// <summary>
             /// Stores a element from a category on the database, linked to a
198
               given CategoryID.
199
             /// </summary>
             /// <param name="element">Element to store</param>
200
             /// <param name="categoryId">CategoryID to identify which category the →
201
                element is linked to</param>
             public void createOrderElements(OrderElement element, int categoryId)
202
203
204
                 try
205
                 {
206
                     using (SqlConnection connection = new SqlConnection
                       (connectionString))
207
                     {
208
                         connection.Open();
209
                         using (SqlCommand command = new SqlCommand
                         ("createOrderElements", connection) { CommandType =
                         CommandType.StoredProcedure })
210
                         {
                              command.Parameters.Add(new SqlParameter("@Pos",
211
                         SqlDbType.VarChar, 32));
                              command.Parameters["@Pos"].Value = element.Position;
212
213
                              command.Parameters.Add(new SqlParameter("@Hinge",
                                                                                      7
                         SqlDbType.VarChar, 64));
                              command.Parameters["@Hinge"].Value = element.Hinge;
214
215
                              command.Parameters.Add(new SqlParameter("@Finish",
                         SqlDbType.VarChar, 64));
                              command.Parameters["@Finish"].Value = element.Finish;
216
217
                              command.Parameters.Add(new SqlParameter("@Amount",
                         SqlDbType.VarChar, 32));
                              command.Parameters["@Amount"].Value = element.Amount;
218
                              command.Parameters.Add(new SqlParameter("@Unit",
219
                         SqlDbType.VarChar, 32));
220
                              command.Parameters["@Unit"].Value = element.Unit;
221
                             string info = "";
222
                              foreach (string str in element.ElementInfo)
223
224
                              {
225
                                  info += str + ";";
226
                              }
227
```

```
...\SK-4Sem\C#\SKServer\WcfService1\Technical\DBHandler.cs
228
                             command.Parameters.Add(new SqlParameter("@Text",
                         SqlDbType.VarChar, 256));
229
                             command.Parameters["@Text"].Value = info;
230
                             command.Parameters.Add(new SqlParameter
                         ("@Station4Status", SqlDbType.Bit));
                             command.Parameters["@Station4Status"].Value =
231
                         element.StationStatus[0];
232
                             command.Parameters.Add(new SqlParameter
                         ("@Station5Status", SqlDbType.Bit));
233
                             command.Parameters["@Station5Status"].Value =
                         element.StationStatus[1];
                             command.Parameters.Add(new SqlParameter
234
                         ("@Station6Status", SqlDbType.Bit));
235
                             command.Parameters["@Station6Status"].Value =
                         element.StationStatus[2];
236
                             command.Parameters.Add(new SqlParameter
                         ("@Station7Status", SqlDbType.Bit));
237
                             command.Parameters["@Station7Status"].Value =
                         element.StationStatus[3];
238
                             command.Parameters.Add(new SqlParameter
                         ("@Station8Status", SqlDbType.Bit));
                             command.Parameters["@Station8Status"].Value =
239
                         element.StationStatus[4];
240
                             command.Parameters.Add(new SqlParameter("@CategoryID", →
                          SqlDbType.Int));
                             command.Parameters["@CategoryID"].Value = categoryId;
241
242
243
                             command.ExecuteNonQuery();
244
                         }
245
                         connection.Close();
246
                     }
247
                 }
                 catch (SqlException ex)
248
249
                 {
                     Console.WriteLine(ex.Message);
250
251
                 }
             }
252
253
254
            // Get methods
255
256
            /// <summary>
            /// Get an order from the Database by OrderNumber.
257
             /// This get method also internally gets the order's categories with >
258
               elements.
259
             /// </summary>
             /// <param name="orderNumber">OrderNumber of the order</param>
260
261
             /// <returns></returns>
262
            public OrderConfirmation getOrder(string orderNumber)
263
             {
264
                 OrderConfirmation orderConfirmation = null;
265
                 try
266
                 {
                     using (SqlConnection connection = new SqlConnection
267
                       (connectionString))
268
269
                         connection.Open();
```

```
...\SK-4Sem\C#\SKServer\WcfService1\Technical\DBHandler.cs
270
                         using (SqlCommand command = new SqlCommand("getOrder",
                         connection) { CommandType = CommandType.StoredProcedure })
271
                         {
272
                             command.Parameters.Add(new SqlParameter
                         ("@OrderNumber", SqlDbType.VarChar, 64));
                             command.Parameters["@OrderNumber"].Value =
273
                         orderNumber;
274
275
                             using (SqlDataReader dr = command.ExecuteReader())
276
                             {
277
                                  if (dr.HasRows)
278
                                  {
279
                                     while (dr.Read())
280
                                          orderConfirmation = new OrderConfirmation →
281
                         ();
                                          orderConfirmation.OrderNumber =
282
                                                 //Order Number
                         dr.GetString(0);
283
                                          orderConfirmation.OrderName = dr.GetString →
                         (1);
                                       //Order Name
284
                                          string[] splitName =
285
                                                                                      P
                         orderConfirmation.OrderName.Split('/');
286
                                          orderConfirmation.AlternativeNumber
                                             //Alternative Number
                                              splitName[0] + " " +
287
                                              orderConfirmation.OrderNumber + " " +
288
289
                                              splitName[1];
290
                                          orderConfirmation.ProducedDate =
291
                         dr.GetDateTime(2);
                                                //Start date/produced date
292
                                          orderConfirmation.OrderDate =
                         dr.GetDateTime(3);
                                                   //Delivery date/order date
293
                                          orderConfirmation.Week = dr.GetString
                         (4);
                                            //Delivery week
294
                                          foreach (string line in dr.GetString
                         (5).Split(';'))
                                             //Delivery info
295
                                              orderConfirmation.DeliveryInfo.Add
                         (line);
296
                                          foreach (string line in dr.GetString
                         (6).Split(';'))
                                             //Alt delivery info
297
                                              orderConfirmation.AltDeliveryInfo.Add →
                         (line);
298
                                          orderConfirmation.HousingAssociation =
                         dr.GetString(7); //Housing Association
299
                                          orderConfirmation.Status = dr.GetString
                         (10);
                                           //Status
300
301
                                          //Company info:
302
                                          orderConfirmation.CompanyInfo.Add
                         (dr.GetString(11));
                                                //Name
                                          orderConfirmation.CompanyInfo.Add
303
                         (dr.GetString(12));
                                                //Address
304
                                          orderConfirmation.CompanyInfo.Add
```

(dr.GetString(13));

305

//ZipCode

orderConfirmation.CompanyInfo.Add

```
(dr.GetString(14));
                                               //Phone
306
                                        orderConfirmation.CompanyInfo.Add
                        (dr.GetString(15));
                                              //FaxPhone
307
                                        orderConfirmation.CompanyInfo.Add
                        (dr.GetString(16));
                                              //CVR
308
                                        orderConfirmation.CompanyInfo.Add
                        (dr.GetString(17));
                                              //Email
309
310
                                }
311
                            }
312
                        }
313
                        connection.Close();
314
315
                        //Adds all the categories linked to this order
                        confirmation
316
                        foreach (OrderCategory category in getOrderCategories
                        (orderNumber))
317
                        {
318
                            orderConfirmation.Categories.Add(category);
319
                        }
320
                        foreach (OrderNote note in getNotes(orderNumber))
321
322
                            orderConfirmation.Notes.Add(note);
323
324
                    }
325
                }
326
                catch (Exception ex)
327
328
                    Console.WriteLine(ex.StackTrace);
329
330
                return orderConfirmation;
331
            }
332
333
            /// <summary>
            /// Get a list of Order Confirmations that are active.
334
            /// This get method also internally gets all the orders categories
335
              with elements.
336
            /// </summary>
337
            /// <param name="status"></param>
338
            /// <returns></returns>
            public List<OrderConfirmation> getAllOrdersOfStatus(string status)
339
340
            {
                List<OrderConfirmation> result = new List<OrderConfirmation>();
341
342
                try
343
                {
                    using (SqlConnection connection = new SqlConnection
344
                      (connectionString))
345
346
                        connection.Open();
347
                        using (SqlCommand command = new SqlCommand
                        ("getAllOrdersOfStatus", connection) { CommandType =
                        CommandType.StoredProcedure })
348
349
                            command.Parameters.Add(new SqlParameter
                        ("@ProgressStatus", SqlDbType.VarChar, 64));
350
                            command.Parameters["@ProgressStatus"].Value = status;
```

```
352
                             using (SqlDataReader dr = command.ExecuteReader())
353
354
                                  if (dr.HasRows)
355
                                 {
356
                                      while (dr.Read())
357
358
                                          OrderConfirmation orderConfirmation = new >
                         OrderConfirmation();
359
                                          orderConfirmation.OrderNumber =
                         dr.GetString(0);
                                                 //Order Number
                                          orderConfirmation.OrderName = dr.GetString →
360
                         (1);
                                       //Order Name
361
                                          string[] splitName =
362
                         orderConfirmation.OrderName.Split('/');
                                          orderConfirmation.AlternativeNumber
363
                                             //Alternative Number
364
                                              splitName[0] + " " +
365
                                              orderConfirmation.OrderNumber + " " +
366
                                              splitName[1];
367
368
                                          orderConfirmation.ProducedDate =
                         dr.GetDateTime(2);
                                                //Start date/produced date
369
                                          orderConfirmation.OrderDate =
                         dr.GetDateTime(3);
                                                   //Delivery date/order date
370
                                          orderConfirmation.Week = dr.GetString
                         (4);
                                            //Delivery week
371
                                          foreach (string line in dr.GetString
                         (5).Split(';'))
                                             //Delivery info
372
                                              orderConfirmation.DeliveryInfo.Add
                         (line);
                                          foreach (string line in dr.GetString
373
                         (6).Split(';'))
                                             //Alt delivery info
374
                                              orderConfirmation.AltDeliveryInfo.Add
                         (line);
                                          orderConfirmation.HousingAssociation =
375
                                                                                     P
                         dr.GetString(7); //Housing Association
376
                                          orderConfirmation.Status = dr.GetString
                         (10);
                                           //Status
377
                                          //Company info:
378
379
                                          orderConfirmation.CompanyInfo.Add
                         (dr.GetString(11));
                                                //Name
380
                                          orderConfirmation.CompanyInfo.Add
                                                //Address
                         (dr.GetString(12));
381
                                          orderConfirmation.CompanyInfo.Add
                         (dr.GetInt32(13) + "");
                                                    //ZipCode
382
                                          orderConfirmation.CompanyInfo.Add
                         (dr.GetString(14));
                                                //Phone
                                          orderConfirmation.CompanyInfo.Add
383
                         (dr.GetString(15));
                                                //FaxPhone
384
                                          orderConfirmation.CompanyInfo.Add
                         (dr.GetString(16));
                                                //CVR
385
                                          orderConfirmation.CompanyInfo.Add
                         (dr.GetString(17));
                                                //Email
```

```
...\SK-4Sem\C#\SKServer\WcfService1\Technical\DBHandler.cs
```

```
10
```

```
386
                                          result.Add(orderConfirmation);
387
                                      }
388
                                  }
389
                              }
390
                              connection.Close();
391
                              //Get all categories for all orders
                              foreach (OrderConfirmation orderConfirmation in
392
                         result)
393
                              {
394
                                  foreach (OrderCategory category in
                         getOrderCategories(orderConfirmation.OrderNumber))
395
                                  {
                                      orderConfirmation.Categories.Add(category);
396
397
398
                                  foreach (OrderNote note in getNotes
                         (orderConfirmation.OrderNumber))
399
                                  {
400
                                      orderConfirmation.Notes.Add(note);
401
                                  }
402
                              }
403
                         }
                     }
404
405
406
                 catch (Exception ex)
407
408
                     Console.WriteLine(ex.StackTrace);
409
                 }
410
                 return result;
411
             }
412
413
             /// <summary>
414
             /// Gets a list of Notes by OrderNumber
415
             /// </summary>
416
             /// <param name="orderNumber">OrderNumber of the order</param>
417
             /// <returns></returns>
             public List<OrderNote> getNotes(string orderNumber)
418
419
420
                 List<OrderNote> result = new List<OrderNote>();
421
                 try
422
                 {
                     using (SqlConnection connection = new SqlConnection
423
                       (connectionString))
424
425
                         connection.Open();
                         using (SqlCommand command = new SqlCommand("getNotes",
426
                         connection) { CommandType = CommandType.StoredProcedure })
427
428
                              command.Parameters.Add(new SqlParameter
                         ("@OrderNumber", SqlDbType.VarChar, 64));
429
                              command.Parameters["@OrderNumber"].Value =
                         orderNumber;
430
431
                              using (SqlDataReader dr = command.ExecuteReader())
432
433
                                  if (dr.HasRows)
434
```

```
...\SK-4Sem\C#\SKServer\WcfService1\Technical\DBHandler.cs
435
                                      while (dr.Read())
436
                                      {
                                          result.Add(new OrderNote(dr.GetString
437
                         (2)));
438
                                      }
439
                                  }
440
                              }
441
442
                         connection.Close();
443
                     }
444
                 }
                 catch (Exception ex)
445
446
447
                     Console.WriteLine(ex.StackTrace);
448
449
                 return result;
450
             }
451
452
             /// <summary>
453
             /// Creates a list of Categories by orderNumber
454
             /// </summary>
             /// <param name="orderNumber">OrderNumber of the order</param>
455
456
             /// <returns></returns>
457
             public List<OrderCategory> getOrderCategories(string orderNumber)
458
459
                 List<OrderCategory> result = new List<OrderCategory>();
460
                 try
461
                 {
462
                     using (SqlConnection connection = new SqlConnection
                       (connectionString))
463
                     {
464
                         connection.Open();
465
                         using (SqlCommand command = new SqlCommand
                         ("getCategories", connection) { CommandType =
                         CommandType.StoredProcedure })
466
                              command.Parameters.Add(new SqlParameter
467
                         ("@OrderNumber", SqlDbType.VarChar, 64));
468
                              command.Parameters["@OrderNumber"].Value =
                         orderNumber;
469
470
                              using (SqlDataReader dr = command.ExecuteReader())
471
472
                                  if (dr.HasRows)
473
                                  {
                                      while (dr.Read())
474
475
476
                                          OrderCategory category = new OrderCategory →
                         (dr.GetString(1));
477
                                          result.Add(category);
478
                                      }
479
                                  }
```

}

connection.Close();

}

480

481

482

```
...\SK-4Sem\C#\SKServer\WcfService1\Technical\DBHandler.cs
                                                                                     12
484
                         for (int i = 0; i < result.Count; i++)</pre>
485
486
                             foreach (OrderElement element in getOrderElements(i
                         +1))
487
                                  result[i].Elements.Add(element);
488
489
                             }
490
                         }
491
                     }
492
                 }
493
                 catch (Exception ex)
494
                 {
495
                     Console.WriteLine(ex.StackTrace);
496
                 }
497
                 return result;
498
             }
499
500
             /// <summary>
501
             /// Creates a list of Elements by category ID
502
             /// </summary>
503
             /// <param name="categoryID">The CategoryID which the elements is
               linked to
504
             /// <returns></returns>
505
             public List<OrderElement> getOrderElements(int categoryID)
506
507
                 List<OrderElement> elements = new List<OrderElement>();
508
                 try
509
                 {
510
                     using (SqlConnection connection = new SqlConnection
                       (connectionString))
511
                     {
512
                         connection.Open();
513
                         using (SqlCommand command = new SqlCommand
                         ("getOrderElements", connection) { CommandType =
                         CommandType.StoredProcedure })
514
                             command.Parameters.Add(new SqlParameter("@CategoryID", →
515
                          SqlDbType.VarChar, 64));
516
                             command.Parameters["@CategoryID"].Value = categoryID;
517
                             using (SqlDataReader dr = command.ExecuteReader())
518
519
                             {
520
                                  if (dr.HasRows)
521
                                  {
522
                                      while (dr.Read())
523
524
                                          OrderElement element = new OrderElement
                                                                                      P
                         (dr.GetString(1), dr.GetString(2), dr.GetString(3),
                                                                                      P
                         dr.GetString(4), dr.GetString(5)); //(dr.GetString(0),
                         dr.GetString(1), dr.GetString(2), dr.GetString(3),
                                                                                      P
                         dr.GetString(4));
525
                                          foreach (string str in dr.GetString
                         (6).Split(';'))
526
527
                                              element.ElementInfo.Add(str);
```

}

```
...\SK-4Sem\C#\SKServer\WcfService1\Technical\DBHandler.cs
```

```
13
```

```
529
                                          element.StationStatus[0] = dr.GetBoolean
                         (7);
530
                                          element.StationStatus[0] = dr.GetBoolean
                         (8);
                                          element.StatiorStatus[0] = dr.GetBoolean
531
                         (9);
                                          element.StationStatus[0] = dr.GetBoolean
532
                         (10);
                                          element.StationStatus[0] = dr.GetBoolean
533
                         (11);
                                          elements.Add(element);
534
535
                                      }
                                  }
536
537
                              }
538
539
                          connection.Close();
540
                     }
541
                 }
542
                 catch (Exception ex)
543
                     Console.WriteLine(ex.StackTrace);
544
545
                 }
546
                 return elements;
547
             }
548
549
             /// <summary>
550
             /// Retries the last created ID from a given table name.
551
             /// </summary>
552
             /// <param name="tableName">Table name of the desired ID</param>
             /// <returns></returns>
553
554
             public int getLastID(string tableName)
555
             {
556
                 int id = -1;
557
                 try
                 {
558
                     using (SqlConnection connection = new SqlConnection
559
                       (connectionString))
560
                     {
561
                          connection.Open();
562
                         using (SqlCommand command = new SqlCommand(String.Format
                         ("SELECT IDENT CURRENT('{0}') AS ID", tableName),
                         connection))
                              id = Convert.ToInt32(command.ExecuteScalar());
563
564
                         connection.Close();
                     }
565
566
                 }
                 catch (SqlException ex)
567
568
569
                     Console.WriteLine(ex.Message);
570
                 }
571
                 return id;
572
             }
573
         }
574 }
575
```

```
using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Text;
 5 using System.Threading.Tasks;
 6 using System.IO;
 7 using WcfService.domain.order;
 8 using WcfService.domain.utility;
10 namespace WcfService.domain.data
11 {
12
        public class OrderParser
13
14
            private static OrderParser instance;
15
16
            public static OrderParser Instance
17
                get
18
19
                {
20
                    if (instance == null) instance = new OrderParser();
21
                    return instance;
22
                }
23
                private set
24
                {
25
                    instance = value;
26
                }
27
            }
28
29
            /// <summary>
            /// Singleton constructor. This class can only be created from within.
30
31
            /// </summary>
            private OrderParser()
32
33
            {
34
            }
35
36
            /// <summary>
37
38
            ///
39
            /// </summary>
40
            /// <param name="url"></param>
            public OrderConfirmation readOrder(string filePath)
41
42
            {
                OrderConfirmation result = new OrderConfirmation();
43
                StreamReader stream = null;
44
45
                try
46
                {
                    if (!filePath.ToLower().EndsWith(".e02"))
47
48
49
                        Console.Error.WriteLine("Error: Wrong file type.");
50
                        return null;
                    }
51
52
53
                    if (!File.Exists(filePath))
54
                        Console.Error.WriteLine("Error: File doesn't exist.");
55
56
                        return null;
```

```
...4Sem\C#\SKServer\WcfService1\Domain\Data\OrderParser.cs
```

```
2
```

```
57
 58
 59
                     stream = new StreamReader(filePath, Encoding.Default);
 60
 61
                     int kitchenInfoNumber = 0;
 62
                     OrderElement lastElement = null;
 63
 64
                     while (stream.Peek() > -1)
 65
                          string line = stream.ReadLine();
 66
                          string[] lineSplit = line.Split(';');
 67
 68
                          string[] date;
 69
 70
                         if (lineSplit.Length == 0)
                              continue;
 71
 72
 73
                         switch (lineSplit[0])
 74
 75
                              case "0": // Program header + produced date
 76
 77
                                  date = lineSplit[4].Split('/');
 78
                                  string[] time = lineSplit[5].Split(':');
 79
 80
                                  DateTime dateTime = new DateTime(
 81
                                      ConversionUtil.stringToInt(date[2]),
                                      ConversionUtil.stringToInt(date[1]),
 82
                                      ConversionUtil.stringToInt(date[0]),
 83
 84
                                      ConversionUtil.stringToInt(time[0]),
 85
                                      ConversionUtil.stringToInt(time[1]),
 86
                                      ConversionUtil.stringToInt(time[2]));
 87
 88
                                  result.ProducedDate = dateTime;
 89
                                  break;
 90
                              case "101": // Company Info
                                  result.CompanyInfo.Add(lineSplit[1]);
 91
 92
                                  result.CompanyInfo.Add(lineSplit[3]);
 93
                                  result.CompanyInfo.Add(lineSplit[4]);
 94
                                  result.CompanyInfo.Add(lineSplit[5]);
 95
                                  result.CompanyInfo.Add(lineSplit[20]);
                                  result.CompanyInfo.Add(lineSplit[24]);
 96
 97
                                  result.CompanyInfo.Add(lineSplit[25]);
                                  result.CompanyInfo.Add(lineSplit[30]);
 98
 99
                                  break:
                              case "211": // Delivery Info
100
101
                                  result.DeliveryInfo.Add(lineSplit[1]);
102
                                  result.DeliveryInfo.Add(lineSplit[3]);
103
                                  result.DeliveryInfo.Add(lineSplit[4]);
104
                                  result.DeliveryInfo.Add(lineSplit[5]);
105
                                  result.DeliveryInfo.Add(lineSplit[20]);
106
                                  result.DeliveryInfo.Add(lineSplit[24]);
107
                                  result.DeliveryInfo.Add(lineSplit[25]);
108
                                  break;
                              case "212": // Alternative Delivery Address
109
110
                                  result.AltDeliveryInfo.Add(lineSplit[1]);
                                  result.AltDeliveryInfo.Add(lineSplit[3]);
111
112
                                  result.AltDeliveryInfo.Add(lineSplit[4]);
```

```
...4Sem\C#\SKServer\WcfService1\Domain\Data\OrderParser.cs
```

```
3
```

```
113
                                  result.AltDeliveryInfo.Add(lineSplit[5]);
114
                                  result.AltDeliveryInfo.Add(lineSplit[11]);
115
                                  result.AltDeliveryInfo.Add(lineSplit[19]);
116
                                  result.AltDeliveryInfo.Add(lineSplit[20]);
117
                                  result.AltDeliveryInfo.Add(lineSplit[24]);
                                  result.AltDeliveryInfo.Add(lineSplit[25]);
118
                                  result.AltDeliveryInfo.Add(lineSplit[26]);
119
120
                                  break;
121
                              case "300": // Rightside Info
122
                                  result.OrderNumber = lineSplit[1];
123
                                  result.OrderName = lineSplit[3];
124
                                  date = lineSplit[4].Split('/');
                                  result.OrderDate = new DateTime(
125
126
                                      ConversionUtil.stringToInt(date[2]),
127
                                      ConversionUtil.stringToInt(date[1]),
128
                                      ConversionUtil.stringToInt(date[0]), 12, 0,
                         0);
129
                                 result.Week = lineSplit[7];
130
131
                                  string[] splitName = result.OrderName.Split('/');
132
                                  result.AlternativeNumber =
                                      splitName[0] + " " +
133
                                      result.OrderNumber + " " +
134
135
                                      splitName[1];
136
                                 break;
                              case "410": // Start of kitchen info
137
                                 result.KitchenInfo.Add("KInfo-" +
138
                         kitchenInfoNumber);
139
                                 kitchenInfoNumber++;
140
                                  break;
141
                              case "423": // Title of the order part
142
                                  result.KitchenInfo.Add(lineSplit[2]);
143
                                  break;
144
                              case "424": // Text for the order part (423)
                                  result.KitchenInfo.Add(lineSplit[2]);
145
146
                                 break;
                              case "425": // Finish of the order part
147
148
                                  result.KitchenInfo.Add(lineSplit[2]); // Title
149
                                 result.KitchenInfo.Add(lineSplit[4]); //
                         Description
150
                                 break;
                              case "430": // Order Category Info
151
152
                                  result.Categories.Add(new OrderCategory(lineSplit >
                         [2],ConversionUtil.stringToInt(lineSplit[1])));
153
                              case "500": // Order Element
154
                                  lastElement = new OrderElement(lineSplit[1], "", →
155
                         "", lineSplit[9], lineSplit[10]);
156
157
                                  int metaPos = ConversionUtil.stringToInt(lineSplit >
                         [2]);
                                  if (metaPos > 0)
158
159
                                      lastElement.Position += "." + metaPos;
160
                                  lastElement.ElementInfo.Add(lineSplit[3]);
161
162
                                  lastElement.ElementInfo.Add(lineSplit[8]);
```

```
163
                                  result.findCategoryByParserID
                                                                                       P
                         (ConversionUtil.stringToInt(lineSplit[12])).Elements.Add
                                                                                       P
                         (lastElement);
164
                                  break;
                              case "501": // Order Element - Hinge + Finish
165
166
                                  Console.WriteLine(line);
167
                                  lastElement.Hinge = lineSplit[8];
                                  lastElement.Finish = lineSplit[9];
168
169
                                  break;
170
                              case "502": // Order Element - Extra info
                                  lastElement.ElementInfo.Add(lineSplit[1]);
171
                                  break;
172
173
                              default:
174
                                  break;
175
                         }
                     }
176
177
                 }
                 catch (Exception)
178
179
                 {
180
                     return null;
181
                 }
                 finally
182
183
                 {
184
                     try
185
                     {
                          stream.Close();
186
187
                     catch (NullReferenceException)
188
189
                     { }
190
                 }
191
192
                 //Instantiate the order as Active
193
                 result.Status = "Active";
194
                 return result;
195
             }
196
         }
197 }
198
```

```
using System;
   using System.Collections.Generic;
   using System.Runtime.Serialization;
 3
 4
 5
   namespace WcfService.domain.order
 6
 7
        [DataContract]
 8
       public class OrderConfirmation
 9
10
            [DataMember]
11
            public string OrderNumber { get; set; }
12
            DataMember
13
            public string AlternativeNumber { get; set; }
14
            DataMember
15
            public string OrderName { get; set; }
16
            [DataMember]
17
            public string Week { get; set; }
18
            [DataMember]
19
            public string Status { get; set; }
20
            DataMember
21
            public DateTime OrderDate { get; set; }
22
            [DataMember]
23
            public DateTime ProducedDate { get; set; }
24
            DataMember
25
            public string HousingAssociation { get; set; }
26
            [DataMember]
27
            public List<string> CompanyInfo { get; private set; }
28
            DataMember
29
            public List<string> DeliveryInfo { get; private set; }
30
            [DataMember]
31
            public List<string> AltDeliveryInfo { get; private set; }
32
            DataMember
33
            public List<string> KitchenInfo { get; private set; }
34
            DataMember
            public List<OrderCategory> Categories { get; private set; }
35
36
            [DataMember]
37
            public List<OrderNote> Notes { get; private set; }
38
            [DataMember]
39
            public OrderStatus StationStatus { get; private set; }
40
41
            /// <summary>
42
            /// instanciates the variables
43
            /// </summary>
44
            public OrderConfirmation()
45
            {
                OrderNumber = "";
46
47
                AlternativeNumber = "";
48
                OrderName = "";
                Week = "";
49
                Status = "";
50
                HousingAssociation = "";
51
52
                OrderDate = new DateTime();
53
                ProducedDate = new DateTime();
                CompanyInfo = new List<string>();
54
55
                DeliveryInfo = new List<string>();
56
                AltDeliveryInfo = new List<string>();
```

```
\underline{\dots \backslash SKServer \backslash WcfService1} \backslash Domain \backslash Order \backslash OrderConfirmation.cs
```

```
57
                Categories = new List<OrderCategory>();
58
                Notes = new List<OrderNote>();
59
                KitchenInfo = new List<string>();
60
                StationStatus = new OrderStatus();
61
            }
62
63
            /// <summary>
            /// Fins the orderconfirmation with the given parserID
64
            /// </summary>
65
66
            /// <param name="parserID"></param>
67
            /// <returns></returns>
            public OrderCategory findCategoryByParserID(int parserID)
68
69
            {
70
                foreach (OrderCategory category in Categories)
71
72
                    if (category.ParserID == parserID)
73
                        return category;
74
                }
75
                return null;
76
            }
77
       }
78 }
```

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Runtime.Serialization;
5 using System.Web;
7 namespace WcfService.domain.order
8 {
9
       [DataContract]
10
       public class OrderNote
11
           [DataMember]
12
13
           public string Text { get; set; }
14
15
           public OrderNote(string text)
16
           {
17
               Text = text;
18
           }
19
       }
20 }
```

```
1 using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Runtime.Serialization;
 5 using System.Text;
 6 using System.Threading.Tasks;
 8 namespace WcfService.domain.order
9 {
10
       [DataContract]
       public class OrderCategory
11
12
13
            [DataMember]
14
           public string Name { get; set; }
15
           /// <summary>
           /// Parser ID is used to assemble the categories when reading the E02 >
16
             file.
17
           /// </summary>
18
            public int ParserID { get; set; }
            [DataMember]
           public List<OrderElement> Elements { get; private set; }
20
21
           public OrderCategory(string name)
22
23
            {
24
               Elements = new List<OrderElement>();
25
               Name = name;
26
            }
           public OrderCategory(string name, int parserID)
27
28
29
                Elements = new List<OrderElement>();
30
               Name = name;
31
               ParserID = parserID;
32
            }
33
       }
34 }
35
```

```
1 using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Runtime.Serialization;
 5 using System.Text;
 6 using System.Threading.Tasks;
 8 namespace WcfService.domain.order
 9
10
        [DataContract]
        public class OrderElement
11
12
            [DataMember]
13
14
            public string Position { get; set; }
15
            [DataMember]
16
            public List<string> ElementInfo { get; private set; }
17
            DataMember
18
            public string Hinge { get; set; }
19
            [DataMember]
20
            public string Finish { get; set; }
21
            [DataMember]
            public string Amount { get; set; }
22
23
            DataMember
24
            public string Unit { get; set; }
25
            [DataMember]
            public bool[] StationStatus { get; set; }
26
27
            public OrderElement(string position, string hinge, string finish,
28
              string amount, string unit)
29
30
                Position = position;
31
                ElementInfo = new List<string>();
32
                Hinge = hinge;
33
                Finish = finish;
34
                Amount = amount;
35
                Unit = unit;
36
                StationStatus = new bool[5];
37
            }
38
39
            public void updateStatus(int stationNumber, bool status)
40
            {
41
                StationStatus[stationNumber - 4] = status;
42
            }
43
            public bool allDone()
44
45
            {
                return StationStatus[0] && StationStatus[1] && StationStatus[2] && >
46
                  StationStatus[3] && StationStatus[4];
47
            }
48
        }
49 }
50
```

```
1 using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Runtime.Serialization;
 5 using System.Web;
 6
 7 namespace WcfService.domain.order
 8 {
 9
       [DataContract]
10
       public class OrderStatus
11
            [DataMember]
12
13
            public string Station4 { get; set; }
14
            [DataMember]
            public string Station5 { get; set; }
15
16
            DataMember
17
            public string Station6 { get; set; }
18
            [DataMember]
19
            public string Station7 { get; set; }
20
            [DataMember]
21
            public string Station8 { get; set; }
22
            [DataMember]
23
           public bool Finished { get; set; }
24
25
           public OrderStatus()
26
                Station4 = "NotStartet";
27
                Station5 = "NotStartet";
28
                Station6 = "NotStartet";
29
30
                Station7 = "NotStartet";
                Station8 = "NotStartet";
31
32
                Finished = false;
33
            }
34
       }
35 }
```

```
using System;
 2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.IO;
 5 using System.Web.Hosting;
 6
 7 namespace WcfService.domain
 8
 9
        public class Properties
10
            private Dictionary<String, String> list;
11
12
            private FileInfo configFile;
            private static DirectoryInfo configFolder;
13
14
            public int Count
15
16
                get
17
                {
18
                    return list.Count;
19
                }
20
            }
21
22
            public Properties(String file)
23
24
                configFile = new FileInfo(Path.Combine(HostingEnvironment.MapPath →
                  ("~/config/"), file + ".ini"));
25
                // Sets the configFolder field if needed
26
                if (configFolder == null)
                    configFolder = configFile.Directory;
27
28
                // Creates the configFolder if needed
29
                if (!configFolder.Exists)
30
                    configFolder.Create();
31
                reload(file);
32
33
            }
34
            public String get(String field, String defValue)
35
36
37
                return (get(field) == null) ? (defValue) : (get(field));
38
            }
39
            public String get(String field)
40
41
            {
                return (list.ContainsKey(field)) ? (list[field]) : (null);
42
            }
43
44
            public void set(String field, Object value)
45
46
47
                if (!list.ContainsKey(field))
48
                    list.Add(field, value.ToString());
49
                else
                    list[field] = value.ToString();
50
            }
51
52
53
            public bool keyExists(string key)
54
55
                return list.Keys.Contains(key);
```

```
...en\SK-4Sem\C#\SKServer\WcfService1\Domain\Properties.cs
 56
 57
 58
             public void Save()
 59
 60
                 Save(this.configFile);
 61
             }
 62
 63
             public void Save(String filename)
 64
 65
                 Save(new FileInfo(configFolder.FullName + "/" + filename +
                   ".ini"));
             }
 66
 67
 68
             public void Save(FileInfo fileInfo)
 69
 70
                 if (!fileInfo.Exists)
 71
                     fileInfo.Create();
 72
 73
                 StreamWriter file = new StreamWriter(fileInfo.FullName);
 74
 75
                 foreach (String prop in list.Keys.ToArray())
 76
                     if (!String.IsNullOrWhiteSpace(list[prop]))
 77
 78
                         file.WriteLine(prop + "=" + list[prop]);
 79
                 }
 80
 81
                 file.Close();
             }
 82
 83
             public void reload()
 84
 85
 86
                 reload(this.configFile);
             }
 87
 88
 89
             public void reload(String filename)
 90
                 reload(new FileInfo(configFolder.FullName + "/" + filename +
 91
                   ".ini"));
 92
             }
 93
             public void reload(FileInfo fileInfo)
 94
 95
             {
 96
                 list = new Dictionary<String, String>();
 97
 98
                 if (fileInfo.Exists)
                     loadFromFile(fileInfo);
 99
100
                 else
101
                     fileInfo.Create();
102
             }
103
             private void loadFromFile(FileInfo fileInfo)
104
105
106
                 foreach (String line in File.ReadAllLines(fileInfo.FullName))
```

if ((!String.IsNullOrEmpty(line)) &&

(!line.StartsWith(";")) &&

107

108109

{

```
... \verb|en\SK-4Sem\C#\SKServer\WcfService1\Domain\Properties.cs|
```

```
110
                         (!line.StartsWith("#")) &&
                         (!line.StartsWith("'")) &&
111
112
                         (line.Contains('=')))
                     {
113
                         int index = line.IndexOf('=');
114
115
                         String key = line.Substring(0, index).Trim();
116
                         String value = line.Substring(index + 1).Trim();
117
                         if ((value.StartsWith("\"") && value.EndsWith("\"")) ||
118
                             (value.StartsWith("'") && value.EndsWith("'")))
119
120
                         {
                             value = value.Substring(1, value.Length - 2);
121
122
                         }
123
124
                         try
125
                         {
                             //ignore dublicates
126
127
                             list.Add(key, value);
128
129
                         catch { }
130
                     }
                }
131
             }
132
133
134
135
         }
136 }
```