```
1 /*-----
2 * Author: Dan Cassidy
                2015-06-23
3 * Date:
4 * Assignment: cView-P4
5 * Source File: Search.aspx.cs
6 * Language:
                C#
7 * Course:
                CSCI-C 490, C# Programming, MoWe 08:00
8 * Purpose:
                Code-behind file for Search.aspx. Controls the interface whereby a user can search
9 *
                the tables.
10 -----
11
12 using System;
13 using System.Collections.Generic;
14 using System.Data.Entity;
15 using System.Linq;
16 using System.Web;
17 using System.Web.UI;
18 using System.Web.UI.WebControls;
20 namespace cView_P4_DanCassidy
21 {
22
      public partial class Search : System.Web.UI.Page
23
          /*-----
24
          * Name: btnSearch_Click
25
          * Type: Event Handler Method
26
          * Purpose: Handles the actual search and display of the results.
27
          * Input: object sender, holds a reference to the object that raised this event.
28
29
          * Input: EventArgs e, holds data related to this event.
30
          * Output: Nothing.
                                   -----*/
31
32
         protected void btnSearch_Click(object sender, EventArgs e)
33
34
             // Hide things until needed.
35
             lblError.Visible = false;
36
             lblResult.Visible = false;
37
             mViewSearchResults.ActiveViewIndex = -1;
38
39
             // Pre-conversions to save some space.
40
             string toSearchFor = txtSearch.Text.Trim();
41
             byte toSearchForByte = SimpleConvert.ToByte(toSearchFor);
42
             DateTime toSearchForDateTime = SimpleConvert.ToDateTime(toSearchFor);
             decimal toSearchForDecimal = SimpleConvert.ToDecimal(toSearchFor);
43
44
45
             int resultCount = 0;
             int viewToDisplay = -1;
46
47
             GridView gViewToDisplay;
48
49
             int selectedIndex;
50
             object baseObject;
51
             // Determine what comparator to use; default is "|" for "contains".
52
             string comparator = "|";
53
54
             if (ddlComparatorsStrings.Visible == true)
55
             {
56
                 switch ((Global.Enums.ComparatorsStrings)ddlComparatorsStrings.SelectedIndex)
57
                    case Global.Enums.ComparatorsStrings.NotContain:
58
59
                        comparator = "!|";
60
                        break;
61
62
                    case Global.Enums.ComparatorsStrings.Equal:
63
                        comparator = "==";
64
                        break;
65
66
                    case Global.Enums.ComparatorsStrings.NotEqual:
```

```
comparator = "!=";
 67
 68
                             break:
 69
 70
                         default:
 71
                             break;
                     }
 72
 73
 74
                else if (ddlComparatorsNotStrings.Visible == true)
 75
 76
                     switch ((Global.Enums.ComparatorsNotStrings)ddlComparatorsNotStrings.SelectedIndex)
 77
 78
                         case Global.Enums.ComparatorsNotStrings.NotContain:
 79
                             comparator = "!|";
 80
                             break;
 81
                         case Global.Enums.ComparatorsNotStrings.Equal:
 82
 83
                             comparator = "==";
 84
                             break;
 85
                         case Global.Enums.ComparatorsNotStrings.NotEqual:
 86
 87
                             comparator = "!=";
 88
                             break;
 89
 90
                         case Global.Enums.ComparatorsNotStrings.Greater:
 91
                             comparator = ">";
 92
                             break;
 93
                         case Global.Enums.ComparatorsNotStrings.Less:
 94
 95
                             comparator = "<";</pre>
 96
                             break;
 97
 98
                         case Global.Enums.ComparatorsNotStrings.GreaterEqual:
 99
                             comparator = ">=";
100
                             break;
101
102
                         case Global.Enums.ComparatorsNotStrings.LessEqual:
                             comparator = "<=";</pre>
103
104
                             break;
105
106
                         default:
107
                             break:
108
109
                }
110
111
                // Do the search.
112
                //
113
                // The method I ended up using is a bit kludgy, but I had to resort to this because LINQ
114
                // to Entities is stupid and doesn't even try to evaluate what it can server-side prior
115
                // to attempting to translate the query to SQL and failing because indexers are not a
116
                // SQL thing.
117
                try
118
                {
119
                     using (CViewDataEntities database = new CViewDataEntities())
120
                     {
                         switch ((Global.Enums.ItemTypes)ddlItemType.SelectedIndex)
121
122
123
                             case Global.Enums.ItemTypes.Business:
124
                                 viewToDisplay = 0;
125
                                 gViewToDisplay = gViewBusinessResults;
                                 selectedIndex = ddlBusiness.SelectedIndex;
126
                                 baseObject = database.Businesses.First()[selectedIndex];
127
128
                                 if (baseObject != null)
129
                                 {
130
                                     IEnumerable<Business> searchResults = null;
131
                                     DbSet<Business> tableToSearch = database.Businesses;
132
                                     switch (comparator)
```

```
C:\Users\Dan\Box Sync\2014-2015 Summer\CSCI-C 490...-P4-DanCassidy\cView-P4-DanCassidy\Search.aspx.cs 3
133
                                         case "|":
134
135
                                             searchResults = tableToSearch.AsEnumerable().Where(i =>
136
                                                 i[selectedIndex].ToString().IndexOf(
137
                                                 toSearchFor, StringComparison.OrdinalIgnoreCase) >= 0);
138
                                             break:
139
140
                                         case "!|":
                                             searchResults = tableToSearch.AsEnumerable().Where(i =>
141
142
                                                 i[selectedIndex].ToString().IndexOf(
143
                                                 toSearchFor, StringComparison.OrdinalIgnoreCase) < 0);</pre>
144
                                             break;
145
146
                                         case "==":
147
                                             if (baseObject is byte)
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
148
149
                                                      (byte)i[selectedIndex] ==
150
                                                     toSearchForByte);
                                             else if (baseObject is DateTime)
151
152
                                                 searchResults = tableToSearch.AsEnumerable().Where(i =>
153
                                                     (DateTime)i[selectedIndex] ==
154
                                                     toSearchForDateTime);
155
                                             else if (baseObject is decimal)
156
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
157
                                                      (decimal)i[selectedIndex] ==
158
                                                     toSearchForDecimal);
159
                                             else
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
160
                                                      ((string)i[selectedIndex]).ToLower() == toSearchFor.
161
162
                                                     ToLower());
                                             break;
163
164
                                         case "!=":
165
                                             if (baseObject is byte)
166
167
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
168
                                                      (byte)i[selectedIndex] !=
169
                                                     toSearchForByte);
                                             else if (baseObject is DateTime)
170
171
                                                 searchResults = tableToSearch.AsEnumerable().Where(i =>
172
                                                     (DateTime)i[selectedIndex] !=
                                                     toSearchForDateTime);
173
174
                                             else if (baseObject is decimal)
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
175
176
                                                      (decimal)i[selectedIndex] !=
177
                                                     toSearchForDecimal);
178
                                             else
179
                                                 searchResults = tableToSearch.AsEnumerable().Where(i =>
180
                                                     ((string)i[selectedIndex]).ToLower() != toSearchFor.
181
                                                     ToLower());
                                             break;
182
183
184
                                         case ">":
185
                                             if (baseObject is byte)
186
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
187
                                                      (byte)i[selectedIndex] >
188
                                                     toSearchForByte);
189
                                             else if (baseObject is DateTime)
                                                 searchResults = tableToSearch.AsEnumerable().Where(i =>
190
191
                                                      (DateTime)i[selectedIndex] >
192
                                                     toSearchForDateTime);
                                             else if (baseObject is decimal)
193
194
                                                 searchResults = tableToSearch.AsEnumerable().Where(i =>
195
                                                      (decimal)i[selectedIndex] >
196
                                                     toSearchForDecimal);
                                             else
197
198
                                                 throw new InvalidOperationException(
```

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199
                                                                                                             "Comparator \">\" cannot be applied to strings.");
                                                                                           break;
200
201
                                                                                   case "<":
202
203
                                                                                           if (baseObject is byte)
                                                                                                    searchResults = tableToSearch.AsEnumerable().Where(i =>
204
                                                                                                             (byte)i[selectedIndex] <</pre>
205
206
                                                                                                            toSearchForByte);
                                                                                           else if (baseObject is DateTime)
207
208
                                                                                                    searchResults = tableToSearch.AsEnumerable().Where(i =>
209
                                                                                                            (DateTime)i[selectedIndex] <</pre>
210
                                                                                                            toSearchForDateTime);
                                                                                           else if (baseObject is decimal)
211
212
                                                                                                    searchResults = tableToSearch.AsEnumerable().Where(i =>
213
                                                                                                             (decimal)i[selectedIndex] <</pre>
214
                                                                                                            toSearchForDecimal);
215
                                                                                           else
216
                                                                                                    throw new InvalidOperationException(
                                                                                                             "Comparator \"<\" cannot be applied to strings.");
217
218
                                                                                           break;
219
                                                                                   case ">=":
220
221
                                                                                           if (baseObject is byte)
222
                                                                                                    searchResults = tableToSearch.AsEnumerable().Where(i =>
223
                                                                                                             (byte)i[selectedIndex] >=
224
                                                                                                            toSearchForByte);
                                                                                           else if (baseObject is DateTime)
225
                                                                                                    searchResults = tableToSearch.AsEnumerable().Where(i =>
226
227
                                                                                                             (DateTime)i[selectedIndex] >=
228
                                                                                                            toSearchForDateTime);
                                                                                           else if (baseObject is decimal)
229
230
                                                                                                    searchResults = tableToSearch.AsEnumerable().Where(i =>
231
                                                                                                             (decimal)i[selectedIndex] >=
232
                                                                                                            toSearchForDecimal);
233
                                                                                           else
234
                                                                                                    throw new InvalidOperationException(
235
                                                                                                             "Comparator \">=\" cannot be applied to strings.");
236
                                                                                           break;
237
                                                                                   case "<=":
238
239
                                                                                           if (baseObject is byte)
240
                                                                                                    searchResults = tableToSearch.AsEnumerable().Where(i =>
                                                                                                            (byte)i[selectedIndex] <=</pre>
241
242
                                                                                                            toSearchForByte);
                                                                                           else if (baseObject is DateTime)
243
244
                                                                                                    searchResults = tableToSearch.AsEnumerable().Where(i =>
245
                                                                                                            (DateTime)i[selectedIndex] <=
246
                                                                                                            toSearchForDateTime);
247
                                                                                           else if (baseObject is decimal)
                                                                                                    searchResults = tableToSearch.AsEnumerable().Where(i =>
248
249
                                                                                                             (decimal)i[selectedIndex] <=</pre>
250
                                                                                                            toSearchForDecimal);
251
252
                                                                                                    throw new InvalidOperationException(
                                                                                                             "Comparator \"<=\" cannot be applied to strings.");
253
                                                                                           break;
254
255
                                                                                   default:
256
```

resultCount = searchResults.Count();

break;

case Global.Enums.ItemTypes.Park:

gViewToDisplay.DataSource = searchResults.ToList();

throw new InvalidOperationException("Invalid comparator.");

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263

264

```
265
                                 viewToDisplay = 1;
                                 gViewToDisplay = gViewParkResults;
266
267
                                 selectedIndex = ddlPark.SelectedIndex;
268
                                 baseObject = database.Parks.First()[selectedIndex];
269
                                 if (baseObject != null)
270
271
                                     IEnumerable<Park> searchResults = null;
272
                                     DbSet<Park> tableToSearch = database.Parks;
273
                                     switch (comparator)
274
                                     {
                                         case "|":
275
276
                                             searchResults = tableToSearch.AsEnumerable().Where(i =>
277
                                                  i[selectedIndex].ToString().IndexOf(
278
                                                  toSearchFor, StringComparison.OrdinalIgnoreCase) >= 0);
279
                                             break;
280
281
                                         case "!|":
282
                                             searchResults = tableToSearch.AsEnumerable().Where(i =>
                                                  i[selectedIndex].ToString().IndexOf(
283
284
                                                  toSearchFor, StringComparison.OrdinalIgnoreCase) < 0);</pre>
285
                                             break;
286
287
                                         case "==":
288
                                             if (baseObject is byte)
289
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
290
                                                      (byte)i[selectedIndex] ==
291
                                                      toSearchForByte);
                                             else if (baseObject is DateTime)
292
293
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
294
                                                      (DateTime)i[selectedIndex] ==
295
                                                      toSearchForDateTime);
296
                                             else if (baseObject is decimal)
297
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
298
                                                      (decimal)i[selectedIndex] ==
299
                                                      toSearchForDecimal);
300
                                             else
301
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
                                                      ((string)i[selectedIndex]).ToLower() == toSearchFor.
302
303
                                                      ToLower());
304
                                             break;
305
                                         case "!=":
306
                                             if (baseObject is byte)
307
308
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
309
                                                      (byte)i[selectedIndex] !=
310
                                                      toSearchForByte);
                                             else if (baseObject is DateTime)
311
312
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
313
                                                      (DateTime)i[selectedIndex] !=
314
                                                      toSearchForDateTime);
315
                                             else if (baseObject is decimal)
316
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
317
                                                      (decimal)i[selectedIndex] !=
318
                                                      toSearchForDecimal);
319
                                             else
320
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
321
                                                      ((string)i[selectedIndex]).ToLower() != toSearchFor.
322
                                                      ToLower());
323
                                             break;
324
                                         case ">":
325
326
                                             if (baseObject is byte)
327
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
328
                                                      (byte)i[selectedIndex] >
329
                                                      toSearchForByte);
                                             else if (baseObject is DateTime)
330
```

```
searchResults = tableToSearch.AsEnumerable().Where(i =>
331
332
                                                      (DateTime)i[selectedIndex] >
333
                                                      toSearchForDateTime);
334
                                              else if (baseObject is decimal)
335
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
                                                      (decimal)i[selectedIndex] >
336
337
                                                      toSearchForDecimal);
338
                                              else
                                                  throw new InvalidOperationException(
339
340
                                                       "Comparator \">\" cannot be applied to strings.");
341
                                              break:
342
                                         case "<":
343
344
                                              if (baseObject is byte)
345
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
346
                                                      (byte)i[selectedIndex] <</pre>
347
                                                      toSearchForByte);
348
                                              else if (baseObject is DateTime)
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
349
350
                                                      (DateTime)i[selectedIndex] <
351
                                                      toSearchForDateTime);
                                              else if (baseObject is decimal)
352
353
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
354
                                                      (decimal)i[selectedIndex] <</pre>
355
                                                      toSearchForDecimal);
356
                                              else
357
                                                  throw new InvalidOperationException(
                                                      "Comparator \"<\" cannot be applied to strings.");
358
359
                                              break;
360
                                          case ">=":
361
362
                                              if (baseObject is byte)
363
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
364
                                                      (byte)i[selectedIndex] >=
365
                                                      toSearchForByte);
                                              else if (baseObject is DateTime)
366
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
367
368
                                                      (DateTime)i[selectedIndex] >=
369
                                                      toSearchForDateTime);
                                              else if (baseObject is decimal)
370
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
371
372
                                                      (decimal)i[selectedIndex] >=
373
                                                      toSearchForDecimal);
374
                                              else
375
                                                  throw new InvalidOperationException(
376
                                                       "Comparator \">=\" cannot be applied to strings.");
377
                                              break:
378
                                          case "<=":
379
                                              if (baseObject is byte)
380
381
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
382
                                                      (byte)i[selectedIndex] <=</pre>
383
                                                      toSearchForByte);
384
                                              else if (baseObject is DateTime)
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
385
386
                                                      (DateTime)i[selectedIndex] <=</pre>
387
                                                      toSearchForDateTime);
                                              else if (baseObject is decimal)
388
389
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
                                                      (decimal)i[selectedIndex] <=</pre>
390
391
                                                      toSearchForDecimal);
392
                                              else
393
                                                  throw new InvalidOperationException(
                                                      "Comparator \"<=\" cannot be applied to strings.");
394
395
                                              break;
396
```

```
397
                                         default:
398
                                             throw new InvalidOperationException("Invalid comparator.");
399
                                     }
400
                                     resultCount = searchResults.Count();
401
                                     gViewToDisplay.DataSource = searchResults.ToList();
                                 }
402
403
                                 break;
404
405
                             case Global. Enums. ItemTypes. PublicFacility:
406
                                 viewToDisplay = 2;
                                 gViewToDisplay = gViewPublicFacilityResults;
407
408
                                 selectedIndex = ddlPublicFacility.SelectedIndex;
409
                                 baseObject = database.PublicFacilities.First()[selectedIndex];
                                 if (baseObject != null)
410
411
                                 {
                                     IEnumerable<PublicFacility> searchResults = null;
412
413
                                     DbSet<PublicFacility> tableToSearch = database.PublicFacilities;
414
                                     switch (comparator)
415
                                     {
                                         case "|":
416
417
                                             searchResults = tableToSearch.AsEnumerable().Where(i =>
                                                 i[selectedIndex].ToString().IndexOf(
418
419
                                                 toSearchFor, StringComparison.OrdinalIgnoreCase) >= 0);
420
421
                                         case "!|":
422
423
                                             searchResults = tableToSearch.AsEnumerable().Where(i =>
424
                                                 i[selectedIndex].ToString().IndexOf(
425
                                                 toSearchFor, StringComparison.OrdinalIgnoreCase) < 0);</pre>
426
                                             break;
427
428
                                         case "==":
429
                                             if (baseObject is byte)
430
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
431
                                                      (byte)i[selectedIndex] ==
432
                                                      toSearchForByte);
                                             else if (baseObject is DateTime)
433
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
434
435
                                                      (DateTime)i[selectedIndex] ==
436
                                                      toSearchForDateTime);
                                             else if (baseObject is decimal)
437
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
438
439
                                                      (decimal)i[selectedIndex] ==
440
                                                      toSearchForDecimal);
441
                                             else
442
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
443
                                                      ((string)i[selectedIndex]).ToLower() == toSearchFor.
444
                                                      ToLower());
445
                                             break;
446
                                         case "!=":
447
448
                                             if (baseObject is byte)
449
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
450
                                                      (byte)i[selectedIndex] !=
451
                                                      toSearchForByte);
                                             else if (baseObject is DateTime)
452
453
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
454
                                                      (DateTime)i[selectedIndex] !=
455
                                                      toSearchForDateTime);
                                             else if (baseObject is decimal)
456
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
457
458
                                                      (decimal)i[selectedIndex] !=
459
                                                      toSearchForDecimal);
460
                                             else
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
461
462
                                                      ((string)i[selectedIndex]).ToLower() != toSearchFor.
```

```
463
                                                      ToLower());
464
                                              break;
465
                                          case ">":
466
467
                                              if (baseObject is byte)
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
468
                                                      (byte)i[selectedIndex] >
469
470
                                                      toSearchForByte);
                                              else if (baseObject is DateTime)
471
472
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
473
                                                      (DateTime)i[selectedIndex] >
474
                                                      toSearchForDateTime);
                                              else if (baseObject is decimal)
475
476
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
477
                                                      (decimal)i[selectedIndex] >
478
                                                      toSearchForDecimal);
479
                                              else
480
                                                  throw new InvalidOperationException(
                                                      "Comparator \">\" cannot be applied to strings.");
481
482
                                              break;
483
                                          case "<":
484
485
                                              if (baseObject is byte)
486
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
487
                                                      (byte)i[selectedIndex] <</pre>
488
                                                      toSearchForByte);
                                              else if (baseObject is DateTime)
489
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
490
491
                                                      (DateTime)i[selectedIndex] <</pre>
492
                                                      toSearchForDateTime);
493
                                              else if (baseObject is decimal)
494
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
495
                                                      (decimal)i[selectedIndex] <</pre>
496
                                                      toSearchForDecimal);
497
                                              else
498
                                                  throw new InvalidOperationException(
                                                       "Comparator \"<\" cannot be applied to strings.");
499
500
                                              break;
501
                                          case ">=":
502
                                              if (baseObject is byte)
503
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
504
                                                      (byte)i[selectedIndex] >=
505
506
                                                      toSearchForByte);
                                              else if (baseObject is DateTime)
507
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
508
509
                                                      (DateTime)i[selectedIndex] >=
510
                                                      toSearchForDateTime);
511
                                              else if (baseObject is decimal)
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
512
513
                                                      (decimal)i[selectedIndex] >=
514
                                                      toSearchForDecimal);
515
516
                                                  throw new InvalidOperationException(
                                                       "Comparator \">=\" cannot be applied to strings.");
517
518
                                              break;
519
                                          case "<=":
520
521
                                              if (baseObject is byte)
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
522
                                                      (byte)i[selectedIndex] <=</pre>
523
524
                                                      toSearchForByte);
525
                                              else if (baseObject is DateTime)
                                                  searchResults = tableToSearch.AsEnumerable().Where(i =>
526
                                                      (DateTime)i[selectedIndex] <=
527
528
                                                      toSearchForDateTime);
```

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534
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571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
                 mViewSearchResults.ActiveViewIndex = -1;
588
589
590
                 // Display the needed control.
591
                 switch ((Global.Enums.BusinessFields)ddlBusiness.SelectedIndex)
592
                     case Global. Enums. Business Fields. Name:
593
                     case Global.Enums.BusinessFields.Type:
594
```

```
595
                   case Global. Enums. Business Fields. Street Address:
596
                   case Global.Enums.BusinessFields.City:
597
                   case Global. Enums. Business Fields. State:
598
                   case Global. Enums. Business Fields. Zip:
599
                   case Global. Enums. Business Fields. Phone:
600
                   case Global.Enums.BusinessFields.LicenseNumber:
                   case Global.Enums.BusinessFields.LicenseStatus:
601
                   case Global. Enums. Business Fields. Council District:
602
603
                       ddlComparatorsStrings.Visible = true;
604
605
606
                   case Global.Enums.BusinessFields.Latitude:
607
                   case Global. Enums. Business Fields. Longitude:
                   case Global.Enums.BusinessFields.LicenseIssueDate:
608
609
                   case Global.Enums.BusinessFields.LicenseExpirDate:
610
                       ddlComparatorsNotStrings.Visible = true;
611
                       break:
612
                   default:
613
614
                       ddlComparatorsStrings.Visible = false;
615
                       ddlComparatorsNotStrings.Visible = false;
616
617
               }
618
           }
619
           /*-----
620
            * Name:
621
                      {\tt ddlComparatorsNotStrings\_SelectedIndexChanged}
            * Type:
622
                      Event Handler Method
            * Purpose: Handles the change of visibility on controls when the user chooses what type of
623
624
                       comparison to make.
            * Input:
                      object sender, holds a reference to the object that raised this event.
625
            * Input:
                      EventArgs e, holds data related to this event.
626
627
            * Output: Nothing.
           */----*/
628
629
           protected void ddlComparatorsNotStrings_SelectedIndexChanged(object sender, EventArgs e)
630
           {
               // Hide things until needed.
631
               lblError.Visible = false;
632
633
               lblResult.Visible = false;
634
               txtSearch.Visible = false;
635
636
               txtSearch.Text = "";
637
               btnSearch.Visible = false;
638
639
               mViewSearchResults.ActiveViewIndex = -1;
640
               // Display the needed control.
641
642
               switch ((Global.Enums.ComparatorsNotStrings)ddlComparatorsNotStrings.SelectedIndex)
643
                   case Global.Enums.ComparatorsNotStrings.Contain:
644
645
                   case Global.Enums.ComparatorsNotStrings.NotContain:
646
                   case Global.Enums.ComparatorsNotStrings.Equal:
647
                   case Global.Enums.ComparatorsNotStrings.NotEqual:
648
                   case Global.Enums.ComparatorsNotStrings.Greater:
649
                   case Global.Enums.ComparatorsNotStrings.Less:
                   case Global.Enums.ComparatorsNotStrings.GreaterEqual:
650
                   case Global.Enums.ComparatorsNotStrings.LessEqual:
651
652
                       txtSearch.Visible = true;
                       btnSearch.Visible = true;
653
654
                       break;
655
656
                   default:
657
                       break;
658
               }
           }
659
660
```

```
/*-----
661
           * Name:
                     {\tt ddlComparatorsStrings\_SelectedIndexChanged}
662
           * Type:
663
                     Event Handler Method
           * Purpose: Handles the change of visibility on controls when the user chooses what type of
664
665
                     comparison to make.
           * Input:
                     object sender, holds a reference to the object that raised this event.
666
           * Input:
667
                     EventArgs e, holds data related to this event.
           * Output: Nothing.
668
                             -----*/
669
670
          protected void ddlComparatorsStrings_SelectedIndexChanged(object sender, EventArgs e)
671
672
              // Hide things until needed.
673
              lblError.Visible = false;
674
              lblResult.Visible = false;
675
676
              txtSearch.Visible = false;
677
              txtSearch.Text = "";
678
              btnSearch.Visible = false;
679
680
              mViewSearchResults.ActiveViewIndex = -1;
681
              // Display the needed control.
682
683
              switch ((Global.Enums.ComparatorsStrings)ddlComparatorsStrings.SelectedIndex)
684
              {
685
                  case Global.Enums.ComparatorsStrings.Contain:
                  case Global.Enums.ComparatorsStrings.NotContain:
686
687
                  case Global.Enums.ComparatorsStrings.Equal:
688
                  case Global.Enums.ComparatorsStrings.NotEqual:
689
                     txtSearch.Visible = true;
690
                     btnSearch.Visible = true;
691
                     break;
692
693
                  default:
694
                     break;
695
              }
696
          }
697
          /*-----
698
699
           * Name: ddlItemType_SelectedIndexChanged
700
                     Event Handler Method
           * Purpose: Handles showing and hiding the various controls to allow a user to search the
701
702
                     database.
           * Input:
703
                     object sender, holds a reference to the object that raised this event.
704
                     EventArgs e, holds data related to this event.
           * Input:
           * Output: Nothing.
705
          */----*/
706
          protected void ddlItemType_SelectedIndexChanged(object sender, EventArgs e)
797
708
          {
709
              // Hide things until needed.
710
              lblError.Visible = false;
711
              lblResult.Visible = false;
712
              ddlBusiness.Visible = false;
713
714
              ddlBusiness.SelectedIndex = 0;
715
              ddlPark.Visible = false;
716
              ddlPark.SelectedIndex = 0;
717
              ddlPublicFacility.Visible = false;
718
              ddlPublicFacility.SelectedIndex = 0;
719
              ddlComparatorsStrings.Visible = false;
720
              ddlComparatorsStrings.SelectedIndex = 0;
              ddlComparatorsNotStrings.Visible = false;
721
722
              ddlComparatorsNotStrings.SelectedIndex = 0;
723
724
              txtSearch.Visible = false;
              txtSearch.Text = "";
725
              btnSearch.Visible = false;
726
```

```
727
               mViewSearchResults.ActiveViewIndex = -1;
728
729
               // Display the needed control.
730
731
               switch ((Global.Enums.ItemTypes)ddlItemType.SelectedIndex)
732
733
                   case Global.Enums.ItemTypes.Business:
734
                       ddlBusiness.Visible = true;
735
                       break;
736
                   case Global.Enums.ItemTypes.Park:
737
738
                       ddlPark.Visible = true;
739
                       break;
740
741
                   case Global.Enums.ItemTypes.PublicFacility:
742
                       ddlPublicFacility.Visible = true;
743
                       break;
744
745
                   default:
746
                       break;
747
               }
748
           }
749
750
            /*-----
            * Name:
751
                       ddlPark_SelectedIndexChanged
            * Type:
752
                       Event Handler Method
            * Purpose: Handles the change of visibility on controls when the user chooses a park field.
753
754
                       object sender, holds a reference to the object that raised this event.
755
                       EventArgs e, holds data related to this event.
756
            * Output: Nothing.
757
758
           protected void ddlPark_SelectedIndexChanged(object sender, EventArgs e)
759
760
                // Hide things until needed.
761
               lblError.Visible = false;
762
               lblResult.Visible = false;
763
               ddlComparatorsStrings.Visible = false;
764
765
               ddlComparatorsStrings.SelectedIndex = 0;
766
               ddlComparatorsNotStrings.Visible = false;
               ddlComparatorsNotStrings.SelectedIndex = 0;
767
768
769
               txtSearch.Visible = false;
               txtSearch.Text = "";
770
771
               btnSearch.Visible = false;
772
773
               mViewSearchResults.ActiveViewIndex = -1;
774
775
               // Display the needed control.
               switch ((Global.Enums.ParkFields)ddlPark.SelectedIndex)
776
777
778
                   case Global. Enums. ParkFields. Name:
779
                   case Global.Enums.ParkFields.Type:
780
                   case Global.Enums.ParkFields.StreetAddress:
781
                   case Global.Enums.ParkFields.City:
782
                   case Global.Enums.ParkFields.State:
783
                   case Global.Enums.ParkFields.Zip:
784
                   case Global.Enums.ParkFields.Phone:
785
                       ddlComparatorsStrings.Visible = true;
786
                       break;
787
                   case Global.Enums.ParkFields.Latitude:
788
789
                   case Global.Enums.ParkFields.Longitude:
790
                   case Global. Enums. ParkFields. FeatureBaseball:
                   case Global. Enums. ParkFields. FeatureBasketball:
791
792
                   case Global. Enums. ParkFields. FeatureGolf:
```

```
793
                   case Global.Enums.ParkFields.FeatureLargeMPField:
                   case Global.Enums.ParkFields.FeatureTennis:
794
795
                   case Global. Enums. ParkFields. FeatureVolleyball:
                       ddlComparatorsNotStrings.Visible = true;
796
797
798
                   default:
799
800
                      break:
801
               }
802
           }
803
           /*-----
804
            * Name:
805
                      ddlPublicFacility_SelectedIndexChanged
            * Type:
806
                      Event Handler Method
807
            * Purpose: Handles the change of visibility on controls when the user chooses a public
808
                      facility field.
            * Input:
                      object sender, holds a reference to the object that raised this event.
809
            * Input:
                      EventArgs e, holds data related to this event.
810
            * Output: Nothing.
811
                                 -----*/
812
813
           protected void ddlPublicFacility_SelectedIndexChanged(object sender, EventArgs e)
814
815
               // Hide things until needed.
816
               lblError.Visible = false;
817
               lblResult.Visible = false;
818
819
               ddlComparatorsStrings.Visible = false;
820
               ddlComparatorsStrings.SelectedIndex = 0;
               ddlComparatorsNotStrings.Visible = false;
821
822
               ddlComparatorsNotStrings.SelectedIndex = 0;
823
824
               txtSearch.Visible = false;
825
               txtSearch.Text = "";
826
               btnSearch.Visible = false;
827
               mViewSearchResults.ActiveViewIndex = -1;
828
829
830
               // Display the needed control.
831
               switch ((Global.Enums.PublicFacilityFields)ddlPublicFacility.SelectedIndex)
832
               {
833
                   case Global.Enums.PublicFacilityFields.Name:
834
                   case Global.Enums.PublicFacilityFields.Type:
835
                   case Global.Enums.PublicFacilityFields.StreetAddress:
836
                   case Global.Enums.PublicFacilityFields.City:
837
                   case Global.Enums.PublicFacilityFields.State:
838
                   case Global.Enums.PublicFacilityFields.Zip:
                   case Global. Enums. Public Facility Fields. Phone:
839
840
                       ddlComparatorsStrings.Visible = true;
841
842
843
                   case Global.Enums.PublicFacilityFields.Latitude:
844
                   case Global.Enums.PublicFacilityFields.Longitude:
845
                       ddlComparatorsNotStrings.Visible = true;
846
                      break;
847
                   default:
848
849
                      break;
850
               }
851
           }
       }
852
853 }
```