```
1
      package other;
 2
      import java.io.File;
      import java.io.FileNotFoundException;
 3
 4
      import java.io.FileOutputStream;
 5
      import java.io.FileWriter;
 6
      import java.io.IOException;
 7
      import java.io.OutputStream;
 8
      import java.io.OutputStreamWriter;
 9
      import java.io. Writer;
10
      import java.util.ArrayList;
      import java.util.HashMap;
11
12
      import java.util.Iterator;
13
      import java.util.Map;
      import java.util.Map.Entry;
14
15
      import java.util.Set;
      import org.dom4j.Attribute;
16
17
      import org.dom4j.Document;
18
      import org.dom4j.Element;
19
      import org.dom4j.io.OutputFormat;
20
      import org.dom4j.io.SAXReader;
21
      import org.dom4j.io.XMLWriter;
22
      import com.test.bpelbean.Message;
23
      import com.test.bpelbean.Value;
24
      import com.test.bean.Activity;
25
      import com.test.bean.Atom;
26
      import com.test.bean.Structure;
27
      public class ParseBpel {
28
           public static Structure activity=new Structure("begin");
29
           public static ArrayList<String> If=new ArrayList<String>();
           public static HashMap<String,String> If =new HashMap<String,String>();
30
31
           public static HashMap<String,String> If Branch=new HashMap<String,String>();
           public static ArrayList<String> collection=new ArrayList<String>();
32
33
           public static void main(String[] args) throws FileNotFoundException, IOException{
                String filename="D:\\Workspace1\\DebugTest\\bpel\\TravelAgency.bpel";
34
35
                File file = new File(filename);
36
                Document document = openXMLFile(file.getAbsolutePath());
37
                Element root = document.getRootElement();
38
                for (Iterator iter = root.elementIterator(); iter.hasNext();){
39
                     Element element = (Element) iter.next();
40
                     String attr=element.attributeValue("name");
41
                     System.out.println(attr);
42
                     for(Iterator iter1 = element.elementIterator(); iter1.hasNext();){
43
                          Element element1 = (Element) iter1.next();
44
                          String attr1=element1.attributeValue("name");
45
                          System.out.println("
                                                  "+attr1);
46
47
                 System.out.println(attr1);
48
49
           public static Document openXMLFile(String filePath) {
50
```

```
51
                  Document document = null;
                  SAXReader reader = new SAXReader();
 52
 53
 54
                       File file = new File(filePath);
 55
                       document = reader.read(file);
                  } catch (Exception e) {
 56
                       e.printStackTrace();
 57
 58
 59
                  return document;
 60
             public static boolean readwsdlfile(String filepath) throws FileNotFoundException,
 61
             IOException {
 62
 63
                  try {
                       File file = new File(filepath);
 64
 65
                       if (!file.isDirectory()) {
                            System.out.println("absolutepath=" + file.getAbsolutePath());
 66
                            System.out.println("name=" + file.getName());
 67
 68
                            String absolutepath = file.getAbsolutePath();
                            Document document = openXMLFile(absolutepath);
 69
                            parseWsdl(document);
 70
 71
                       } else if (file.isDirectory()) {
 72
                           String[] filelist = file.list();
 73
                            for (int i = 0; i < filelist.length; i++) {
                                 File readfile = new File(filepath + "\\" + filelist[i]);
 74
 75
                                 if (!readfile.isDirectory()) {
 76
                                      if (filelist[i].contains(".wsdl")) {
                                           String absolutepath = readfile.getAbsolutePath();
 77
 78
                                           Document document = openXMLFile(absolutepath);
 79
                                           parseWsdl(document);
 80
 81
                                 } else if (readfile.isDirectory()) {
                                      readwsdlfile(filepath + "\\" + filelist[i]);
 82
 83
                                 }
 84
                            }
 85
                       }
                  } catch (FileNotFoundException e) {
 86
 87
                       System.out.println("readfile()
                                                        Exception:" + e.getMessage());
 88
                  if if();
 89
 90
                  return true;
 91
 92
             public static void parseWsdl(Document document) {
 93
                  Element root = document.getRootElement();
 94
                  for (Iterator iter = root.elementIterator(); iter.hasNext();){
 95
                       Element = (Element) iter.next();
 96
                       String attr=element.attributeValue("name");
 97
                       if((attr!=null)&&attr.equals("main")){
                            parseMain(element,activity);
 98
 99
                       }
100
                  }
```

```
101
                  for(Activity component: activity.components){
                       if(component.getClass().getName().equals("com.test.bean.Structure")){
102
                            If_.put(component.getChild(),component.getName());
103
104
                       }
105
                  }
106
             }
             public static void parseMain(Element node,Activity act){
107
108
                  for (Iterator iter = node.elementIterator(); iter.hasNext();){
                       Element element = (Element) iter.next();
109
110
                       String type=element.getName();
111
                       switch(type){
                       case "assign":
112
113
                       case "invoke":
                       case "receive":
114
                       case "reply":
115
116
                            parseYuan(element,act);
117
                           break;
                       case "flow":
118
119
                            parseFlow(element,act);
120
                            break;
121
                       case "sequence":
122
                           parseSeq(element,act);
                            break;
123
                       case "if":
124
125
                            parseIf(element,act);
126
                           break;
127
                  }
128
129
             private static void parseSeq(Element node,Activity act){
130
                  Structure seq=new Structure(node.getName());
131
                  for (Iterator iter = node.elementIterator(); iter.hasNext();){
                       Element element = (Element) iter.next();
132
133
                       parseMain(element,act);
134
                  }
135
             }
136
             private static void parseFlow(Element node,Activity act){
137
                  String attr=node.attributeValue("name");
138
                  System.out.println("
                                          flow"+attr);
                  if(attr!=null)
139
140
                       collection.add(attr);
141
                  for (Iterator iter = node.elementIterator(); iter.hasNext();){
142
                       Element element = (Element) iter.next();
                       parseMain(element,act);
143
144
                  }
145
             }
146
             private static void parseYuan(Element node,Activity act) {
147
                  String attr=node.attributeValue("name");
148
                  String key=act.getName();
                  if(If_Branch.containsKey(act.getName())){
149
                       String value=If_Branch.get(key);
150
```

```
151
                       If_Branch.put(act.getName(), value+attr+"#");
152
                  }
153
                  act.add(new Atom(attr));
154
                  if(attr!=null)
155
                       collection.add(attr);
             }
156
157
             private static void parseElse(Element node,Activity act){
                  for (Iterator iter = node.elementIterator(); iter.hasNext();){
158
                       Element element = (Element) iter.next();
159
160
                       parseMain(element,act);
161
                  }
162
             }
163
             private static void parseIf(Element node,Activity act) {
164
                  String attr=node.attributeValue("name");
                  String key=act.getName();
165
                  Structure _if=new Structure(attr);
166
167
                  activity.add(_if);
                  if(If_Branch.containsKey(act.getName())){
168
169
                       String value=If_Branch.get(key);
                       If_Branch.put(act.getName(), value+attr+"#");
170
171
172
                 If Branch.put(attr, "");
                  If.add(attr);
173
174
                  collection.add(attr);
                 for (Iterator iter = node.elementIterator(); iter.hasNext();){
175
                       Element element = (Element) iter.next();
176
177
                       String type=element.getName();
178
                       if(type.equals("condition"))
179
                            continue;
180
                       if(type.equals("else"))
181
                            parseElse(element,_if);
                       parseMain(element,_if);
182
183
                  }
184
185
             public static void if_if(){
186
                  int n=ParseBpel.If_Branch.size();
187
                  String[] key=new String[n];
188
                  String[] value=new String[n];
189
                  int i=0;
190
                  for(Entry<String, String> entry: ParseBpel.If_Branch.entrySet()){
                       key[i]=entry.getKey();
191
192
                       value[i++]=entry.getValue();
193
194
                  for(i=0;i< n;i++){}
195
                       for(int j=0;j< n;j++){}
                            if(i==j)
196
197
                                 continue;
198
                            if(value[i].contains(key[j])){
                                 ParseBpel.If_Branch.put(key[i],
199
200
             ParseBpel.If_Branch.get(key[i])+value[j]);
```

```
201
                           }
202
                      }
203
                 }
204
            }
205
       package other;
206
207
       import java.io.File;
208
       import com.test.XMLHelper_Ran;
       public class Name {
209
210
            public static void main(String args[]) throws Exception{
                 String output="E:\\毕设实验\\Quote\\path.txt";
211
212
                 File file = new File("C:\\Users\\Administrator\\Desktop\\实验\\quotemutant\\");
213
                 File[] files = file.listFiles();
                 for(int i = 0; i < files.length; i++){
214
                      System.out.println(files[i].getName());
215
216
                      XMLHelper_Ran.stringexport(files[i].getName()+"\n",output);
217
                 }
218
            }
219
       }
220
       package other;
221
       import java.io.BufferedReader;
222
       import java.io.File;
223
       import java.io.FileInputStream;
224
       import java.io.InputStreamReader;
225
       import java.util.regex.Pattern;
226
       import com.test.XMLHelper_Ran;
227
       public class Quote_Add {
228
            public static void main(String[] args) throws Exception{
229
                 System.out.println("begin:");
                 String output="E:\\毕设实验\\Quote\\path new444.txt";
230
231
                 String path1="E:\\毕设实验\\Quote\\path Add.txt";
                 String path2="E:\\毕设实验\\Quote\\path_new4.txt";
232
233
                 File file1=new File(path1);
                 InputStreamReader isr1=new InputStreamReader(new FileInputStream(file1));
234
235
                 BufferedReader br1=new BufferedReader(isr1);
236
                 File file2=new File(path2);
237
                 InputStreamReader isr2=new InputStreamReader(new FileInputStream(file2));
238
                 BufferedReader br2=new BufferedReader(isr2);
239
                 String line1;
240
                 while((line1=br1.readLine())!=null){
241
                      boolean b=Pattern.matches(".*bpel", line1);
242
                      if(b){
243
                           System.out.println(line1);
                           XMLHelper_Ran.stringexport(line1+"\n",output);
244
245
                           String line2;
246
                           while((line2=br2.readLine())!=null){
247
                               if(line2.equals(line1)){
248
                                    System.out.println("
                                                            haha"+line2);
249
                               }else{
250
                                    boolean b2=Pattern.matches(".*bpel", line2);
```

```
if(b2){
251
252
                                         break;
253
                                    }else{
254
                                         System.out.println(line2);
255
                                         XMLHelper_Ran.stringexport(line2+"\n",output);
                                    }
256
                               }
257
258
                           }
                      }
259
260
                      else{
                           System.out.println(line1);
261
262
                          XMLHelper_Ran.stringexport(line1+"\n",output);
263
                      }
264
                 }
265
            }
266
267
       package other;
268
       import java.io.BufferedReader;
269
       import java.io.File;
270
       import java.io.FileInputStream;
271
       import java.io.InputStreamReader;
272
       import java.util.ArrayList;
273
       import java.util.regex.Pattern;
274
       import com.test.XMLHelper_Ran;
275
       public class Quote_PathAdd2 {
276
            public static void main(String[] args) throws Exception{
277
                 System.out.println("begin:");
278
                 String output="E:\\毕设实验\\Quote\\path_Add3.txt";
279
                 String path1="E:\\毕设实验\\Quote\\path.txt";
                 String path2="E:\\毕设实验\\Quote\\path Quote Mutant3.txt";
280
281
                 int[] array={1,5,4,7,11};
282
                 ArrayList list=new ArrayList();
283
                 for(int num: array)
284
                      list.add(num);
285
                 File file1=new File(path1);
286
                 InputStreamReader isr1=new InputStreamReader(new FileInputStream(file1));
287
                 BufferedReader br1=new BufferedReader(isr1);
288
                 File file2=new File(path2);
                 InputStreamReader isr2=new InputStreamReader(new FileInputStream(file2));
289
290
                 BufferedReader br2=new BufferedReader(isr2);
291
                 String line1;
292
                 while((line1=br1.readLine())!=null){
293
                      boolean b=Pattern.matches(".*bpel", line1);
294
                      if(b)
295
                           System.out.println(line1);
296
                           XMLHelper Ran.stringexport(line1+"\n",output);
297
                           String line2;
                           int count=0;
298
                           while((line2=br2.readLine())!=null){
299
                               if(line2.equals(line1)){
300
```

```
301
                                    count=0;
302
                                }else{
303
                                     boolean b2=Pattern.matches(".*bpel", line2);
304
                                    if(b2){
305
                                         count=0;
                                         break;
306
307
                                     }else{
308
                                         count++;
                                         if(list.contains(count)){
309
310
                                              System.out.println("add "+line2);
                                              XMLHelper_Ran.stringexport(line2+"\n",output);
311
312
                                         }
313
                                     }
                                }
314
315
                           }
316
                      }
317
                      else{
                           System.out.println("1"+line1);
318
319
                           XMLHelper_Ran.stringexport(line1+"\n",output);
320
                      }
321
                 }
322
            }
323
324
       package other;
325
       import java.io.BufferedReader;
326
       import java.io.File;
327
       import java.io.FileInputStream;
328
       import java.io.InputStreamReader;
329
       import java.util.ArrayList;
330
       import java.util.regex.Pattern;
331
       import com.test.XMLHelper Ran;
332
       public class Smart_PathAdd2 {
333
            public static void main(String[] args) throws Exception{
                 System.out.println("begin:");
334
                 String output="E:\\毕设实验\\SmartShelf\\path_temp3.txt";
335
                 String path1="E:\\毕设实验\\SmartShelf\\path.txt";
336
337
                 String path2="E:\\毕设实验\\SmartShelf\\path_old3.txt";
338
                 int i=5:
                 int[] array={21,22,23,24};
339
340
                 ArrayList list=new ArrayList();
341
                 for(int num: array)
342
                      list.add(num);
                 File file1=new File(path1);
343
344
                 InputStreamReader isr1=new InputStreamReader(new FileInputStream(file1));
345
                 BufferedReader br1=new BufferedReader(isr1);
346
                 File file2=new File(path2);
                 InputStreamReader isr2=new InputStreamReader(new FileInputStream(file2));
347
                 BufferedReader br2=new BufferedReader(isr2);
348
                 String line1;
349
                 while((line1=br1.readLine())!=null){
350
```

```
351
                      boolean b=Pattern.matches(".*bpel", line1);
352
                      if(b){
                           System.out.println(line1);
353
354
                           XMLHelper_Ran.stringexport(line1+"\n",output);
355
                           String line2;
                           int count=0;
356
                           while((line2=br2.readLine())!=null){
357
                               if(line2.equals(line1)){
358
                                    count=0;
359
360
                               }else{
                                    boolean b2=Pattern.matches(".*bpel", line2);
361
                                    if(b2){
362
363
                                         count=0;
                                         break;
364
365
                                    }else{
366
                                         count++;
                                         if(list.contains(count)){
367
                                              System.out.println("add "+line2);
368
369
                                              XMLHelper_Ran.stringexport(line2+"\n",output);
370
                                         }
371
                                    }
372
                               }
373
374
                      }
375
                      else{
376
                           System.out.println("1"+line1);
                          XMLHelper_Ran.stringexport(line1+"\n",output);
377
378
                      }
379
                 }
380
            }
381
        }
382
       package other;
383
       import java.io.BufferedReader;
384
       import java.io.File;
385
       import java.io.FileInputStream;
       import java.io.InputStreamReader;
386
387
       import java.util.regex.Pattern;
388
       import com.test.XMLHelper Ran;
389
       public class SmartShelf Add {
            public static void main(String[] args) throws Exception{
390
391
                 System.out.println("begin:");
392
                 String output="E:\\毕设实验\\SmartShelf\\path_temp3333.txt";
                 String path1="E:\\毕设实验\\SmartShelf\\path_temp333.txt";
393
                 String path2="E:\\毕设实验\\SmartShelf\\path_Add.txt";
394
395
                 File file1=new File(path1);
396
                 InputStreamReader isr1=new InputStreamReader(new FileInputStream(file1));
                 BufferedReader br1=new BufferedReader(isr1);
397
                 File file2=new File(path2);
398
                 InputStreamReader isr2=new InputStreamReader(new FileInputStream(file2));
399
                 BufferedReader br2=new BufferedReader(isr2);
400
```

```
401
                 String line1;
                 while((line1=br1.readLine())!=null){
402
403
                      boolean b=Pattern.matches(".*bpel", line1);
404
                      if(b){
405
                           System.out.println(line1);
                           XMLHelper_Ran.stringexport(line1+"\n",output);
406
407
                           String line2;
                           while((line2=br2.readLine())!=null){
408
                               if(line2.equals(line1)){
409
410
                                    System.out.println("
                                                            haha"+line2);
411
                                    boolean b2=Pattern.matches(".*bpel", line2);
412
413
                                    if(b2){
414
                                         break;
415
                                    }else{
416
                                         System.out.println(line2);
417
                                         XMLHelper_Ran.stringexport(line2+"\n",output);
418
                                    }
419
                               }
420
                           }
421
                      }
422
                      else{
423
                           System.out.println(line1);
424
                          XMLHelper_Ran.stringexport(line1+"\n",output);
425
                      }
426
                 }
427
            }
428
       }
429
       package other;
430
       import java.io.BufferedReader;
431
       import java.io.File;
432
       import java.io.FileInputStream;
433
       import java.io.InputStreamReader;
434
       import java.util.regex.Pattern;
435
       import com.test.XMLHelper_Ran;
436
       public class Travel_Add {
437
            public static void main(String[] args) throws Exception{
438
                 System.out.println("begin:");
439
                 String output="E:\\毕设实验\\Travel\\path new22222.txt";
440
                 String path1="E:\\毕设实验\\Travel\\path_new2.txt";
441
                 String path2="E:\\毕设实验\\Travel\\path_Add.txt";
442
                 File file1=new File(path1);
443
                 InputStreamReader isr1=new InputStreamReader(new FileInputStream(file1));
444
                 BufferedReader br1=new BufferedReader(isr1);
445
                 File file2=new File(path2);
446
                 InputStreamReader isr2=new InputStreamReader(new FileInputStream(file2));
447
                 BufferedReader br2=new BufferedReader(isr2);
                 String line1;
448
449
                 while((line1=br1.readLine())!=null){
                      boolean b=Pattern.matches(".*bpel", line1);
450
```

```
451
                      if(b){
452
                           System.out.println(line1);
453
                           XMLHelper_Ran.stringexport(line1+"\n",output);
454
                           String line2;
455
                           while((line2=br2.readLine())!=null){
456
                                if(line2.equals(line1)){
                                     System.out.println("
457
                                                             haha"+line2);
458
                                }else{
                                     boolean b2=Pattern.matches(".*bpel", line2);
459
460
                                     if(b2){
461
                                          break;
462
                                     }else{
463
                                          System.out.println(line2);
                                          XMLHelper_Ran.stringexport(line2+"\n",output);
464
                                     }
465
                                }
466
467
                           }
468
                      }
                      else{
469
470
                           System.out.println(line1);
471
                           XMLHelper_Ran.stringexport(line1+"\n",output);
472
                      }
473
                 }
474
            }
475
476
       package lizi;
477
       import java.util.ArrayList;
478
       import java.util.HashMap;
479
       public class SusSetReduce {
480
             public HashMap<String,Integer> TruePath=new HashMap<String,Integer>();
481
            public HashMap<String,Integer> FalsePath=new HashMap<String,Integer>();
482
            public Parse parse;
483
            public static ArrayList S=new ArrayList();
484
            public void susipion(){
485
                 S.add(null);
486
487
            public void predicate(){
488
                 Node node;
489
490
            public void atom(){
491
                 Node node;
492
            }
493
        }
494
       package lizi;
495
       import java.io.File;
496
       import java.util.ArrayList;
497
       public class RunTestCase {
498
            Parse parse;
499
            public File file=parse.BPELProgram;
500
            public boolean deploy(){
```

```
501
                 return false;
502
            }
503
            public String sendMessage(ArrayList list){
                 return "";
504
505
506
            public boolean compareResult(String s1,String s2){
507
                 return true;
508
            }
       }
509
510
       package lizi;
       import java.util.ArrayList;
511
512
       import java.util.HashMap;
513
       import java.util.TreeMap;
514
       public class Predicate_sort {
515
            SusSetReduce pd;
516
            public TreeMap<Double, String> map=new TreeMap<Double,String>();
            public TreeMap<Double, String> sober(HashMap TruePath,HashMap FalsePath){
517
518
                 ArrayList list=SusSetReduce.S;
519
                 return map;
            }
520
521
        }
522
       package lizi;
523
       import java.io.File;
524
       import java.io.FileNotFoundException;
525
       import java.io.IOException;
526
       import java.util.ArrayList;
527
       import org.dom4j.Document;
528
       public class Parse {
529
            public File BPELProgram;
            public ArrayList<Node> list;
530
531
            public File getFile(){
                 return this.BPELProgram;
532
533
            public boolean readwsdlfile(String filepath) throws FileNotFoundException, IOException {
534
535
                 return true:
536
537
            public void parseWsdl(Document document){
538
                 Node node:
539
540
            public Node getChildren(Node node){
541
                 return node;
542
            }
543
        }
544
       package lizi;
545
       import java.util.ArrayList;
546
       public class Output {
            private Predicate_sort s;
547
            private ArrayList list;
548
549
            public void result(){
550
       }
```

```
551
        }
552
        package lizi;
        import java.util.ArrayList;
553
554
        public class Node {
555
            private int id;
556
            private String name;
            private String type;
557
            private int responseId;
558
            private int childNumber;
559
560
            private int beforeNumber;
            private ArrayList beforeNodes = new ArrayList();
561
562
            private ArrayList afterNodes = new ArrayList();
            private ArrayList chilidNodes = new ArrayList();
563
564
            Node(){
565
566
            public int getBeforeNumber() {
567
                 return beforeNumber;
568
569
            public void setBeforeNumber(int beforeNumber) {
570
                 this.beforeNumber = beforeNumber:
571
572
            public ArrayList getChilidNodes() {
                 return chilidNodes;
573
574
575
            public void setChilidNodes(ArrayList chilidNodes) {
                 this.chilidNodes = chilidNodes;
576
577
             }
578
            public int getId() {
579
                 return id;
580
581
            public void setId(int id) {
582
                 this.id = id;
583
584
            public String getName() {
585
                 return name;
586
587
            public void setName(String name) {
588
                 this.name = name:
589
590
            public String getType() {
591
                 return type;
592
            public void setType(String type) {
593
594
                 this.type = type;
595
596
            public int getResponseId() {
597
                 return responseId;
598
            public void setResponseId(int responseId) {
599
                 this.responseId = responseId;
600
```

```
601
            }
            public int getChildNumber() {
602
                 return childNumber;
603
604
            }
605
            public void setChildNumber(int childNumber) {
                 this.childNumber = childNumber;
606
607
            }
608
            public ArrayList getBeforeNodes() {
                 return beforeNodes;
609
610
            }
            public void setBeforeNodes(ArrayList beforeNodes) {
611
                 this.beforeNodes = beforeNodes;
612
613
            public ArrayList getAfterNodes() {
614
                 return afterNodes;
615
616
617
            public void setAfterNodes(ArrayList afterNodes) {
                 this.afterNodes = afterNodes;
618
619
            }
            public String toString() {
620
621
                 /*String ret = this.getId() + " " + this.getResponseId() + " "
                           + this.getAfterNodes().size() + "" + this.getType() + "" \\
622
                           + this.getName() + " "+this.getPredict();
623
                 conditions = this.getConditions();
624
625
                 return ret;
626
627
            public int getbeforeNumber(Node node) {
628
                 return node.beforeNodes.size();
629
            }
630
        }
631
       package com.test;
       import java.io.File;
632
633
       import java.io.FileNotFoundException;
       import java.io.FileOutputStream;
634
635
       import java.io.FileWriter;
636
       import java.io.IOException;
637
       import java.io.OutputStream;
638
       import java.io.OutputStreamWriter;
639
       import java.io. Writer;
640
       import java.util.ArrayList;
641
       import java.util.HashMap;
642
       import java.util.Iterator;
643
       import java.util.Map;
644
       import java.util.Map.Entry;
645
       import java.util.Set;
646
       import org.dom4j.Attribute;
647
       import org.dom4j.Document;
648
       import org.dom4j.Element;
649
       import org.dom4j.io.OutputFormat;
       import org.dom4j.io.SAXReader;
650
```

```
import org.dom4j.io.XMLWriter;
651
652
       import com.test.bpelbean.Message;
       import com.test.bpelbean.Value;
653
654
       public class XMLHelper_Ran {
            public static HashMap<String, ArrayList<String>> hashMap = new HashMap<String,</pre>
655
656
            ArrayList<String>>();
            public static HashMap<String, String> hashBpelHashMap = new HashMap<String,
657
658
            String>();
            public static HashMap<String, ArrayList<String>> finalHashMap = new HashMap<String,
659
660
            ArrayList<String>>();
            public static void main(String args[]) throws FileNotFoundException, IOException {
661
                  String bpelPath ="D:\\Workspace1\\DebugTest\\bpel\\SmartShelfProcess.bpel";
662
663
                  readwsdlfile(bpelPath);
                  Set set=hashMap.entrySet();
664
                  for(Object o:set){
665
                       Map.Entry entry=(Map.Entry)o;
666
667
                       String key=(String) entry.getKey();
                       ArrayList list=(ArrayList) entry.getValue();
668
                       System.out.println(key+" "+list);
669
670
                 }
671
672
            public static Document openXMLFile(String filePath) {
                 Document document = null;
673
                 SAXReader reader = new SAXReader();
674
675
                 try {
                      File file = new File(filePath);
676
                      document = reader.read(file);
677
678
                 } catch (Exception e) {
679
                      e.printStackTrace();
680
681
                 return document;
            }
682
683
            public static boolean writeXMLFile(Document document, String filePath) {
684
                 boolean flag = false;
685
                 XMLWriter writer = null;
                 OutputFormat format = OutputFormat.createPrettyPrint();
686
687
                 format.setEncoding("UTF-8");
688
                 try {
                      File file = new File(filePath);
689
690
                      writer = new XMLWriter(new FileWriter(file), format);
                      writer.write(document);
691
                      writer.flush();
692
                      writer.close();
693
694
                      flag = true;
695
                 } catch (Exception e) {
696
                      flag = false;
697
                      e.printStackTrace();
698
                 return flag;
699
700
            }
```

```
701
             public static boolean readwsdlfile(String filepath)
702
                       throws FileNotFoundException, IOException {
703
                  try {
704
                       File file = new File(filepath);
705
                       if (!file.isDirectory()) {
                            System.out.println("absolutepath=" + file.getAbsolutePath());
706
                            System.out.println("name=" + file.getName());
707
708
                            String absolutepath = file.getAbsolutePath();
                            Document document = openXMLFile(absolutepath);
709
710
                            parseWsdl(document);
                       } else if (file.isDirectory()) {
711
                            String[] filelist = file.list();
712
713
                            for (int i = 0; i < filelist.length; i++) {
                                 File readfile = new File(filepath + "\\" + filelist[i]);
714
715
                                 if (!readfile.isDirectory()) {
716
                                      if (filelist[i].contains(".wsdl")) {
717
                                           String absolutepath = readfile.getAbsolutePath();
718
                                           Document document = openXMLFile(absolutepath);
719
                                           parseWsdl(document);
720
                                      }
721
                                 } else if (readfile.isDirectory()) {
722
                                      readwsdlfile(filepath + "\\" + filelist[i]);
723
                                 }
724
                            }
725
                  } catch (FileNotFoundException e) {
726
727
                       System.out.println("readfile()
                                                        Exception: " + e.getMessage());
728
729
                  return true;
730
             }
731
             public static void parseWsdl(Document document) {
                  Element root = document.getRootElement();
732
733
                  ArrayList<Message> arrayList = new ArrayList<Message>();
734
                  ArrayList<Value> values = new ArrayList<Value>();
735
                  for (Iterator iter = root.elementIterator(); iter.hasNext();) {
736
                       Element element = (Element) iter.next();
737
                       if (element.getName().equals("message")) {
738
                            Message message = new Message();
                            Attribute attribute = element.attribute("name");
739
740
                            String key = attribute.getValue();
741
                            Element partElement = element.element("part");
742
                            Attribute elAttribute = partElement.attribute("element");
                            String refString = elAttribute.getValue();
743
744
                            String a[] = refString.split(":");
745
                            message.setName(key);
746
                            message.setRefsString(a[1]);
747
                            arrayList.add(message);
                       } else if (element.getName().equals("types")) {
748
                            Element tyElement = element.element("schema");
749
                            for (Iterator iterator = tyElement.elementIterator(); iterator
750
```

```
.hasNext();) {
751
752
                                Value value = new Value();
                                Element elementOut = (Element) iterator.next();
753
754
                                String refName = elementOut.attribute("name").getValue();
755
                                ArrayList<String> arrayList2 = new ArrayList<String>();
                                Element elementSequence = elementOut.element("complexType")
756
                                          .element("sequence");
757
758
                                if (elementSequence != null) {
                                     for (Iterator iterator2 = elementSequence
759
760
                                               .elementIterator(); iterator2.hasNext();) {
                                          Element elementInner = (Element) iterator2.next();
761
                                          String value1 = elementInner.attribute("name")
762
763
                                                    .getValue();
                                          arrayList2.add(value1);
764
765
                                     }
766
767
                                value.setRefName(refName);
768
                                value.setValue(arrayList2);
769
                                values.add(value);
770
                           }
771
                      }
772
                  }
773
                 addtoHashmap(arrayList, values);
774
775
            private static void addtoHashmap(ArrayList<Message> arrayList,
776
                      ArrayList<Value> values) {
777
                 for (int i = 0; i < arrayList.size(); i++) {
778
                      String name = arrayList.get(i).getName();
779
                      String refname = arrayList.get(i).getRefsString();
780
                      for (int j = 0; j < values.size(); j++) {
781
                           String reString = values.get(j).getRefName();
                           if (refname.equals(reString)) {
782
783
                                hashMap.put(name, values.get(j).getValue());
784
                           }
785
                      }
786
                 }
787
             }
788
             public static void parseBpelVariable(String filePath) {
                 Document document = openXMLFile(filePath);
789
790
                 Element root = document.getRootElement();
791
                 Element vsElement = root.element("variables");
792
                 for (Iterator iterator = vsElement.elementIterator(); iterator
793
                           .hasNext();) {
794
                      Element vElement = (Element) iterator.next();
795
                      String messageType = null;
796
                      if (vElement.attribute("messageType") != null) {
797
                           messageType = vElement.attribute("messageType").getValue();
                           messageType = messageType.split(":")[1];
798
799
                      }
800
```

```
801
                      String name = vElement.attribute("name").getValue();
802
                      hashBpelHashMap.put(messageType, name);
803
804
                 bpelWsdlParse();
805
            public static void bpelWsdlParse() {
806
                 for (Entry<String, ArrayList<String>> entry: hashMap.entrySet()) {
807
808
                      String meString = entry.getKey();
                      ArrayList<String> valueList = entry.getValue();
809
810
                      for (Entry<String, String> entry2 : hashBpelHashMap.entrySet()) {
                           String meString2 = entry2.getKey();
811
                           String nameString = entry2.getValue();
812
813
                           if (meString.equals(meString2)) {
                                finalHashMap.put(nameString, valueList);
814
                                System.out.println(nameString+" "+valueList+"IllIllIllIllIllIll");
815
                           }
816
817
                      }
                 }
818
819
            }
            public static boolean stringexport(String parameter1, String path)
                                                                                throws Exception {
820
821
                 boolean flag = false;
822
                 OutputStream os;
823
                 try {
824
                      os = new FileOutputStream(new File(path), true);
825
                      Writer fos = new OutputStreamWriter(os);
                      fos.write(parameter1);
826
827
                      fos.flush();
828
                      fos.close();
829
                      flag = true;
                  } catch (FileNotFoundException e) {
830
831
                      e.printStackTrace();
832
                 }
833
                 return flag;
834
            }
835
        }
836
       package com.test;
837
       import java.util.Calendar;
838
       import org.apache.axiom.om.OMAbstractFactory;
       import org.apache.axiom.om.OMElement;
839
840
       import org.apache.axiom.om.OMFactory;
841
       import org.apache.axiom.om.OMNamespace;
842
       import org.apache.axis2.AxisFault;
843
       import org.apache.axis2.addressing.EndpointReference;
844
       import org.apache.axis2.client.Options;
845
       import org.apache.axis2.client.ServiceClient;
846
       public class TravelClient
847
848
            public synchronized static OMElement sendmessage(String string, int amount) throws
849
            Exception
850
```

```
851
                 OMElement res=null;
                 ServiceClient sc=null;
852
853
                  try {
854
                       sc = new ServiceClient();
855
                       Options opts = new Options();
                       opts.setTo(new EndpointReference(
856
                                "http://localhost:8080/ode/processes/TravelAgency"));
857
                       opts.setAction("www.ustb.edu.cn/bpel/travelagency/process");
858
                       sc.setOptions(opts);
859
860
                       long startTime = Calendar.getInstance().getTimeInMillis();
                        res = sc.sendReceive(createPayLoad(string,amount));
861
                       long endTime = Calendar.getInstance().getTimeInMillis();
862
863
                       System.out.println(string+"&&"+amount);
864
                      System.out.println(res);
865
866
                  } catch (AxisFault e) {
867
                       e.printStackTrace();
868
                  }finally{
869
                       sc.cleanupTransport();
870
                  }
871
                 return res;
872
            }
             public static OMElement createPayLoad(String string,int parameter2){
873
                      OMFactory fac = OMAbstractFactory.getOMFactory();
874
875
                      OMNamespace omNs =
            fac.createOMNamespace("www.ustb.edu.cn/bpel/travelagency", "ustb");
876
877
                      OMNamespace omNs1 =
878
            fac.createOMNamespace("www.ustb.edu.cn/bpel/travelagency", "ustb");
879
                      OMElement method = fac.createOMElement("TravelAgencyRequest",omNs);
880
                      OMElement value1 = fac.createOMElement("name".omNs1):
881
                      OMElement value2 = fac.createOMElement("amount",omNs1);
                      value1.setText(string+"");
882
883
                      value2.setText(parameter2+"");
                      method.addChild(value1);
884
885
                      method.addChild(value2);
886
                    System.out.println(method);
887
                     return method;
888
                 };
889
890
       package com.test;
891
       import java.util.HashMap;
892
       import java.util.Iterator;
893
       import java.util.Map;
894
       import org.dom4j.Document;
895
       import org.dom4j.Element;
896
       public class StringMapper {
897
            private static Map<String, String> stringMap = new HashMap<String, String>();
898
            static {
899
                 Document document = XMLHelper_Ran.openXMLFile("string_en.xml");
900
                 Element root = document.getRootElement();
```

```
901
                 for (Iterator iter = root.elementIterator(); iter.hasNext();) {
                      Element element = (Element) iter.next();
902
903
                      String name = null;
904
                      String value = null;
905
                      for (Iterator ii = element.elementIterator(); ii.hasNext();) {
                           Element e = (Element) ii.next();
906
907
                           if (e.getName().equals("name")) {
908
                                name = e.getText();
                           } else if (e.getName().equals("value")) {
909
910
                                value = e.getText();
911
                           }
912
                      }
                      if (name != null && value != null) {
913
914
                           stringMap.put(name, value);
915
                      }
916
                  }
917
             }
918
            public static String get(String name) {
919
                 return stringMap.get(name);
920
             }
921
        }
922
        package com.test;
923
        import com.test.update.InventoryUpdate;
924
        import com.test.update.ProductUpdate;
925
        import com.test.update.ShelfUpdate;
926
        import com.test.update.WarehouseUpdate;
927
        public class smartUpdate {
928
            public static void update(){
929
            InventoryUpdate inventory=new InventoryUpdate();
930
            inventory.inventoryupdate();
931
            ProductUpdate product=new ProductUpdate();
932
             product.productupdate();
            ShelfUpdate shelf=new ShelfUpdate();
933
934
            try {
935
                 shelf.shelfupdate();
936
             } catch (Exception e) {
937
                 e.printStackTrace();
938
939
             WarehouseUpdate warehouse=new WarehouseUpdate();
940
941
                 warehouse.warehouseupdate();
942
                 Thread.sleep(1000);
943
             } catch (Exception e) {
944
                 e.printStackTrace();
945
             }
946
             }
947
948
        package com.test;
949
        import java.util.Calendar;
950
        import org.apache.axiom.om.OMAbstractFactory;
```

```
951
        import org.apache.axiom.om.OMElement;
 952
        import org.apache.axiom.om.OMFactory;
 953
        import org.apache.axiom.om.OMNamespace;
 954
        import org.apache.axis2.AxisFault;
 955
        import org.apache.axis2.addressing.EndpointReference;
 956
        import org.apache.axis2.client.Options;
 957
        import org.apache.axis2.client.ServiceClient;
        public class quoteprocessclient
 958
 959
 960
             public synchronized static OMElement sendmessage(String name, int amount) throws
 961
             Exception
 962
             {
 963
                  OMElement res=null;
                  ServiceClient sc =null;
 964
 965
                  try {
 966
                      sc = new ServiceClient();
 967
                      Options opts = new Options();
 968
                      opts.setTo(new EndpointReference(
 969
                                "http://localhost:8080/ode/processes/QuoteProcess"));
                      opts.setAction("www.ustb.edu.cn/bpel/quoteprocess/process");
 970
 971
                      sc.setOptions(opts);
 972
                      long startTime = Calendar.getInstance().getTimeInMillis();
                      res = sc.sendReceive(createPayLoad(name,amount));
 973
                      long endTime = Calendar.getInstance().getTimeInMillis();
 974
 975
                      System.out.println(name+"&&"+amount);
                      System.out.println(res);
 976
 977
                  } catch (AxisFault e) {
 978
                      e.printStackTrace();
 979
                  } finally{
 980
                      sc.cleanupTransport();
 981
                  }
 982
                  return res;
 983
 984
             public static OMElement createPayLoad(String parameter1,int parameter2){
 985
                  OMFactory fac = OMAbstractFactory.getOMFactory();
 986
                  OMNamespace omNs =
 987
             fac.createOMNamespace("www.ustb.edu.cn/bpel/quoteprocess", "ustb");
 988
                  OMNamespace omNs1 =
             fac.createOMNamespace("www.ustb.edu.cn/bpel/quoteprocess", "ustb");
 989
 990
                  OMElement method = fac.createOMElement("QuoteProcessRequest",omNs);
 991
                  OMElement value1 = fac.createOMElement("Name",omNs1);
 992
                  OMElement value2 = fac.createOMElement("Amount",omNs1);
                  value1.setText(parameter1);
 993
 994
                  value2.setText(parameter2+"");
 995
                  method.addChild(value1);
 996
                  method.addChild(value2);
                  System.out.println("���,���\!:"+method);
 997
 998
                  return method;
 999
             }
        }
1000
```

```
1001
        package com.test;
1002
        import java.util.ArrayList;
1003
        import java.util.Iterator;
1004
        import java.util.List;
1005
        import org.apache.axiom.om.OMElement;
        import org.apache.axiom.om.OMNode;
1006
1007
        public class OmelementParse
1008
        {
1009
             public static List<String> getresult(OMElement element)
1010
                  if (element == null){
1011
1012
                       return null:
1013
                  Iterator iterator = element.getChildElements();
1014
                  List<String> list = new ArrayList<String>();
1015
1016
                  while (iterator.hasNext())
1017
                  {
1018
                       OMNode omNode = (OMNode) iterator.next();
1019
                       if (omNode.getType() == OMNode.ELEMENT_NODE){
1020
                           OMElement omElement = (OMElement) omNode;
1021
                           String temp=omElement.getText().trim();
1022
                           list.add(temp);
1023
                       }
1024
                  }
1025
                  return list;
1026
             }
1027
        }
1028
        package com.test;
1029
        import java.util.Calendar;
        import org.apache.axiom.om.OMAbstractFactory;
1030
1031
        import org.apache.axiom.om.OMElement;
1032
        import org.apache.axiom.om.OMFactory;
1033
        import org.apache.axiom.om.OMNamespace;
1034
        import org.apache.axis2.AxisFault;
1035
        import org.apache.axis2.addressing.EndpointReference;
        import org.apache.axis2.client.Options;
1036
1037
        import org.apache.axis2.client.ServiceClient;
1038
        public class MessageClient
1039
1040
             public synchronized static OMElement sendmessage(String name, int amount) throws
1041
             Exception
1042
1043
                  OMElement res=null;
                  ServiceClient sc=null;
1044
1045
                   try {
1046
                         sc = new ServiceClient();
1047
                        Options opts = new Options();
                        opts.setTo(new EndpointReference(
1048
1049
                                 "http://localhost:8080/ode/processes/SmartShelfProcess"));
1050
                        opts.setAction("ustb.bpel.org/process");
```

```
1051
                        sc.setOptions(opts);
                        long startTime = Calendar.getInstance().getTimeInMillis();
1052
                         res = sc.sendReceive(createPayLoad(name,amount));
1053
1054
                        long endTime = Calendar.getInstance().getTimeInMillis();
1055
                        System.out.println(name+"&&"+amount);
                       System.out.println("SmartShelf----"+res);
1056
                   } catch (AxisFault e) {
1057
                        e.printStackTrace();
1058
                   }finally{
1059
1060
                        sc.cleanupTransport ();
1061
                   }
1062
                  return res:
1063
             }
              public static OMElement createPayLoad(String parameter1,int parameter2){
1064
1065
                       OMFactory fac = OMAbstractFactory.getOMFactory();
                       OMNamespace omNs = fac.createOMNamespace("ustb.bpel.org", "ustb");
1066
                       OMNamespace omNs1 = fac.createOMNamespace("ustb.bpel.org", "ustb");
1067
1068
                       OMElement method = fac.createOMElement("SmartShelfProcessRequest",omNs);
                       OMElement value1 = fac.createOMElement("name",omNs1);
1069
                       OMElement value2 = fac.createOMElement("amount",omNs1);
1070
1071
                       value1.setText(parameter1);
1072
                       value2.setText(parameter2+"");
                       method.addChild(value1);
1073
                       method.addChild(value2);
1074
1075
                      System.out.println(method);
1076
                       return method;
1077
                  };
1078
1079
        package com.test;
1080
        import java.io.File;
1081
        public class getFiles {
1082
             public static void main(String[] args) {
1083
                  File files = new File(
1084
                            "C:\\Users\\Administrator\\Desktop\\实验\\travelmutant\\");
1085
                  File[] filess = files.listFiles();
                  for (int i = 0; i < filess.length; i++){
1086
1087
                       System.out.println(filess[i]);
1088
1089
                  System.out.println(filess.length);
1090
             }
1091
1092
        package com.test;
1093
        import java.io.BufferedInputStream;
1094
        import java.io.BufferedOutputStream;
1095
        import java.io.BufferedReader;
1096
        import java.io.File;
1097
        import java.io.FileInputStream;
1098
        import java.io.FileNotFoundException;
1099
        import java.io.FileReader;
1100
        import java.io.IOException;
```

```
1101
         import java.io.PrintStream;
1102
         import java.io.RandomAccessFile;
1103
         import java.io.Reader;
1104
         import java.util.ArrayList;
1105
         import java.util.HashMap;
         import javax.swing.JTextArea;
1106
1107
         import com.test.bpelbean.TestcaseNode;
         public class FileControl {
1108
1109
             public static String re=null;
1110
             public static Boolean deletefile(String deployname, String abstractfilename) throws
             InterruptedException {
1111
                  boolean flag = false;
1112
                  String path = "D:/Programs/tomcat 6old/webapps/ode/WEB-INF/processes";
1113
                  File directory=new File(path);
1114
                  if (!directory.isDirectory()) {
1115
                       System.out.println("删除文件夹找不到");
1116
1117
                       flag = false;
1118
                  }else{
1119
                       flag=parse(directory,deployname,abstractfilename);
1120
                  }
1121
                  return flag;
1122
              }
              public static void readFileByLines(String fileName, JTextArea expectArea) {
1123
                  File file = new File(fileName);
1124
1125
                  BufferedReader reader = null;
1126
                  try {
                       System.out.println("以行为单位读取文件内容,一次读一整行:");
1127
1128
                       reader = new BufferedReader(new FileReader(file));
1129
                       String tempString = null;
                       int line = 1:
1130
1131
                       while ((tempString = reader.readLine()) != null) {
                            expectArea.append(tempString+"\r\n");
1132
                            System.out.println("line " + line + ": " + tempString);
1133
                            line++;
1134
1135
                       }
1136
                       reader.close();
1137
                       }catch (IOException e) {
1138
                            e.printStackTrace();
1139
                       }finally {
1140
                            if (reader != null) {
1141
                                try {
1142
                                     reader.close();
                                 } catch (IOException e1) {
1143
1144
                            }
1145
                       }
1146
                  }
1147
              public static void readFileByLines(String fileName,HashMap<String,Integer> Path,String
1148
              flag,JTextArea expectArea) {
1149
                  File file = new File(fileName);
1150
```

```
1151
                  BufferedReader reader = null;
1152
                  try {
                       System.out.println("以行为单位读取文件内容,一次读一整行:");
1153
1154
                       reader = new BufferedReader(new FileReader(file));
1155
                       String tempString = null;
                       int line = 1;
1156
                       while ((tempString = reader.readLine()) != null) {
1157
                            if(tempString.contains(flag)){
1158
1159
                                 if(Path.containsKey(tempString)){
1160
                                     Path.put(tempString, Path.get(tempString)+1);
1161
                                 }else{
1162
                                     Path.put(tempString, 1);
1163
                                 expectArea.append(tempString+"\r\n");
1164
                                 System.out.println("line " + line + ": " + tempString);
1165
                                 line++;
1166
1167
                            }
1168
                       }
1169
                       reader.close();
                       }catch (IOException e) {
1170
1171
                            e.printStackTrace();
1172
                       }finally {
                            if (reader != null) {
1173
1174
                                 try {
1175
                                     reader.close();
                                 } catch (IOException e1) {
1176
1177
                            }
1178
                       }
1179
                  }
1180
              }
1181
              public static ArrayList readFile(String fileName, JTextArea expectArea) {
                  File file = new File(fileName);
1182
1183
                  BufferedReader reader = null;
                  ArrayList list=new ArrayList();
1184
1185
                  try{
                       System.out.println("以行为单位读取文件内容,一次读一整行:");
1186
1187
                       reader = new BufferedReader(new FileReader(file));
1188
                       String tempString = null;
                       int line = 1;
1189
1190
                       tempString=reader.readLine();
1191
                       System.out.println(reader.readLine());
1192
                       System.out.println(tempString);
1193
                       String[] str=tempString.split("#");
1194
                       list.add("entry");
1195
                       list.add("receiveInput");
1196
                       expectArea.append("entry");
1197
                       expectArea.append("receiveInput");
1198
                       for(int i=0; i < str.length; i++){}
                            expectArea.append(str[i]+" ");
1199
1200
                            list.add(str[i]);
```

```
1201
                            if(i\%5==0){
1202
                                 expectArea.append("\n");
1203
                            }
1204
                       }
1205
                       expectArea.append("replyOutput");
                       list.add("replyOutPut");
1206
1207
                   }catch (IOException e) {
                       e.printStackTrace();
1208
1209
                   }finally {
1210
                       if (reader != null) {
1211
                            try {
                                 reader.close();
1212
1213
                            } catch (IOException e1) {
1214
1215
                            }
1216
1217
                       return list;
1218
1219
              public static ArrayList readFileEndLine(String fileName) {
1220
                       File file = new File(fileName);
1221
                       BufferedReader reader = null;
1222
                       ArrayList list=new ArrayList();
1223
                       try {
                            System.out.println("以行为单位读取文件内容,一次读一整行:");
1224
                            reader = new BufferedReader(new FileReader(file));
1225
1226
                            String tempString = null;
                            int line = 1;
1227
1228
                            String s=null;
1229
                           while((s=reader.readLine())!=null){
1230
                                s=tempString;
1231
                            System.out.println(tempString);
1232
1233
                            String[] str=tempString.split("#");
1234
                            list.add("entry");
1235
                            list.add("receiveInput");
1236
                            for(int i=0;i<str.length;i++){
1237
                                 list.add(str[i]);
1238
                            }
1239
                           list.add("replyOutPut");
1240
                       } catch (IOException e) {
1241
                            e.printStackTrace();
1242
                       } finally {
1243
                            if (reader != null) {
1244
                                 try {
1245
                                      reader.close();
1246
                                 } catch (IOException e1) {
1247
1248
                       }
1249
1250
                       return list;
```

```
1251
              }
              public static void parseWsdlPath(String deployname,File directory){
1252
                   if(directory.isDirectory()){
1253
1254
                        File[] files=directory.listFiles();
1255
                        for(int i=0;i<files.length;i++){
                            if(files[i].isFile()){
1256
                                 String curName=files[i].getName();
1257
1258
                                 if(curName.equals(deployname)){
                                      System.out.println(files[i].getParentFile().getAbsolutePath());
1259
1260
                                      re=files[i].getParentFile().getAbsolutePath();
1261
                             }else{
1262
                                 File directorynew=new File(directory+"/"+files[i].getName());
1263
                                 parseWsdlPath(deployname,directorynew);
1264
                             }
1265
1266
                        }
1267
                   }
1268
1269
              private static boolean parse(File directory, String deletename, String abstractfilename) throws
              InterruptedException {
1270
1271
                   boolean flag=false;
1272
                   if(directory.isDirectory()){
                        File[] files = directory.listFiles();
1273
                        for (int i = 0; i < files.length; i++) {
1274
1275
                             if (files[i].isFile()) {
                                 String oldname = files[i].getName();
1276
1277
                                 if (oldname.equals(deletename)) {
1278
                                       files[i].delete();
1279
                                      Thread.sleep(1000);
1280
                                      try {
1281
                                           copyfile(files[i].getAbsolutePath(),abstractfilename);
1282
                                       } catch (Exception e) {
1283
                                           e.printStackTrace();
1284
                                      System.out.println("删除 bpel 文件成功");
1285
                                      String path = "D:/Programs/tomcat
1286
1287
              6old/webapps/ode/WEB-INF/processes";
1288
                                      File odepath=new File(path);
                                      File[] outer=odepath.listFiles();
1289
1290
                                       for(int j=0;j<outer.length;j++){
1291
                                           System.out.println(outer[j].getName());
1292
                                           if(outer[j].isFile()){
1293
                                                String
              deployname=files[i].getParentFile().getName()+".deployed";
1294
1295
                                                System.out.println(outer[j].getName()+" "+deployname);
1296
                                                if(deployname.equals(outer[j].getName())){
                                                     System.out.println("删除.deployed 文件成功");
1297
1298
                                                     outer[j].delete();
                                                     Thread.sleep(100);
1299
1300
                                                     flag=true;
```

```
1301
                                               }
                                          }
1302
                                      }
1303
1304
                                 }
1305
                            }else {
                                 File directorynew=new File(directory+"/"+files[i].getName());
1306
                                 parse(directorynew, deletename, abstractfilename);
1307
1308
                            }
                       }
1309
1310
                  }
1311
                  return flag;
1312
             public static Boolean copyfile(String topath, String frompath) throws Exception
1313
1314
1315
                  boolean flag=false;
                  System.out.println(topath+"~~~~~"+frompath);
1316
1317
                  File oldfile=new File(topath);
                  File newfile=new File(frompath);
1318
                  System.out.println(newfile.exists()+"^^^^^^^^^"+newfile.isFile());\\
1319
                  if(oldfile.exists()){
1320
1321
                       oldfile.delete();
1322
                  }
                  oldfile.createNewFile();
1323
                  if((!newfile.exists())||(!newfile.isFile()))
1324
1325
                       System.out.println("路径不是一个 directory 或者文件夹不存在");
1326
1327
                       flag=false;
1328
                   }else{
1329
                       FileInputStream fin = new FileInputStream(newfile.getAbsolutePath());
1330
                       BufferedInputStream bin = new BufferedInputStream(fin);
                       PrintStream pout = new PrintStream(oldfile);
1331
                       BufferedOutputStream bout = new BufferedOutputStream(pout);
1332
1333
                       int total =bin.available();
1334
                       int count:
1335
                       while((count = bin.available())!= 0)
1336
1337
                            int c = bin.read();
1338
                            bout.write((char)c);
1339
1340
                       bout.close();
1341
                       pout.close();
                       bin.close();
1342
                       fin.close();
1343
1344
                       flag=true;
1345
                  }
1346
                  return flag;
1347
              public static String comparefile(String oldpath, String newpath) throws Exception
1348
                  XMLHelper_Ran export = new XMLHelper_Ran();
1349
                  String result="";
1350
```

```
1351
                  boolean flag=false;
                  File oldfile=new File(oldpath);
1352
                  File newfile=new File(newpath);
1353
1354
                  if(!oldfile.isFile())
1355
                       System.out.println("源文件不是一个文件");
1356
                       flag=false;}
1357
                  if(!newfile.isFile())
1358
1359
1360
                      System.out.println("对比文件不是一个文件");
                      flag=false;
1361
1362
                  }
1363
                  try {
                       Reader fin1 = new FileReader(oldfile);
1364
                       Reader fin2 = new FileReader(newfile);
1365
                       BufferedReader bin1 = new BufferedReader(fin1);
1366
                       BufferedReader bin2 = new BufferedReader(fin2);
1367
1368
                      String s1=null;
1369
                      String s2=null;
                       while(((s1=bin1.readLine())!=null))
1370
1371
                       {
1372
                           s2=bin2.readLine();
                           if(!s1.equals(s2)) {
1373
                                XMLHelper_Ran.stringexport(newfile.getAbsolutePath()+"\n",
1374
1375
                                         "C:\\Users\\Administrator\\Desktop\\实验
1376
             \\smarshelfSlicing\\smartcompare1.txt");
                                XMLHelper_Ran.stringexport("原始版本: "+s1+"\n"+"故障版本:
1377
             "+s2+"\n",
1378
1379
                                         "C:\\Users\\Administrator\\Desktop\\实验
1380
             \\smarshelfSlicing\\smartcompare1.txt");
1381
                                XMLHelper_Ran.stringexport("\n\n",
                                         "C:\\Users\\Administrator\\Desktop\\实验
1382
             \\smarshelfSlicing\\smartcompare1.txt");
1383
                                result="different";
1384
1385
                                break;
1386
                           }else
1387
1388
                                result="same";
1389
1390
                        }
1391
                  } catch (FileNotFoundException e) {
1392
                      e.printStackTrace();
1393
                  }
1394
                  return result;
1395
             public TestcaseNode gettestcase(String testcasepath)
1396
                  String line = "";
1397
                  TestcaseNode testcasenode = null;
1398
                  String[] temp1;
1399
1400
                  int[] temp = null;
```

```
1401
                   @SuppressWarnings("rawtypes")
                   ArrayList templist = new ArrayList();
1402
1403
                   try {
                        RandomAccessFile rf = new RandomAccessFile(testcasepath, "rw");
1404
1405
                        try {
                            for (line = rf.readLine(); line != null; line = rf.readLine()) {
1406
                                 temp1 = line.split("#");
1407
                                 for(int i=0;i<temp1.length;i++)</pre>
1408
                                      temp[i]=Integer.parseInt(temp1[i]);
1409
1410
                                 System.out.println("temp'length:" + temp.length);
                                 if(temp.length==2)
1411
1412
1413
1414
                             }
                        } catch (IOException e) {
1415
                            e.printStackTrace();
1416
1417
                        }
1418
                   } catch (FileNotFoundException e) {
1419
                       e.printStackTrace();
1420
                   }
1421
                   return testcasenode;
1422
              }
1423
         package com.test;
1424
1425
         import java.io.IOException;
1426
         public class EngineImpl implements Engine {
1427
                      boolean deploy(String file1,String abstractfilename) throws InterruptedException {
1428
                       boolean flag=false;
1429
                   System.out.println(abstractfilename.endsWith("."));
                   flag=FileControl.deletefile(file1,abstractfilename);
1430
1431
                   return flag;
1432
1433
              public boolean start() {
                   String line = "";
1434
1435
                   boolean flag=false;
                   Runtime runtime = Runtime.getRuntime();
1436
1437
1438
                        Process process = runtime.exec("D://Programs//tomcat 6old//bin//startup.bat");
1439
                       flag=true;
                   } catch (IOException e) {
1440
1441
                       e.printStackTrace();
1442
1443
                   return flag;
1444
              }
1445
         }
1446
         package com.test;
         public interface Engine {
1447
              public boolean start();
1448
1449
              public boolean deploy(String file1, String abstractfilename) throws InterruptedException;
1450
         }
```

```
1451
         package com.test;
1452
         import java.util.Iterator;
1453
         import org.dom4j.Attribute;
1454
         import org.dom4j.Element;
1455
         public class ElementWraper {
              Element element;
1456
1457
              private String xPath;
              public ElementWraper() {
1458
1459
1460
              public ElementWraper(Element element) {
                  this.element = element;
1461
1462
              public Element getElement() {
1463
                  return element;
1464
1465
              }
              public void setElement(Element element) {
1466
                  this.element = element;
1467
1468
1469
              public String getXPath() {
                  return this.xPath;
1470
1471
1472
              public void setXPath(String xPath) {
                  this.xPath = xPath;
1473
1474
1475
              public String toString() {
1476
                  StringBuffer sb = new StringBuffer();
                  sb.append(element.getName() + " ");
1477
1478
                  for (Iterator iter = element.attributeIterator(); iter.hasNext();) {
1479
                        Attribute attribute = (Attribute) iter.next();
1480
                        sb.append(attribute.getName()).append("=")
1481
                                 .append(attribute.getValue()).append(" ");
1482
1483
                  return sb.toString();
1484
              }
1485
         }
1486
         package com.test;
1487
         import java.io.BufferedReader;
1488
         import java.io.BufferedWriter;
1489
         import java.io.File;
1490
         import java.io.FileNotFoundException;
1491
         import java.io.FileReader;
1492
         import java.io.FileWriter;
1493
         import java.io.IOException;
1494
         import java.io.Reader;
1495
         public class DeleteNull {
              public static void main(String[] args) {
1496
              File oldfile = new File("C:\\Users\\Administrator\\Desktop\\实验
1497
1498
                  try {
1499
                        Reader fin1 = new FileReader(oldfile);
                        BufferedReader reader = new BufferedReader(fin1);
1500
```