Zibin Mei

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Refactoring log:

Extract helper method: getPrimitives(), due to parent method too large

```
local-workspace - 501A3/src/Receiver/Deserializer.java - Eclipse
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! 📸 ▾ 🖟 매음! ② ▾ : ◙ : ✨ ▾ ② ▾ 🤮 ▾ 🔐 ♡ ▾ ! 🍄 🧀 🔗 ▾ ! 😭 🔊 🔡 🖫 📵 ጠ : 🐓 ▾ 🎮 ▾ 🌣 🗭 ▾ 🖒 >
                                                                                               Quick Access 🔛 🐉
🛱 Package E... 🖂 🗀 🗖
                                                                                 🗾 Deserializer.java 🖂
                        Nerializer.java
                                         ReceiverDriver.java
                                                              Sender Driver. java
                                                                                                                8
                                          THUEN - THEEREL . VULUEOJ (TU),
          Element objectNode = allObjects.get(index);
                         109
 @
                                      if (objectNode.getAttributeValue("id") != id) {
                         110
   ∨ 🔠 > src
                                                                                                                for (int i = 0 ; i < allobjects.size(); i++) {</pre>
                         111
     if (allObjects.get(i).getAttributeValue("id") == id)
                                                                                                                112
        > ReceiverDri
                         113
                                                       objectNode = allObjects.get(i);
                                                                                                                > 🛺 > SenderDriv
                                          }
                         114
      🕶 🚜 > Receiver
                                      }
        > 🛺 > Deserialize
                         116
                                      return objectNode;
        > 🛺 Inspector.java
                         117
                         118
                                  }
        > 🛺 > Receiver.jav
                         119
                                  //convert string into different primitive
        > 🛂 > Visualizer.ja
                         1200
                                  private Object getPrimitive(Class c,String value) {
      🗸 🚜 Sender
                         121
        > 🛂 collectionClas
                         122
                                      if (c.equals(int.class)) {
        return new Integer(value);
                         123
        A objectClass.ja
                         124
        ObjectCreato
                                      else if (c.equals(boolean.class)) {
                         125
        primitiveArray
                         126
                                          return new Boolean(value);
        > [] primitiveClass
                         127
        > 🛺 Sender.java
                                      else if (c.equals(char.class)) {
                         128
        > 🛺 Serializer.java
                                           return new Character(value.charAt(0));
                         129
   > 🖹 JRE System Library [
                         130
                                      }
   Referenced Libraries
                                      else if (c.equals(float.class)) {
                         131
   > 🗁 jdom
                                          return new Float(value);
                         132
      test.txt
                         133
                                       else if (c.equals(double.class)) {
     > test.XML
                         134
                                          return new Double(value);
 > R SourceCode [CPSC433]
                         135
                         136
                                      else if(c.equals(long.class)) {
                         137
                                          return new Long(value);
                         138
                         139
                                      }
                         140
                                      else if(c.equals(byte.class)) {
                         141
                                           return new Byte(value);
                         142
                                      }
                         143
                                      return value;
                         144
                         145
                                  }
                         146
                         147
                         148
                                  public Object getMainObject() {
                         1499
                        Writable
                                        Smart Insert
                                                       121 : 5
```

Extract helper method: getNodebyID(), due to redundant/duplicate

```
local-workspace - 501A3/src/Receiver/Deserializer.java - Eclipse
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聞 Package E... ♡ □ □
                       Serializer.java
                                       ReceiverDriver.java
                                                           Sender Driver. java
                                                                              🖊 Deserializer.java 🖂
         103
                                                                                                           104
                                    return arr;
@
                        105
   ∨ 👫 > src
                                                                                                           106
                                 //use to get the object node by its id
     🗸 📠 > (default packa
                                                                                                           107<sup>©</sup>
                                 private Element getNodebyID(String id) {
       > A > ReceiverDri
                                    int index = Integer.valueOf(id);
                        108
       > 🛺 > SenderDriv
                        109
                                     Element objectNode = allObjects.get(index);

▼ 

Receiver

                                     if (objectNode.getAttributeValue("id") != id) {
                        110
       > 🛺 > Deserialize
                                         for (int i = 0 ; i < allobjects.size(); i++) {</pre>
                        111
       > 🛺 Inspector.java
                                             if (allObjects.get(i).getAttributeValue("id") == id)
                        112
        > 🛺 > Receiver.jav
                                                    objectNode = allObjects.get(i);
                        113
       > 🛂 > Visualizer.ja
                        114
     🗸 📠 Sender
                        115
       > 🛂 collectionClas
                        116
        return objectNode;
                        117
        118
        //convert string into different primitive
                        1200
                                private Object getPrimitive(Class c,String value) {
        PrimitiveArray
        > 🛂 primitiveClas:
                        121
                        122
                                    if (c.equals(int.class)) {
        > 🛺 Sender.java
                                         return new Integer(value);
                        123
        > 🛺 Serializer.java
                        124
   JRE System Library [
                        125
                                    else if (c.equals(boolean.class)) {
   > 🖹 Referenced Libraries
                        126
                                         return new Boolean(value);
   > 🗁 jdom
                        127
     test.txt
                        128
                                     else if (c.equals(char.class)) {
     > test.XML
                                        return new Character(value.charAt(0));
                        129
 > Fig SourceCode [CPSC433
                        130
                                     else if (c.equals(float.class)) {
                        131
                        132
                                        return new Float(value);
                        133
                        134
                                     else if (c.equals(double.class)) {
                                         return new Double(value);
                        135
                        136
                                     else if(c.equals(long.class)) {
                        137
                        138
                                         return new Long(value);
                                    }
                        139
                        140
                                     else if(c.equals(byte.class)) {
                        141
                                         return new Byte(value);
                        142
                        143
                       Writable
                                       Smart Insert
                                                      106:1
```

Extract class: Drivers, due to class is hard to find in the crowed package

There maybe some rename as well