

adding a to-many relationship

Imagine you have an entity Project with a to-many relationship to ProjectStep. I wanted to present a report with rows for the projects and a sub report on each row listing the steps.

My solution was to create a getter in my Project EO:

```
public JRBeanCollectionDataSource theSteps() {  
    return new JRBeanCollectionDataSource( ERXArrayUtilities.sortedArraySortedWithKey(this.projectSteps(), "dueBy") );  
}
```

of course I had to import into my Project EO:

```
import net.sf.jasperreports.engine.data.JRBeanCollectionDataSource;
```

now I can access my relation 'theSteps' in iReport as a Field. I can then pass the field to my sub report. The only downside was that if I had a attribute 'stepDescription' in my relationship, iReport was expecting there to be a getter getStepDescription.

so I added to my EO ProjectStep:

```
public String getStepDescription () {  
    return this.stepDescription();  
}
```

and everyone was happy. I don't know if there is a way to get around the getter requirement.

There is a way around adding the accessors in the model. Assuming you have an entity called Person with a firstName and lastName attribute, you can create a source file called PersonBeanInfo.java with this content:

This means you can create and access fields in your Jasper .jrxml firstName and lastName, you do not need to create the getFirstName and getLastName accessors!

```
import java.beans.IntrospectionException;  
import java.beans.PropertyDescriptor;  
import java.beans.SimpleBeanInfo;  
import java.util.ArrayList;  
import java.util.List;  
public class PersonBeanInfo extends SimpleBeanInfo {  
  
    @Override  
    public PropertyDescriptor[] getPropertyDescriptors() {  
  
        try {  
            List<PropertyDescriptor> list = new ArrayList<>();  
list.add( new PropertyDescriptor( "firstName", Person.class, "firstName", "setFirstName" ) );  
list.add( new PropertyDescriptor( "lastName", Person.class, "lastName", "setLastName" ) );  
PropertyDescriptor[] array = new PropertyDescriptor[list.size()];  
array = list.toArray( array );  
return array;  
        }  
        catch( IntrospectionException e ) {  
            throw new RuntimeException( e );  
        }  
    }  
}
```

PROJECT	Step Desc.	Step Status	Resp.	Due	Final	Last Changed By
Billboards						
NJ Turnpike billboard					01/01/2012	
General/Exploratories						
Explore new things for the Webapp	add new feature	working	Ted	05/08	05/23/2013	Ted Petrosky May 07, 2013
Big description goes here General/Exploratory	Start collecting data	begin tomorrow 05-10	Brette	05/08	01/01/2012	Ted Petrosky May 06, 2013
	Due to the pub	In progress	Client	05/09		
	I am trying to add a tome here to show how it will look when the line wraps	part 2	Anne	05/21		
	do lots more work	waiting input	Anne	07/25		