



Re: Struts – Getter method

Blow  
wrote:

Sorry  
to  
post  
the  
code,

First  
of  
all.

.  
.never  
apologize  
for  
posting  
the  
source  
code  
when  
you  
are  
asking  
for  
help  
with  
a  
programming  
problem.

To  
the  
OP:  
We  
love  
that  
you  
posted  
source  
code.  
It  
is  
a  
good  
thing.  
This  
group  
loves

## Re: Struts – Getter method

source  
code,  
as  
a  
rule.

```
<logic:iterate  
name="bookListForm"  
property="books"  
id="book"  
type="com.mycompany.Book">
```

The  
JSP  
Standard  
Tag  
Library  
(JSTL)  
has  
largely  
supplanted  
the  
logic:  
taglib  
from  
Struts.

<c:forEach>,  
etc.  
<<http://java.sun.com/products/jsp/jstl/1.1/docs/tlddocs/index.html>>

You  
don't  
have  
to  
get  
into  
that  
right  
away.  
Learn  
logic:iterate  
and

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c:forEach  
will  
make  
sense,  
in  
a  
different  
but  
similar  
way.

Sun's  
JSTL  
tutorial  
is  
a  
good  
starting  
place,  
when  
you're  
ready..  
<<http://java.sun.com/javaee/5/docs/tutorial/doc/bnakc.html>>

--  
Lew

Hi guys,

Thanks Joe  
and Lew for  
your replies.  
I'm glad I  
did the right  
thing  
posting the  
code then.

I  
implemented  
the change

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that Joe  
suggested, I  
replaced:

```
<logic:iterate  
name="bookListForm"  
property="books"  
id="book">
```

with

```
<logic:iterate  
name="bookListForm"  
property="books"  
id="book"  
type="com.mycompany.Book">
```

but I get the  
following  
error:

Jun 27,  
2008

2:01:21 PM

org.apache.catalina.core.ApplicationDispatcher  
invoke

SEVERE:

Servlet.service()

for servlet

jsp threw

exception

java.lang.ClassCastException:

[Ljava.lang.Object;

at

org.apache.jsp.jsp.bookList\_jsp.\_jspService(bookList\_jsp.java:133)

at

org.apache.jasper.runtime.HttpJspBase.service(HttpJspBase.java:70)

at

javax.servlet.http.HttpServlet.service(HttpServlet.java:803)

at

org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapp

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```
393)  
at  
org.apache.jasper.servlet.JspServlet.serviceJspFile(JspServlet.java:  
320)
```

I'm now  
reading  
about JSTL  
to see what  
I can do in  
terms of  
getting  
this to  
work.

Thanks for  
your help  
and any  
other ideas  
are  
welcome.  
Hope that I  
can get this  
going soon  
since I need  
it for a  
project at  
work.

Sorry I should have caught  
this the first time through  
but I am not as  
familiar with hibernate.  
Now that I'm looking again,  
I don't see  
anyplace  
where you are actually  
constructing any Book  
objects. In your  
BookListAction code you  
have this:

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```
books =  
session.createQuery("select  
id, title, author, available  
from  
Book  
t").list();  
bookListForm.setBooks(books);
```

Now if you look at the javadoc api's for the org.hibernate.Query class you'll find the following explanation for the list() method:

"Return the query results as a List. If the query contains multiple results per row, the results are returned in an instance of Object[]."

So in my best estimate, unless there is some hibernate magic at work behind the scenes here I can't see, you never actually create any com.mycompany.Book objects.

Hi Joe,

Thanks again for the reply. I'm new at this so it's taking me some time to get things going. I appreciate your help.

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I think I understand what you're telling me. I'm putting the result set of the query (objects) in a Collection, but it's not a collection of type Book. There's no connection between the Collection that I defined called books and the actual Book Class.

So maybe I shouldn't have even defined that Collection in the Book Class.

I guess what I need to do is iterate through the result set from the Query, while creating instances of type Book and setting the attributes of each instance accordingly with the corresponding value from the result set (List). As each instance of the Book object is created, I need to load those instances in a Collection. Then I would have a Collection of type Book to go through and write to the jsp page.

Have a nice day and holiday. Hope that you're doing well. I'll try to figure out how to do this and will post again.

Take care,

Ruben

Yes, I think it looks like you have understood me perfectly. I believe what

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you stated is exactly what is causing your problem.

Hi Joe,

Thanks again for the reply. Hope that you're doing well.

I tried several different variation of things to get the code working. So far I haven't succeeded.

Below is the change that I made to the BookListAction.java in order to get the value of the items returned from the Query. I understand that it's a list, but the list (basically rows with data) seems to have an Object in each index. So it's a list of Objects where every Object has the 4 values retrieved for a record in the database.

To make things simple I added a where clause (for id = 1) so that it matches only one row. I'm able to display that the size of books2 is 1, but I can't get to the values somehow.

I'll appreciate your help or any ideas regarding this problem. The new code for the BookListAction.java is shown below. The other files have no changes.

Thanks again,

Ruben

---

BookListAction.java

BookListAction.java

```
package com.mycompany.struts.action;
```

```
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.swing.text.html.HTMLDocument.Iterator;
```

```
import org.apache.struts.action.Action;
import org.apache.struts.action.ActionForm;
import org.apache.struts.action.ActionForward;
import org.apache.struts.action.ActionMapping;
```

```
import com.mycompany.Book;
import com.mycompany.struts.form.BookListForm;
import com.mycompany.hibernate.*;
import org.hibernate.*;
import org.hibernate.criterion.Projections;
```

```
import java.util.*;
```

```
public class BookListAction extends Action {
```

```
    public ActionForward execute(ActionMapping mapping, ActionForm form,
        HttpServletRequest request, HttpServletResponse response) {
```

```
        BookListForm bookListForm = (BookListForm) form;
```

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```
SessionFactory factory = null;
Session session = null;
Collection <Book> books = new ArrayList<Book>();
List <Object> books2 = new ArrayList<Object>();
Object books3 = null;
Book book1 = null;

try {

factory = HibernateUtil.getSessionFactory();

session = (Session) factory.openSession();

// The line below works and I can see the values in
debug mode. I added the
// where clause to limit the resultset, but it works
without it too

books2 = (List <Object>) session.createQuery("select id,
title, author, available from Book where id = 1 ").list();

// The line below prints the total rows returned
from the query. With the
// where clause, it prints the value 1 since only
one row matches that criteria

System.out.println("Query Size = " + books2.size());

// Below are the different things that I tried in
order to get the value from
// books2. Nothing works.
```

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```
Object[] firstResult = (Object[]) books2.get(0);

// int id = ((Integer) firstResult[0]).intValue();
String title = ((String) firstResult[1]).toString();

System.out.println(id);
System.out.println(title);

// Criteria crit = session.createCriteria(Book.class);
// System.out.println("Query Size = " + books2.size());

// for (int i = 0; i < books2.size(); i++) {
// Book book = (Book) books2.getInt(0);
// }

// for (int i = 0; i < books2.size(); i++) {
// books3 = books2.get(i);
// System.out.println(books3);
// }

// for (int i = 0; i < books2.size(); i++) {
// System.out.println(books2);
// book1 = null;
// book1 = (Book) books2.get(i);
// System.out.println(book1.getTitle());
// }

bookListForm.setBooks(books2);

} finally {
session.close();
}
```

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```
return mapping.findForward("showList");  
  
}  
  
}
```

---

Hi Joe,

Thanks for the help.

I got things working with Hibernate. The code is in this link:

[http://groups.google.com.pk/group/comp.lang.java.programmer/browse\\_th...](http://groups.google.com.pk/group/comp.lang.java.programmer/browse_th...)

However, I get some problems when trying to display the result in a jsp. I can...

read more »

Hi Everyone,

I actually got this to work finally. The last problem was solved after I replaced Strut nested tags with plain Struts iterate tags.

The code is in this link:

[http://groups.google.com.pk/group/comp.lang.java.programmer/browse\\_thread/thread/2c31665169c1e5ad/56fa92f8d4](http://groups.google.com.pk/group/comp.lang.java.programmer/browse_thread/thread/2c31665169c1e5ad/56fa92f8d4)

Thanks again to Joe and everyone else for all the help. :)

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