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Ext JS 4 CRUD example

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While writing my [Spring-Hibernate Integration](#) post I realize that we (as a java developer) have so many frameworks available which can make life easy by rapidly developing so many common things using frameworks. This ease of development is not available in java particularly when you considering UI development, we still have to struggle with old, bad looking jsp with combination of css, jquery.

Thanks god we now have so many javascript toolkit, framework which make developers life easy by offering so many ready-to-use widgets. ExtJS is the most advanced among those client side UI frameworks.

Today I am going to demonstrate you 'How you can leverage ExtJS 4 to create CRUD application'. In the next post I will try to use the same JS code with Spring MVC as a backend.

Create a HTML page which include ExtJS library and aur books.js file.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <title>ExtJS CRUD App</title>
6   <link rel="stylesheet" type="text/css"
7     href="http://cdn.sencha.com/ext/gpl/4.2.0/resources/css/ext-all.css">
8   <script type="text/javascript"
9     src="http://cdn.sencha.com/ext/gpl/4.2.0/ext-all.js"></script>
10  <style>
11    .book-add { background-image:url('images/book_add.png');}
12    div#output {margin:100px;}
13  </style>
14  <script type="text/javascript" src="books.js"></script>
15 </head>
16 <body>
17   <div id="output"></div>
18 </body>
19 </html>
```

Here is the ExtJS CRUD code, I have combined it in a single file. You can follow the ExtJS 4 MVC folder structure.

```
1 Ext.onReady(function () {
2   Ext.define('TechZoo.model.Book', {
3     extend: 'Ext.data.Model',
4     fields: [
5       {name: 'title', type: 'string'},
6       {name: 'author', type: 'string'},
7       {name: 'price', type: 'int'},
```

```
8      {name: 'qty', type: 'int'}
9    ]
10  });
11  Ext.define('TechZoo.store.Books', {
12    extend : 'Ext.data.Store',
13    model  : 'TechZoo.model.Book',
14    fields : ['title', 'author', 'price', 'qty'],
15    data   : [
16      { title: 'JDBC, Servlet and JSP',
17        author: 'Santosh Kumar', price: 300, qty : 12000 },
18      { title: 'Head First Java',
19        author: 'Kathy Sierra', price: 550, qty : 2500 },
20      { title: 'Java SCJP Certification',
21        author: 'Khalid Mughal', price: 650, qty : 5500 },
22      { title: 'Spring and Hinernate',
23        author: 'Santosh Kumar', price: 350, qty : 2500 },
24      { title: 'Mastering C++',
25        author: 'K. R. Venugopal', price: 400, qty : 1200 }
26    ]
27  });
28  Ext.define('TechZoo.view.BooksList', {
29    extend: 'Ext.grid.Panel',
30    alias: 'widget.bookslist',
31    title: 'Books List - (ExtJS 4 CRUD example - @ Tousif Khan)',
32    store: 'Books',
33    initComponents: function () {
34      this.tbar = [{
35        text : 'Add Book',
36        action : 'add',
37        iconCls : 'book-add'
38      }];
39      this.columns = [
40        { header: 'Title', dataIndex: 'title', flex: 1 },
41        { header: 'Author', dataIndex: 'author' },
42        { header: 'Price', dataIndex: 'price', width: 60 },
43        { header: 'Quantity', dataIndex: 'qty', width: 80 },
44        { header: 'Action', width: 50,
45          renderer: function (v, m, r) {
46            var id = Ext.id();
47            var max = 15;
48            Ext.defer(function () {
49              Ext.widget('image', {
50                renderTo: id,
51                name: 'delete',
52                src : 'images/book_delete.png',
53                listeners : {
54                  afterrender: function (me) {
55                    me.getEl().on('click', function () {
56                      var grid = Ext.ComponentQuery.query('bookslist')[0];
57                      if (grid) {
58                        var sm = grid.getSelectionModel();
59                        var rs = sm.getSelection();
60                        if (!rs.length) {
61                          Ext.Msg.alert('Info', 'No Book Selected');
62                          return;
63                        }
64                        Ext.Msg.confirm('Remove Book',
65                          'Are you sure you want to delete?',
66                          function (button) {
67                            if (button == 'yes') {
68                              grid.store.remove(rs[0]);
69                            }
70                          }
69    }
```

```
70         });
71     }
72     });
73 }
74 }
75 });
76 }, 50);
77 return Ext.String.format('<div id="{0}"></div>', id);
78 }
79 }
80 ];
81 this.callParent(arguments);
82 }
83 });
84 Ext.define('TechZoo.view.BooksForm', {
85     extend : 'Ext.window.Window',
86     alias : 'widget.booksform',
87     title : 'Add Book',
88     width : 350,
89     layout : 'fit',
90     resizable: false,
91     closeAction: 'hide',
92     modal : true,
93     config : {
94         recordIndex : 0,
95         action : ''
96     },
97     items : [{
98         xtype : 'form',
99         layout: 'anchor',
100         bodyStyle: {
101             background: 'none',
102             padding: '10px',
103             border: '0'
104         },
105         defaults: {
106             xtype : 'textfield',
107             anchor: '100%'
108         },
109         items : [{
110             name : 'title',
111             fieldLabel: 'Book Title'
112         }, {
113             name: 'author',
114             fieldLabel: 'Author Name'
115         }, {
116             name: 'price',
117             fieldLabel: 'Price'
118         }, {
119             name: 'qty',
120             fieldLabel: 'Quantity'
121         }
122     ]],
123     buttons: [{
124         text: 'OK',
125         action: 'add'
126     }, {
127         text : 'Reset',
128         handler : function () {
129             this.up('window').down('form').getForm().reset();
130         }
131     }
132 ]
133 }
```

```
131     }, {
132         text      : 'Cancel',
133         handler: function () {
134             this.up('window').close();
135         }
136     }]
137 });
138 Ext.define('TechZoo.controller.Books', {
139     extend      : 'Ext.app.Controller',
140     stores      : ['Books'],
141     views       : ['BooksList', 'BooksForm'],
142     refs        : [{
143         ref      : 'formWindow',
144         xtype    : 'booksform',
145         selector: 'booksform',
146         autoCreate: true
147     }],
148     init: function () {
149         this.control({
150             'booklist > toolbar > button[action=add]': {
151                 click: this.showAddForm
152             },
153             'booklist': {
154                 itemdblclick: this.onRowdblclick
155             },
156             'booksform button[action=add]': {
157                 click: this.doAddBook
158             }
159         });
160     },
161     onRowdblclick: function(me, record, item, index) {
162         var win = this.getFormWindow();
163         win.setTitle('Edit Book');
164         win.setAction('edit');
165         win.setRecordIndex(index);
166         win.down('form').getForm().setValues(record.getData());
167         win.show();
168     },
169     showAddForm: function () {
170         var win = this.getFormWindow();
171         win.setTitle('Add Book');
172         win.setAction('add');
173         win.down('form').getForm().reset();
174         win.show();
175     },
176     doAddBook: function () {
177         var win = this.getFormWindow();
178         var store = this.getBooksStore();
179         var values = win.down('form').getValues();
180
181         var action = win.getAction();
182         var book = Ext.create('TechZoo.model.Book', values);
183         if(action == 'edit') {
184             store.removeAt(win.getRecordIndex());
185             store.insert(win.getRecordIndex(), book);
186         }
187         else {
188             store.add(book);
189         }
190         win.close();
191     }
192 });
```






```

193 Ext.application({
194     name : 'TechZoo',
195     controllers: ['Books'],
196     launch: function () {
197         Ext.widget('bookslist', {
198             width : 500,
199             height: 300,
200             renderTo: 'output'
201         });
202     }
203 });
204 );
205 });
206
207
208
209
210






```

Output:

Open the HTML file in any browser, the Output will look similar to below. You can click to add new Book record in GRID.

| Books List - (ExtJS 4 CRUD example - @ Tousif Khan) | | | | |
|---|-----------------|-------|----------|---|
| Add Book | | | | |
| Title | Author | Price | Quantity | Action |
| JDBC, Servlet and JSP | Santosh Kumar | 300 | 12000 |  |
| Head First Java | Kathy Sierra | 550 | 2500 |  |
| Java SCJP Certification | Khalid Mughal | 650 | 5500 |  |
| Spring and Hinernate | Santosh Kumar | 350 | 2500 |  |
| Mastering C++ | K. R. Venugopal | 400 | 1200 |  |

Double click to any of the GRID row to edit the record.

| Books List - (ExtJS 4 CRUD example - @ Tousif Khan) | | | | |
|---|-----------------|-------|----------|---|
| Add Book | | | | |
| Title | Author | Price | Quantity | Action |
| JDBC, Servlet and JSP | Santosh Kumar | 300 | 12000 |  |
| Head First Java | Kathy Sierra | 550 | 2500 |  |
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| Spring and Hinernate | Santosh Kumar | 350 | 2500 |  |
| Mastering C++ | K. R. Venugopal | 400 | 1200 |  |

Edit Book

Book Title:

Author Name:

Price:

Quantity:

View Live Demo

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About the Author



Tousif Khan has written 67 posts.

I Love Coding, Analyzing, Designing and doing it the right way. I am obsessed about learn anything new daily and sharing what I have learn each Day. This Blog is journey of my Zeal, going through step by step to the mountain of desire to become prefect.

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