

# Ext Js Getting Started

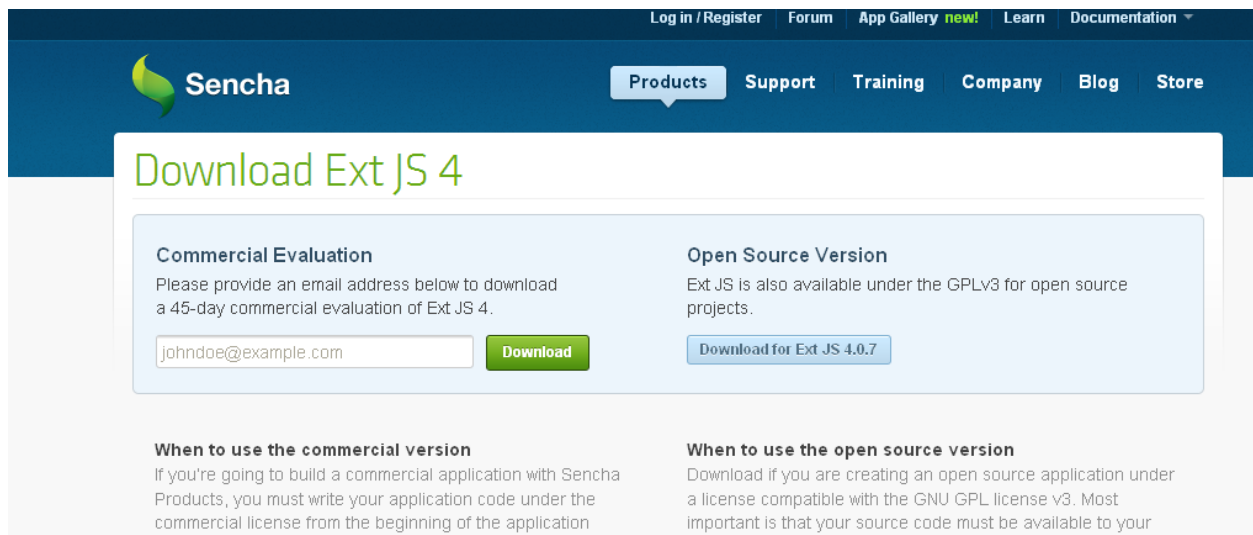
## I. Environment Settings

### 1. Zend Server

We will use zend server to create this application. So, please read zend getting started document first to understand the details.

### 2. Ext Js 4.0 vs Ext Js 3.1

Just simply choose the newer version of Ext Js which is Ext Js 4.0.7. Download the open source version.



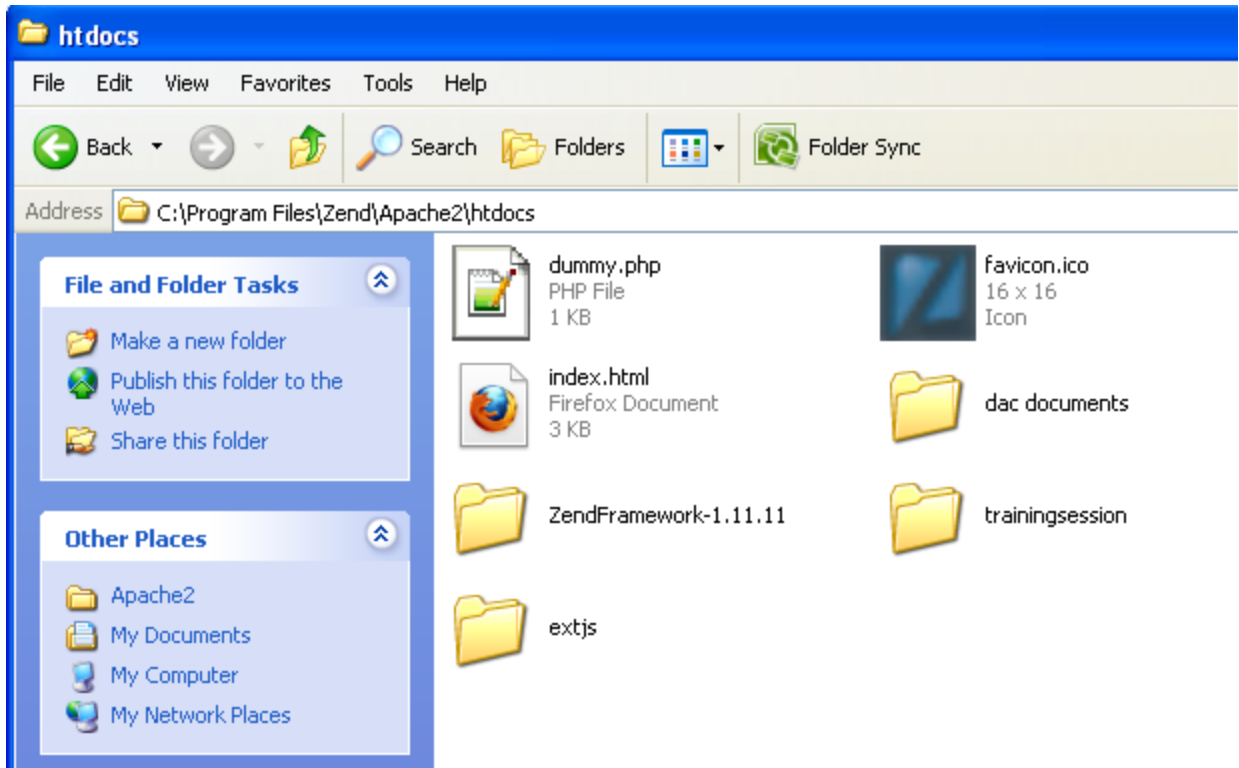
The screenshot shows the Sencha website's download page for Ext JS 4. The page is titled "Download Ext JS 4" and features two main sections: "Commercial Evaluation" and "Open Source Version".

- Commercial Evaluation:** Requires an email address for a 45-day commercial evaluation. A text input field contains "johndoe@example.com" and a green "Download" button is visible.
- Open Source Version:** States that Ext JS is available under the GPLv3 license for open source projects. A blue button labeled "Download for Ext JS 4.0.7" is present.

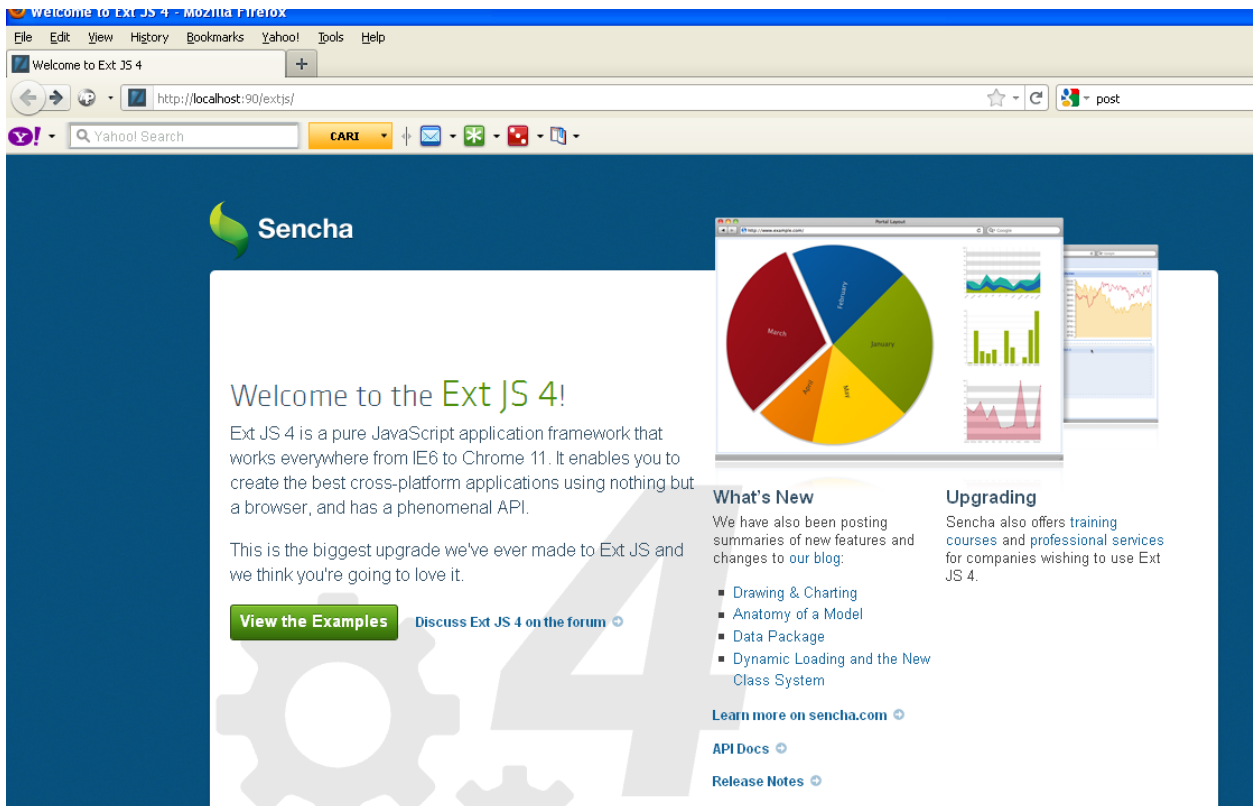
Below these sections, there are two columns of text:

- When to use the commercial version:** If you're going to build a commercial application with Sencha Products, you must write your application code under the commercial license from the beginning of the application.
- When to use the open source version:** Download if you are creating an open source application under a license compatible with the GNU GPL license v3. Most important is that your source code must be available to your

After download the Ext Js, extract it on **C:\Program Files\Zend\Apache2\htdocs**.



Open your browser, and browse for <http://localhost:90/extjs/>.

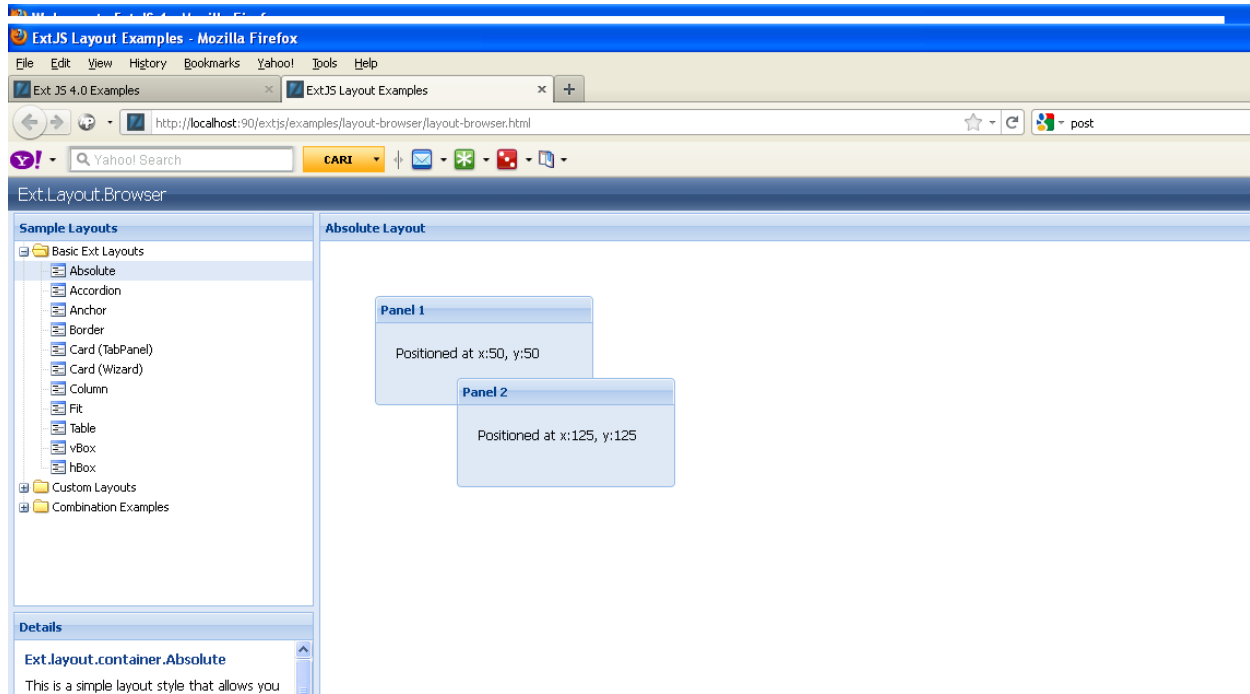


## II. Development

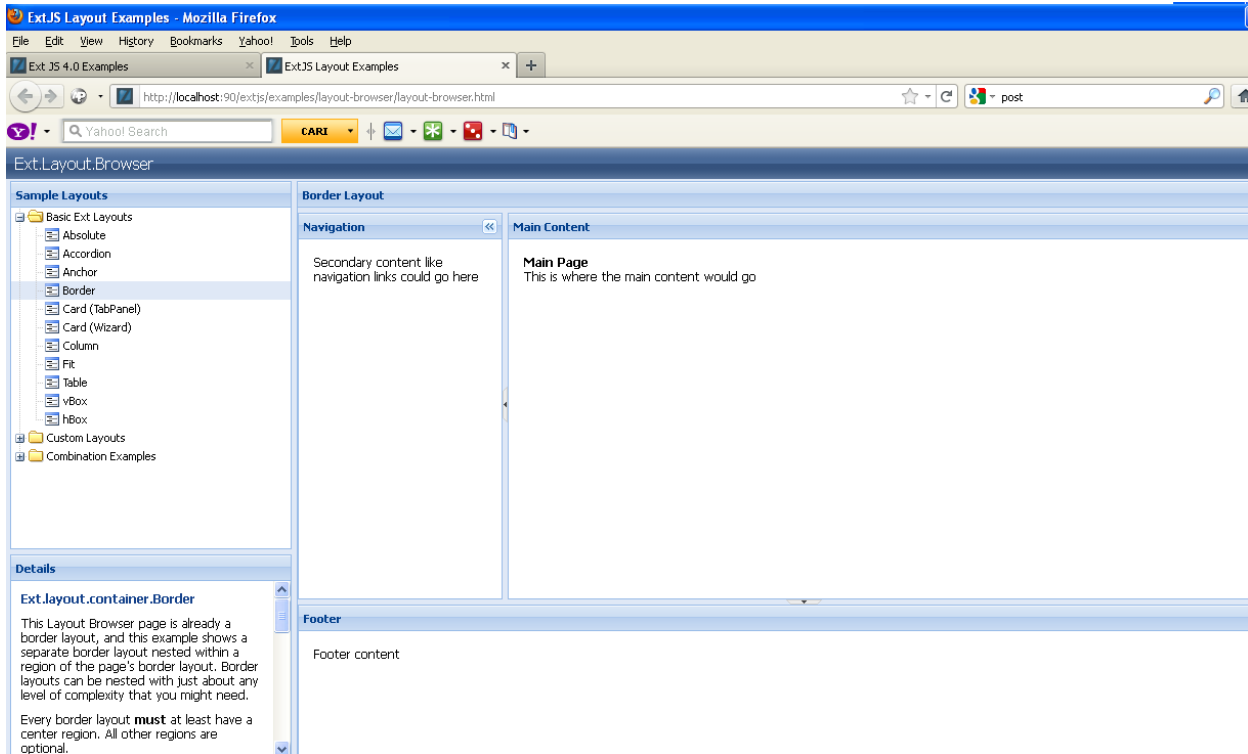
### 1. Create simple layout using Ext Js

#### i. *Open Ext Js Example about layout types*

Browse for <http://localhost:90/extjs/examples/layout-browser/layout-browser.html>.



In this examples which is provided by Ext Js itself, you can see that there are 11 Basic Layout types on Ext Js. Even, Ext JS provided a way to custom you layout. Now, you can click on Border type layout.



The point is in border layout, there are 8 regions (as far as I know). In this example, the south position named “Footer”, center named “Main Content”, west named “Navigation”.

Here is the examples code :

```

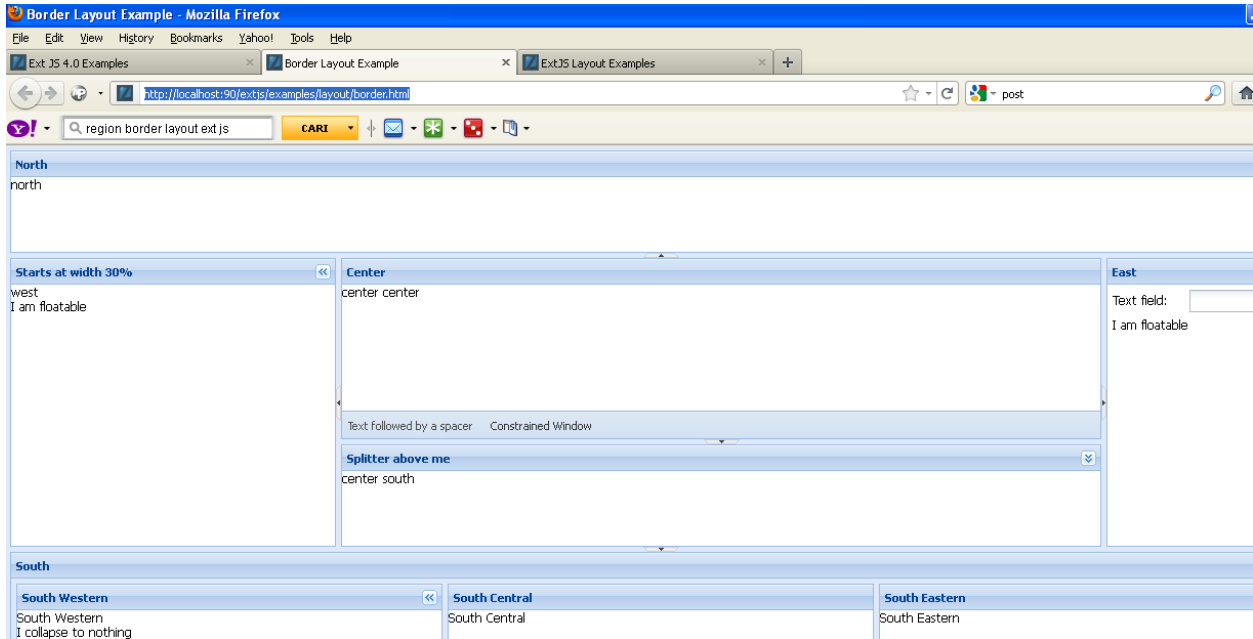
layout: 'border',
defaults: {
    collapsible: true,
    split: true,
    bodyStyle: 'padding:15px'
},
items: [{
    title: 'Footer',
    region: 'south',
    height: 150,
    minSize: 75,
    maxSize: 250,
    cmargins: '5 0 0 0'
}, {
    title: 'Navigation',
    region: 'west',
    margins: '5 0 0 0',
    cmargins: '5 5 0 0',
    width: 175,
    minSize: 100,
    maxSize: 250
}, {
    title: 'Main Content',
    collapsible: false,
    region: 'center',

```

```
    margins: '5 0 0 0'  
  }  
}]
```

### ii. *More specific about Border layout*

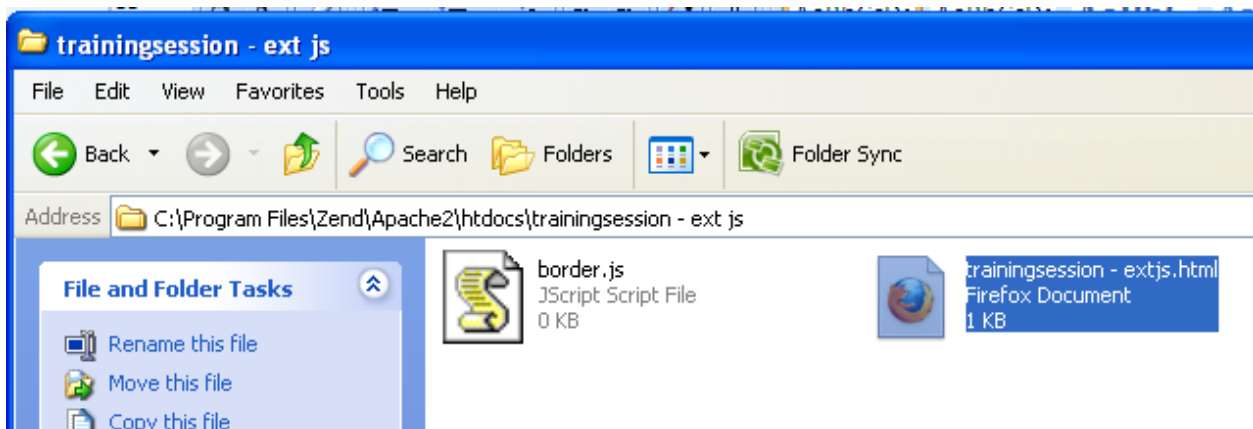
The border layout specific example is provided here  
<http://localhost:90/extjs/examples/layout/border.html>.



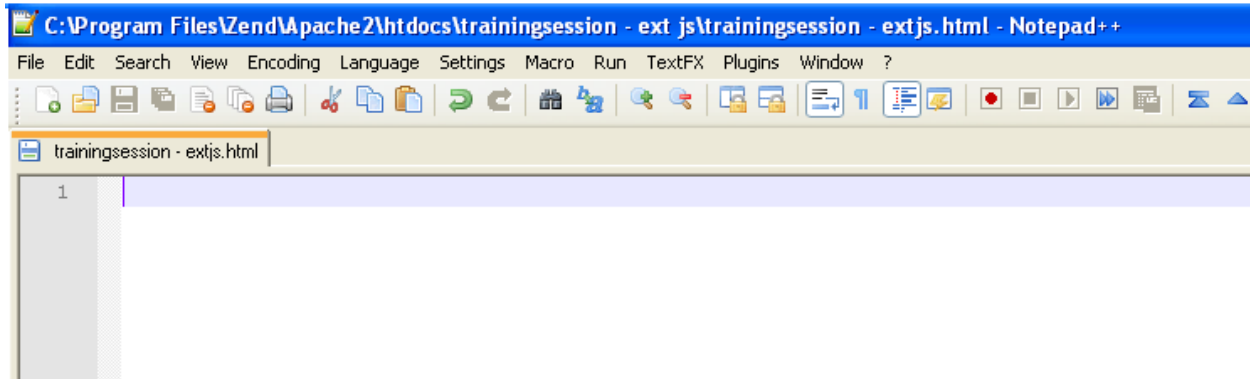
You can see the source code on <http://localhost:90/extjs/examples/layout/border.js>.

### iii. *Create Ext Js View with Border type layout*

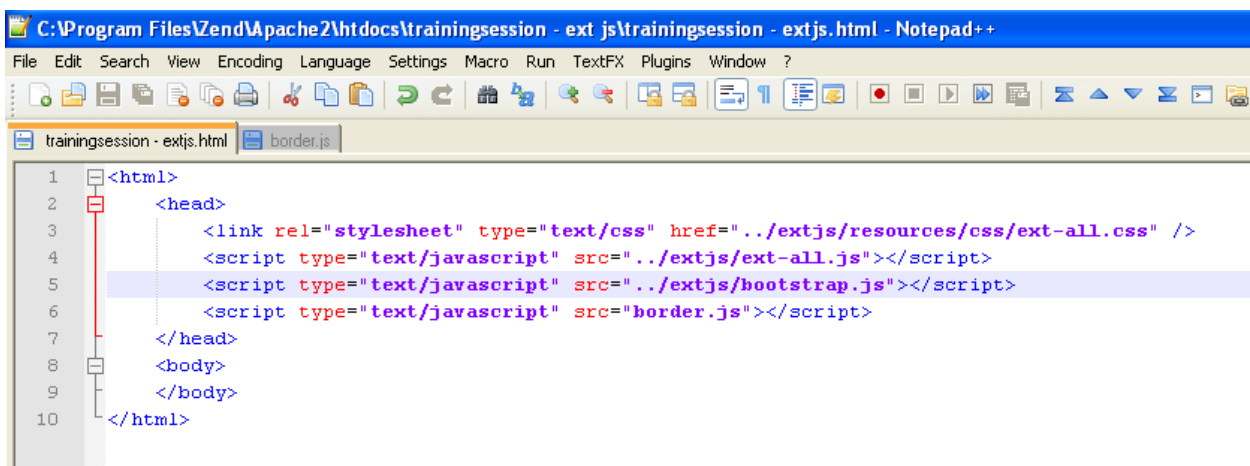
Now, we will create our first view using this border type. Now, you need to create these 2 files just the picture below.



The location is on C:\Program Files\Zend\Apache2\htdocs\trainingsession - ext js. Now Open sharingsession – extjs.html.



Add the following code.



We will use border.js to create ext js view so we need to put it on our html file (which is in this case is trainingsession – extjs.html).

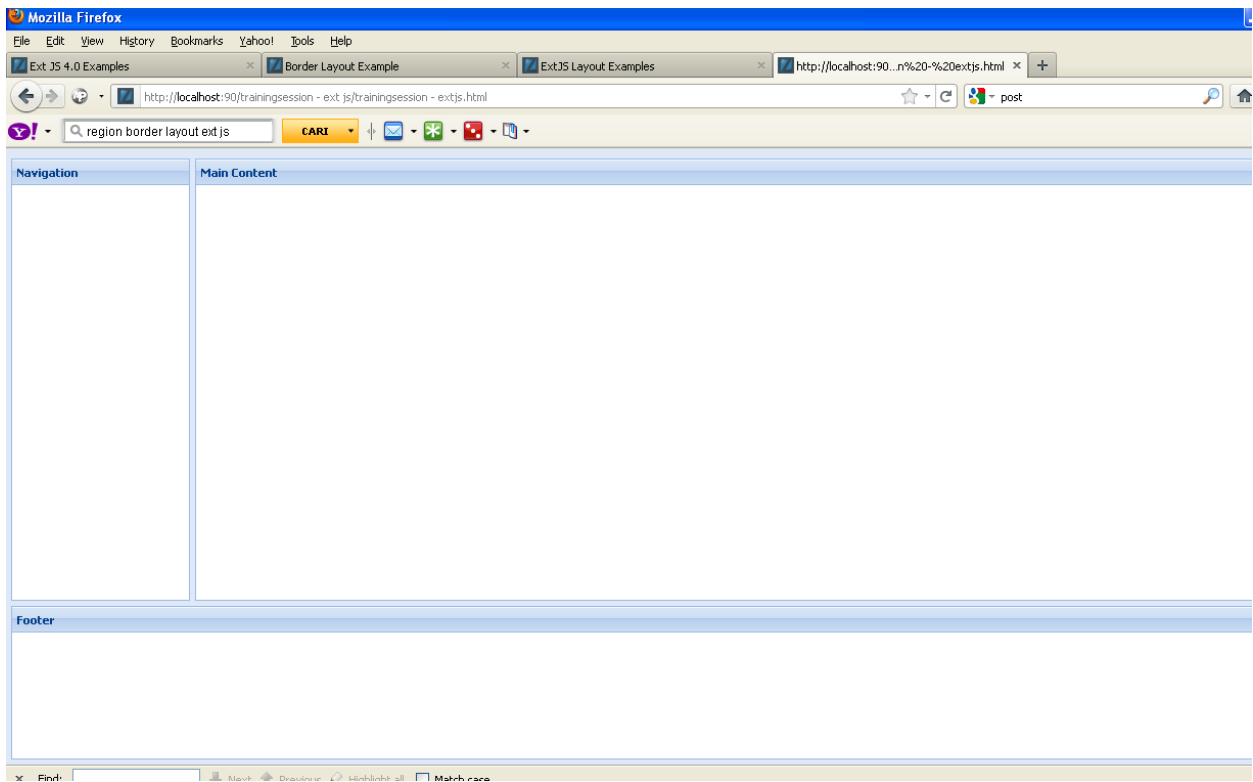
Now, open border.js with your editor.

Add the following code

```
trainingsession - extjs.html border.js
1 Ext.onReady(function() {
2     Ext.create('Ext.Viewport', {
3         layout: {
4             type: 'border',
5             padding: 5
6         },
7         defaults: {
8             split: true
9         },
10        items: [{
11            title: 'Footer',
12            region: 'south',
13            height: 150,
14            minSize: 75,
15            maxSize: 250,
16            cmargins: '5 0 0 0'
17        }, {
18            title: 'Navigation',
19            region: 'west',
20            margins: '5 0 0 0',
21            cmargins: '5 5 0 0',
22            width: 175,
23            minSize: 100,
24            maxSize: 250
25        }, {
26            title: 'Main Content',
27            collapsible: false,
28            region: 'center',
29            margins: '5 0 0 0'
30        }
31    ]
32 });
```

I simply copy paste the code from layout examples above. Now, refresh your browser for url : <http://localhost:90/trainingsession - ext js/trainingsession - extjs.html>. Here is the result.

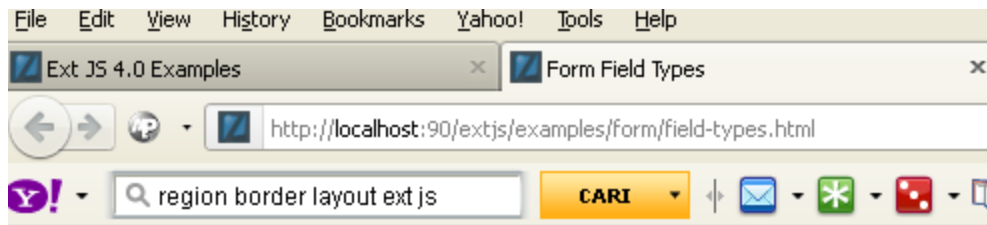
OU



## 2. Add Form

Now, We will add form into Main Content Region. We will add this form into our layout :

<http://localhost:90/extjs/examples/form/field-types.html>.



## Form Field Types

This example shows examples of the various supported form field types.

The js is not minified so it is readable. See [field-types.js](#).

**Form Fields**

Text field:	<input type="text" value="Text field value"/>
Password field:	<input type="password"/>
File upload:	<input type="text"/> <input type="button" value="Browse..."/>
TextArea:	<input type="text" value="Textarea value"/>
Display field:	Display field <span style="color: green;">value</span>
Number field:	<input type="text" value="5"/>
Checkbox:	<input type="checkbox"/> box label
Radio buttons:	<input type="radio"/> radio 1 <input type="radio"/> radio 2
Date Field:	<input type="text"/>
Time Field:	<input type="text"/>

Now, you just click on field-types.js. and copy the following code.

```
Ext.require([
    'Ext.form.*'
]);

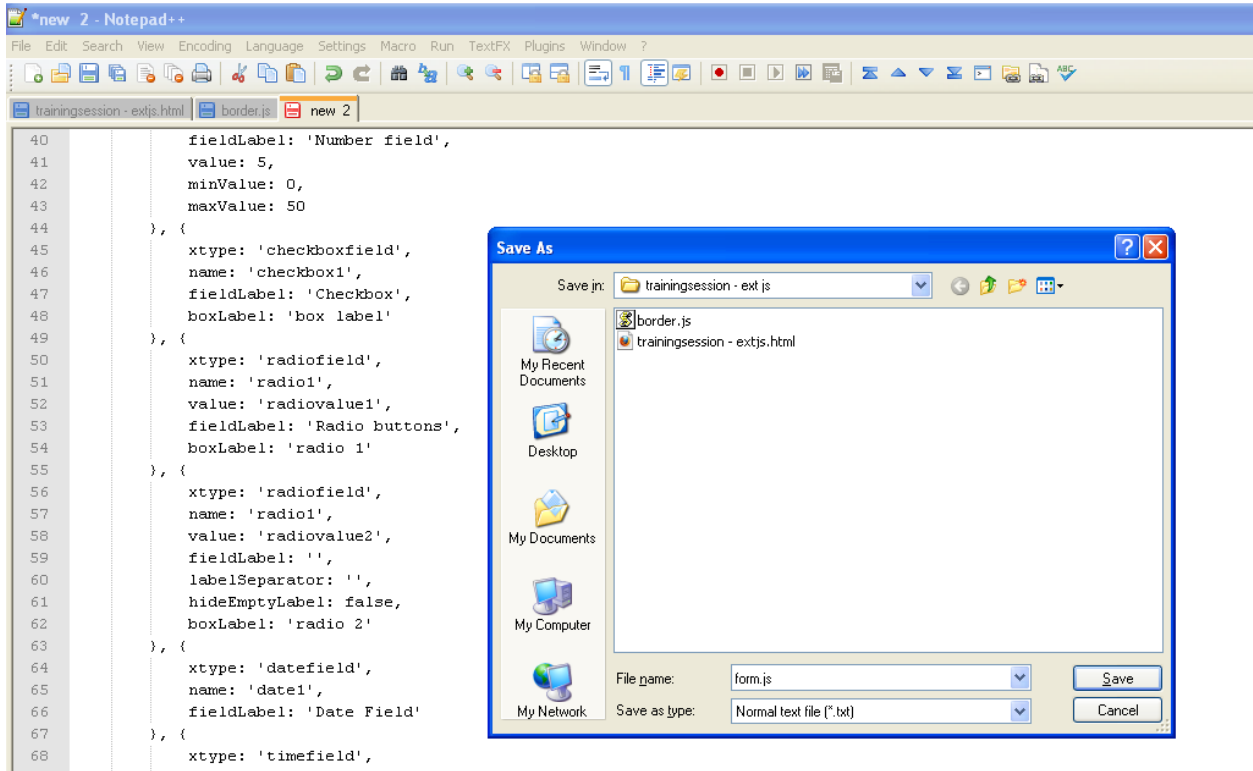
Ext.onReady(function() {

    var formPanel = Ext.create('Ext.form.Panel', {
        frame: true,
        title: 'Form Fields',
        width: 340,
        bodyPadding: 5,

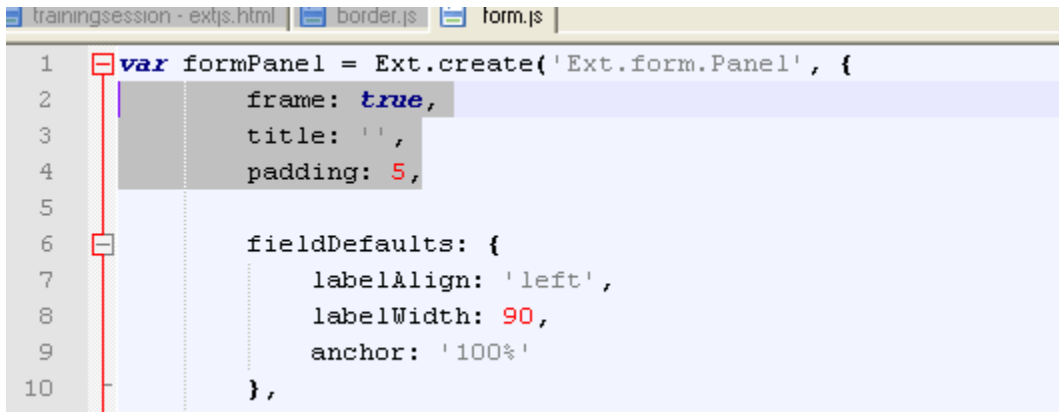
        fieldDefaults: {
            labelAlign: 'left',
            labelWidth: 90,
            anchor: '100%'
        },

        items: [{
            xtype: 'textfield',
            name: 'textfield1',
            fieldLabel: 'Text field',
            value: 'Text field value'
        }, {
            xtype: 'textfield',
            name: 'password1',
            inputType: 'password',
```

Paste that code on form.js. and added this js into our html files. Here is the screen shot.



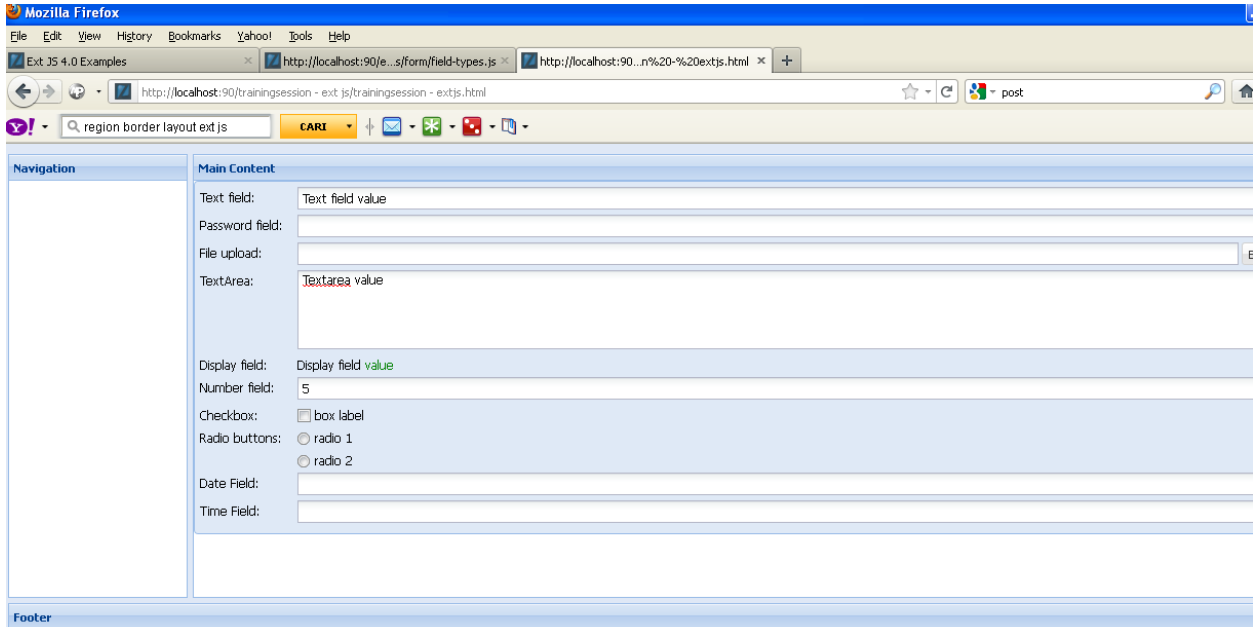
Change the following code .



In trainingsession – ext js.html , add the reference code to form.js just like this.

```
*C:\Program Files\Zend\Apache2\htdocs\trainingsession - ext js\trainingsession - extjs.html - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
trainingsession - extjs.html border.js form.js
1 <html>
2 <head>
3 <link rel="stylesheet" type="text/css" href="../extjs/resources/css/ext-all.css" />
4 <script type="text/javascript" src="../extjs/ext-all.js"></script>
5 <script type="text/javascript" src="../extjs/bootstrap.js"></script>
6 <script type="text/javascript" src="form.js"></script>
7 <script type="text/javascript" src="border.js"></script>
8 </head>
9 <body>
10 </body>
11 </html>
```

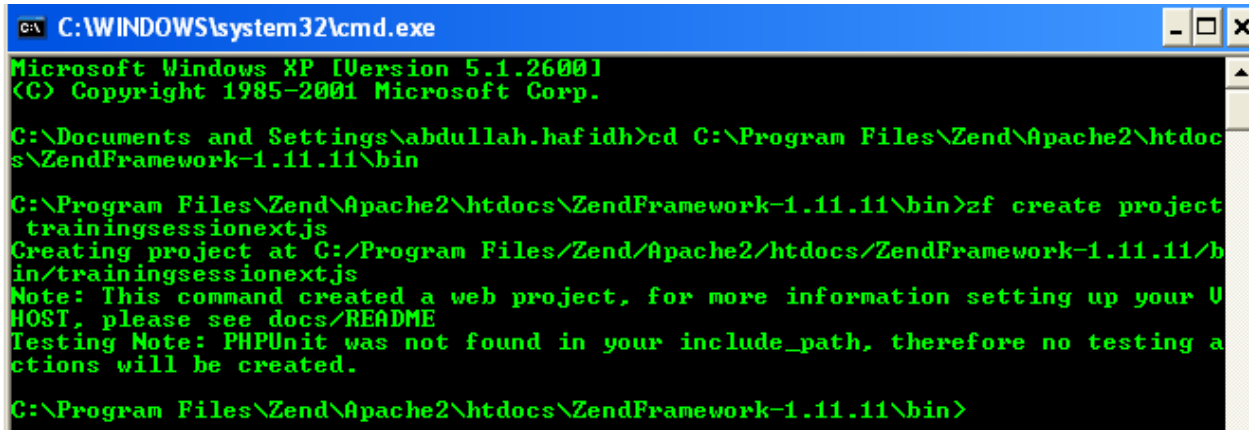
Refresh browser.



### 3. Integrated with Zend Framework

Now, we will integrated this view within zend framework.

i. Create Zend Framework with the name "trainingsessionwithextjs"



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

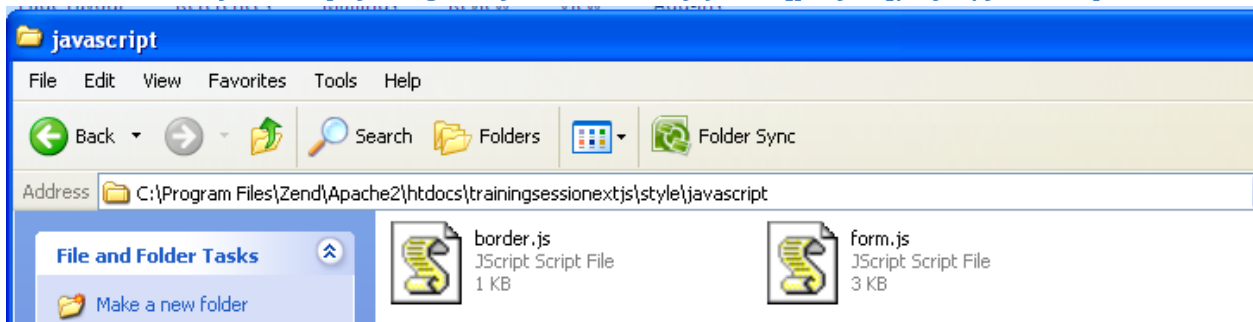
C:\Documents and Settings\abdullah.hafidh>cd C:\Program Files\Zend\Apache2\htdocs\ZendFramework-1.11.11\bin

C:\Program Files\Zend\Apache2\htdocs\ZendFramework-1.11.11\bin>zfc create project trainingsessionextjs
Creating project at C:\Program Files\Zend\Apache2\htdocs\ZendFramework-1.11.11\bin/trainingsessionextjs
Note: This command created a web project, for more information setting up your UHOST, please see docs/README
Testing Note: PHPUnit was not found in your include_path, therefore no testing actions will be created.

C:\Program Files\Zend\Apache2\htdocs\ZendFramework-1.11.11\bin>
```

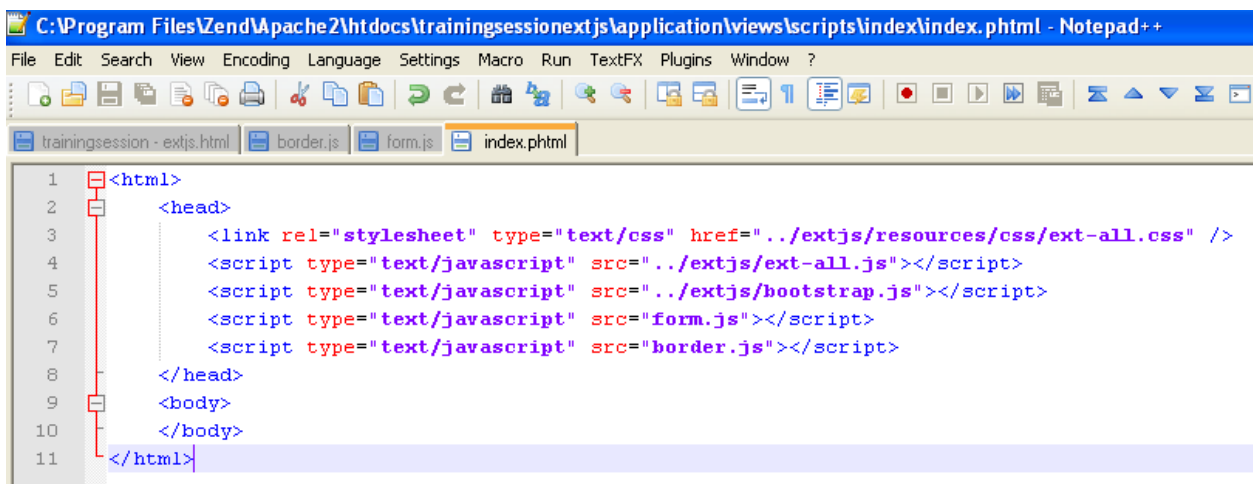
ii. Move these project into folder htdocs.

iii. Move javascript files (form.js and border.js) into [project]/style/javascript



Open index.phtml, /application/views/scripts/index.phtml

And copy and paste code from our html file.



```
C:\Program Files\Zend\Apache2\htdocs\trainingsessionextjs\application\views\scripts\index\index.phtml - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?

1 <html>
2 <head>
3 <link rel="stylesheet" type="text/css" href="../extjs/resources/css/ext-all.css" />
4 <script type="text/javascript" src="../extjs/ext-all.js"></script>
5 <script type="text/javascript" src="../extjs/bootstrap.js"></script>
6 <script type="text/javascript" src="form.js"></script>
7 <script type="text/javascript" src="border.js"></script>
8 </head>
9 <body>
10 </body>
11 </html>
```

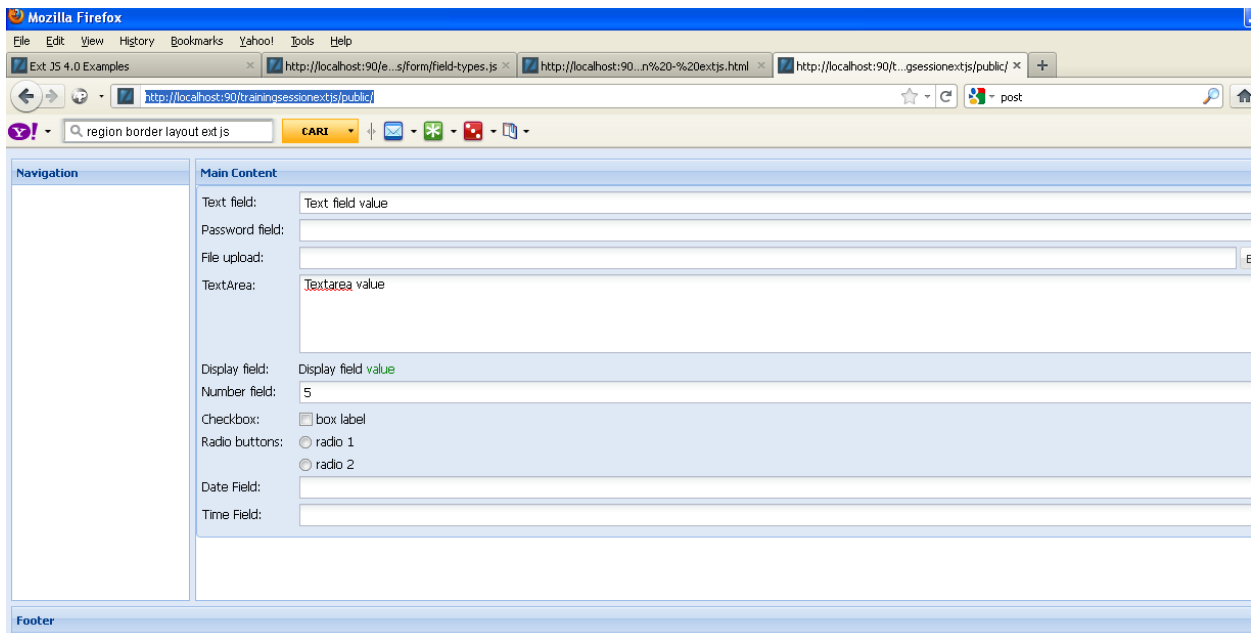
Change the path as shown below.

```

C:\Program Files\Zend\Apache2\htdocs\training\sessionextjs\application\views\scripts\index\index.phtml - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
training\session - extjs.html border.js form.js index.phtml
1 <html>
2 <head>
3 <link rel="stylesheet" type="text/css" href="<? echo $this->baseUrl(); ?>/../extjs/resources/css/ext-all.css" />
4 <script type="text/javascript" src="<? echo $this->baseUrl(); ?>/../extjs/ext-all.js"></script>
5 <script type="text/javascript" src="<? echo $this->baseUrl(); ?>/../extjs/bootstrap.js"></script>
6 <script type="text/javascript" src="<? echo $this->baseUrl(); ?>/../style/javascript/form.js"></script>
7 <script type="text/javascript" src="<? echo $this->baseUrl(); ?>/../style/javascript/border.js"></script>
8 </head>
9 <body>
10 </body>
11 </html>

```

Refresh the browser for url : <http://localhost:90/training\sessionextjs/public/>



**iv. Create action button for post the form into our controller.**

Let see the examples provided by Ext Js, <http://localhost:90/extjs/examples/menu/actions.html>. Now we will add action button (just like register user on zend framework training). Now, open <http://localhost:90/extjs/examples/menu/actions.js> to see the source code. We just need the following code to be added in our project (application).

```
File Edit View History Bookmarks Yahoo! Tools Help
Ext JS 4.0 Examples http://localhost:90/...ples/menu/actions.js http://localhost:90/t...gsessionextjs/public/
http://localhost:90/extjs/examples/menu/actions.js
region border layout ext js
Ext.require([
    'Ext.panel.Panel',
    'Ext.Action',
    'Ext.button.Button',
    'Ext.window.MessageBox'
]);

Ext.onReady(function() {
    var action = Ext.create('Ext.Action', {
        text: 'Action 1',
        iconCls: 'icon-add',
        handler: function() {
            Ext.example.msg('Click', 'You clicked on "Action 1".');
        }
    });
});
```

Now, open form.js again, and paste that code.

```
C:\Program Files\Zend\Apache2\htdocs\training\sessionextjs\style\javascript\form.js - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
form.js index.phtml
1 var action = Ext.create('Ext.Action', {
2     text: 'Action 1',
3     iconCls: 'icon-add',
4     handler: function() {
5         Ext.example.msg('Click', 'You clicked on "Action 1".');
6     }
7 };
8
9
10 var formPanel = Ext.create('Ext.form.Panel', {
11     frame: true.
```

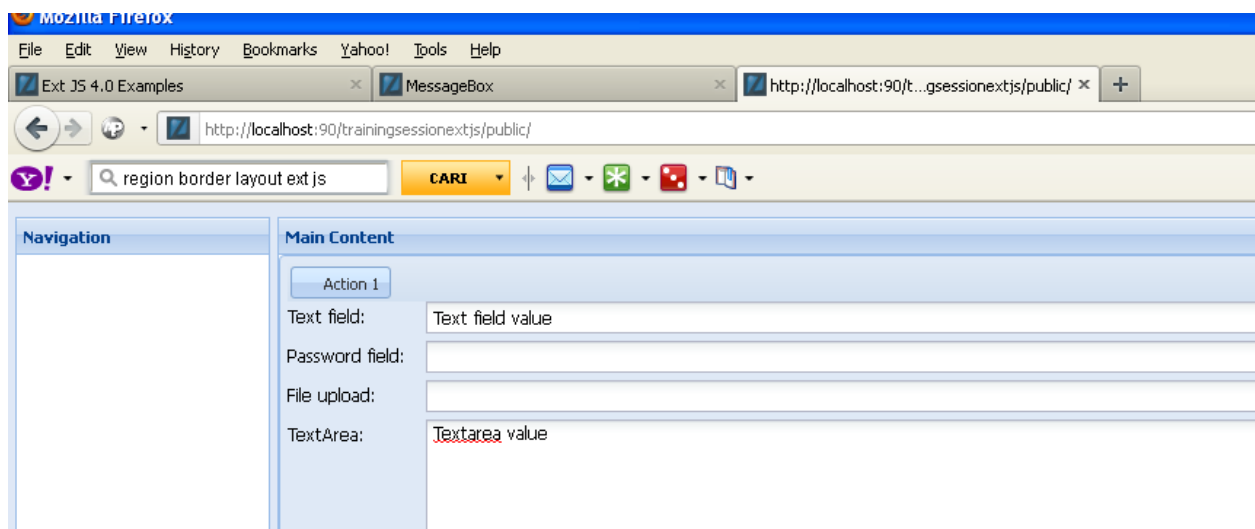
Now, we will add this action button to dockedItems in our forms. Let's see the following picture.

```

C:\Program Files\Zend\Apache2\htdocs\trainingsessionextjs\style\javascript\form.js - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
form.js index.phtml
4 handler: function(){
5     Ext.example.msg('Click', 'You clicked on "Action 1".');
6 }
7 });
8
9
10 var formPanel = Ext.create('Ext.form.Panel', {
11     frame: true,
12     title: '',
13     padding: 5,
14
15     fieldDefaults: {
16         labelAlign: 'left',
17         labelWidth: 90,
18         anchor: '100%'
19     },
20     dockedItems: {
21         itemId: 'toolbar',
22         xtype: 'toolbar',
23         items: [action]
24     },
25     items: [{
26         xtype: 'textfield',
27         name: 'textfield1',
28         fieldLabel: 'Text field',
29         value: 'Text field value'

```

Refresh your browser, it's should be like this.



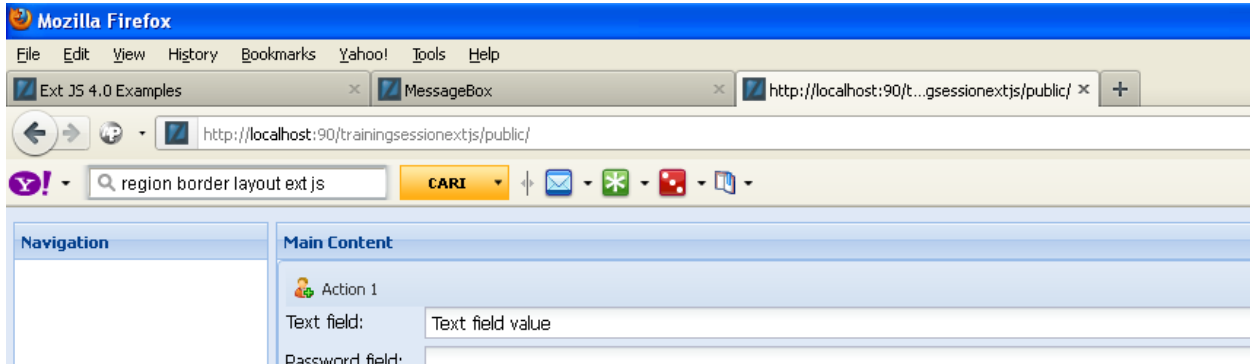
Now, we will add icon images based on icon definition on the script (iconCls: 'icon-add'). Open again index.phtml. and add the following code.

```

C:\Program Files\Zend\Apache2\htdocs\training\session\extjs\application\views\scripts\index\index.phtml - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
form.js index.phtml
1 <html>
2 <head>
3 <link rel="stylesheet" type="text/css" href="<? echo $this->baseUrl(); ?>/../../extjs/resources/css/ext-all.css" />
4 <style>
5     .icon-add {
6         background-image: url("<? echo $this->baseUrl(); ?>/../../extjs/examples/menu/images/add16.gif" );
7     }
8 </style>
9 <script type="text/javascript" src="<? echo $this->baseUrl(); ?>/../../extjs/ext-all.js"></script>
10 <script type="text/javascript" src="<? echo $this->baseUrl(); ?>/../../extjs/bootstrap.js"></script>
11 <script type="text/javascript" src="<? echo $this->baseUrl(); ?>/../style/javascript/form.js"></script>
12 <script type="text/javascript" src="<? echo $this->baseUrl(); ?>/../style/javascript/border.js"></script>
13 </head>
14 <body>
15 </body>
16 </html>

```

Refresh again your browser, see the difference.



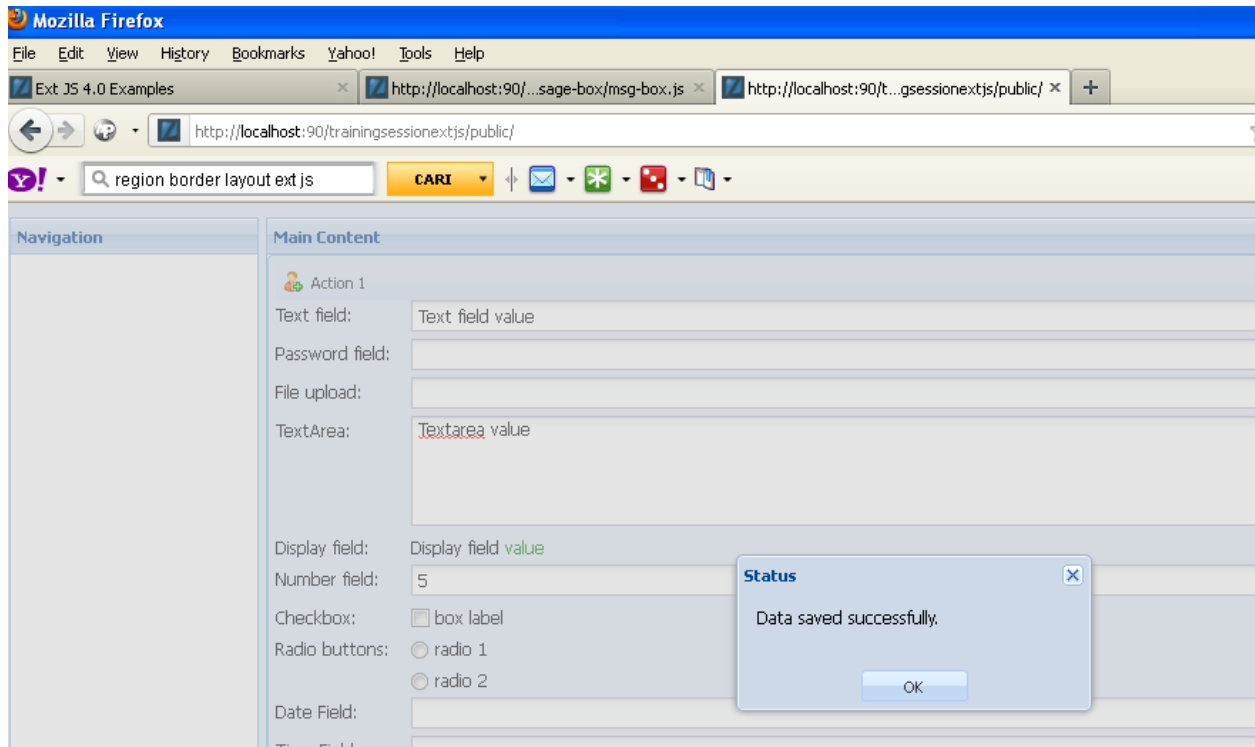
Now, try to click the button, there should be no effect on it, since we didn't put any action there. Now, we'll put action to get the form data and show the notification using MessageBox. First, let's put script for show message box (see the example on <http://localhost:90/extjs/examples/message-box/msg-box.html>). We will use standard alert message dialog from Ext Js.

```

C:\Program Files\Zend\Apache2\htdocs\training\session\extjs\style\javascript\form.js - Notepad++
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
form.js index.phtml
1 var action = Ext.create('Ext.Action', {
2     text: 'Action 1',
3     iconCls: 'icon-add',
4     handler: function(){
5         //standar message box
6         Ext.MessageBox.alert('Status', 'Data saved successfully.');

```

So, when we click on action button, it will show like the following picture



Now, we need to read the form data. In Ext Js, you can use `getForm().getValues()` to get all form data. Here is the example in our case. And, we will use Ext Ajax, too to send the data to submitController.

```

C:\Program Files\Zend\Apache2\htdocs\training-session-extjs\style\javascript\form.js - Notepad++
e Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
form.js index.phtml
1  var action = Ext.create('Ext.Action', {
2      text: 'Action 1',
3      iconCls: 'icon-add',
4      handler: function(){
5          Ext.Ajax.request({
6              url: "/training-session-extjs/public/Submit",
7              params: formPanel.getForm().getValues(),
8              method: 'GET',
9              success: function(response, opts) {
10                 //standar message box
11                 Ext.MessageBox.alert('Status', 'Data saved successfully.');

```

Now, copy paste SubmitController, the models that we already created in Zend Framework training session before and do a little modification on it. Here is the following code.

```
C:\Program Files\Zend\Apache2\htdocs\training\sessionnextjs\application\controllers\SubmitController.php - Notepad+
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ?
form.js index.phtml SubmitController.php
1 <?php
2 class SubmitController extends Zend_Controller_Action {
3
4     public function init(){
5
6     }
7
8     public function indexAction(){
9         //override default renderer path
10        $this->getHelper("viewRenderer")->setNoRender();
11        $view = new Zend_View();
12        $view->setScriptPath(APPLICATION_PATH."/views/scripts");
13
14        //insert data into database
15        $name = $this->_request->getQuery("name");
16        $address = $this->_request->getQuery("address");
17
18        echo $name;
19
20        //create object, including creating connection into database
21        $register = new Application_Model_Register();
22        //call the createUser function
23        $register->createUser($name, $address);
24
25        //added variable into view
26        //$view->notification = "Data Successfully Saved on Database";
27
28        //render specific file
29        //echo $view->render("Index/index.phtml");
30
31        return "Data Successfully Saved on Database";
32    }
33 }
```

Now, change the name attribute on our form to match our submitcontroller. Here is what I mean.

```
C:\Program Files\Zend\Apache2\htdocs\training\sessionextjs\style\javascrip
File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Win
form.js index.phtml SubmitController.php
28     labelAlign: 'left',
29     labelWidth: 90,
30     anchor: '100%'
31 },
32 dockedItems: {
33     itemId: 'toolbar',
34     xtype: 'toolbar',
35     items: [action]
36 },
37 items: [{
38     xtype: 'textfield',
39     name: 'name',
40     fieldLabel: 'Text field',
41     value: 'Text field value'
42 }, {
43     xtype: 'textfield',
44     name: 'password1',
45     inputType: 'password',
46     fieldLabel: 'Password field'
47 }, {
48     xtype: 'filefield',
49     name: 'file1',
50     fieldLabel: 'File upload'
51 }, {
52     xtype: 'textareafield',
53     name: 'address',
54     fieldLabel: 'TextArea',
55     value: 'Textarea value'
```

Refresh, and click on button action.

localhost / localhost / training / users | phpMyAdmin 3.4.5 - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

Ext JS 4.0 Examples http://localhost:90/t...blic/index.php/index Manual:Core:Ext.Ajax - Sencha - Learn (... localhost / localhost / training /

http://localhost/phpmyadmin/index.php?db=training&token=e63967b9692e750dd0f2bf35bdb9957#PMAURL:db=training&table=users&target=sql.php

url: "/training/sessionextjs/public/f

**phpMyAdmin**

training

users

Create table

localhost ▶ training ▶ users

Browse Structure SQL Search Insert Export Import

Showing rows 0 - 1 (~2 total), Query took 0.0005 sec

```

SELECT *
FROM `users`
LIMIT 0, 30

```

Profiling [Link]

Show : 30 row(s) starting from row # 0 in horizontal mode

+ Options

	name	address
<input type="checkbox"/> Edit <input type="checkbox"/> Inline Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Hafidh	Jalan Melati No 3
<input type="checkbox"/> Edit <input type="checkbox"/> Inline Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Text field value	Textarea value