

Ext-JS

Presentation on:

A JavaScript MVC Framework

Presentation By: Piyush Sudip Patel

What is ExtJS?

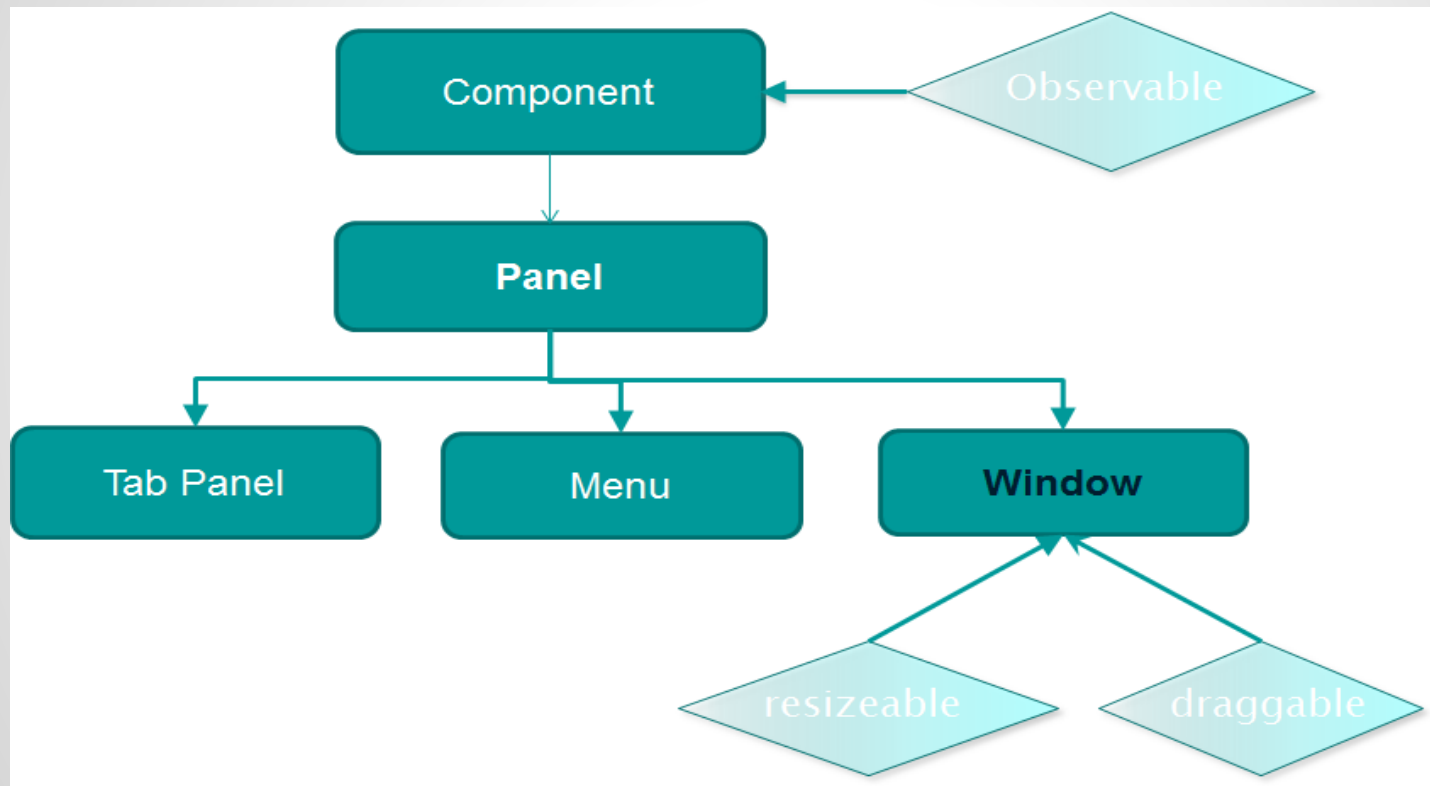
It's a MVC Framework:

- Model-View-Controller
- Rich inbuilt Javascript functionalities
- CSS Animator

Why to use ExtJS?

- It has Easy client-side data modelling
- Very simple to use UI widgets
- Fast paced development
- It is Robust

Layout of Ext-Js



MVC - Server side

- Simple models and classes that instantiate a model
- Models should be transparent to the controller based on the Raw data format.
- Usually a Map is present to facilitate how the model instantiates data

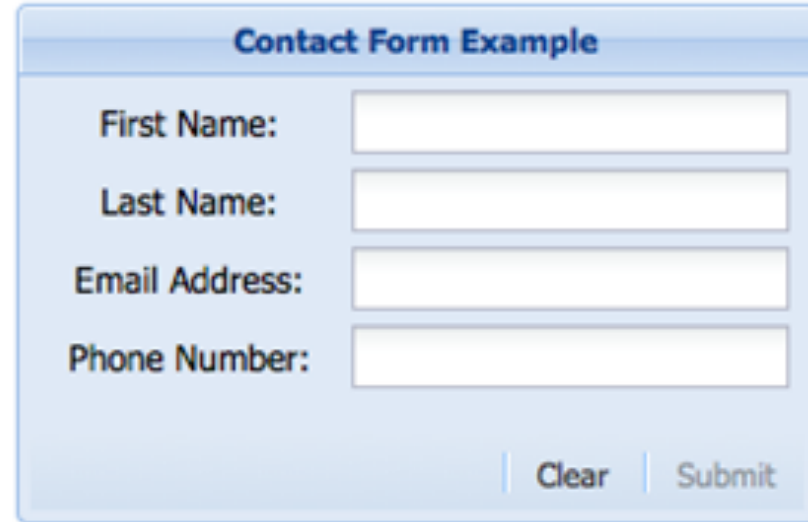
Difference: Client Side JS vs ExtJS

- We keep coming back to MVC.
- Little usage of Server:
 - Allows powerful client machines to do most of processing
 - Robust even with large data

Example Contact form:

JS being Functional Lang.

- Easy control logic
- a go-go with OOPs



The image shows a web form titled "Contact Form Example". It contains four input fields: "First Name:", "Last Name:", "Email Address:", and "Phone Number:". At the bottom right, there are two buttons: "Clear" and "Submit".

Contact Form Example	
First Name:	<input type="text"/>
Last Name:	<input type="text"/>
Email Address:	<input type="text"/>
Phone Number:	<input type="text"/>
<div>Clear Submit</div>	

Code: How is looks like?

```
//create record and submit to store
function submitButtonHandler(){

    //first get the form values
    var vals = form.getForm().getValues();

    //now create a record
    var rec = Ext.ModelMgr.create(vals, 'Contacts');

    //insert it at the beginning
    contactStore.insert(0, rec);

    //clear the form
    form.getForm().reset();
}
```


It works with JSON:

JSON> JavaScript Object Notation.

```
{
  "glossary": {
    "title": "example glossary",
    "GlossDiv": {
      "title": "S",
      "GlossList": {
        "GlossEntry": {
          "ID": "SGML",
          "SortAs": "SGML",
          "GlossTerm": "Standard Generalized Markup Language",
          "Acronym": "SGML",
          "Abbrev": "ISO 8879:1986",
          "GlossDef": {
            "para": "A meta-markup language, used to create markup languages such as DocBook.",
            "GlossSeeAlso": ["GML", "XML"]
          },
          "GlossSee": "markup"
        }
      }
    }
  }
}
```

Some other usage: Source: Sencha.com

➤ Dom Manipulation

- CSS selector queries
- component rendering
- templates

➤ Event Management

- custom events
- remote functions

➤ Forms

➤ Animation

➤ Keyboard Support

➤ Client side MVC

➤ Other Components

- Trees
- Combo boxes
- Progress Indicators
- Dialogs
- Menus
- etc.

➤ Class loader

➤ Theming

Thank you!

Questions?