PrimeFaces Markus Veijola 2013

Introduction

- PrimeFaces is an open source JSF component suite with various extensions.
 - Rich set of UI components (Accordion, charts etc...)
 - Built-in Ajax based on standard JSF 2.0 Ajax APIs.
 - Lightweight, one jar, zero-configuration and no required dependencies.
 - Mobile UI kit to create mobile web applications.
 - Skinning Framework with 35+ built-in themes

Introduction

- PrimeFaces is currently the most popular
 JavaServer Faces component suite and
 many of the widgets are powered by jQuery
 UI.
- You can find prime faces tag library documentation from here
 - http://www.primefaces.org/docs/vdl/4.0/
- Icons and other build in themes can be found from here Themes

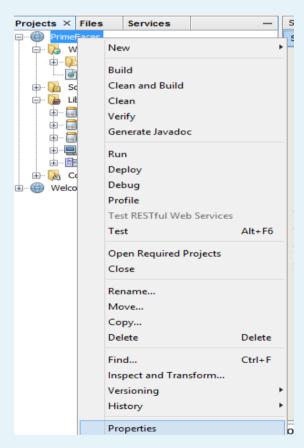
 Download primefaces zip from here: http://primefaces.org/downloads.html

Community Downloads			
Version	Binary	Source	Bundle
4.0	primefaces-4.0.jar	primefaces-4.0-sources.jar	primefaces-4.0.zip
3.5	primefaces-3.5.jar	primefaces-3.5-sources.jar	primefaces-3.5.zip
3.4.2	primefaces-3.4.2.jar	primefaces-3.4.2-sources.jar	primeraces 3.4.z.zip
3.4.1	primefaces-3.4.1.jar	primefaces-3.4.1-sources.jar	primefaces-3.4.1.zip
3.4	primefaces-3.4.iar	primefaces-3.4-sources.iar	primefaces-3.4.zip

- Unzip the .zip file from downloads folder (you can unzip it anywhere you want as long as you remember the location).
- Open NetBeans IDE
- Create a JavaEE Web Project with JSF framework included.

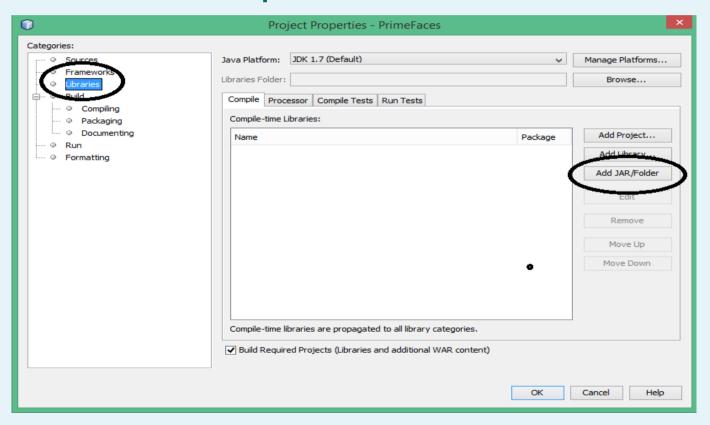
Now right click over you project and select

properties...



Select Libraries and press Add JAR/Folders

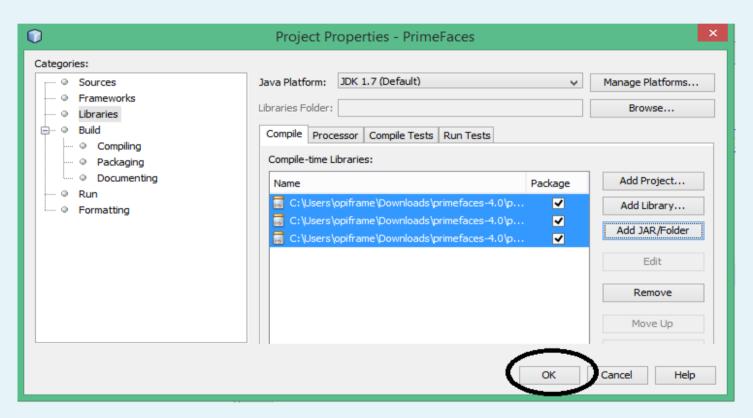
button



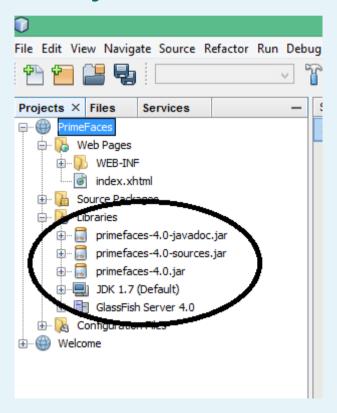
 Now browse to the folder where you unzipped the primefaces.zip file. Select all the .jar files and press Open button.



In the next panel just press Ok....



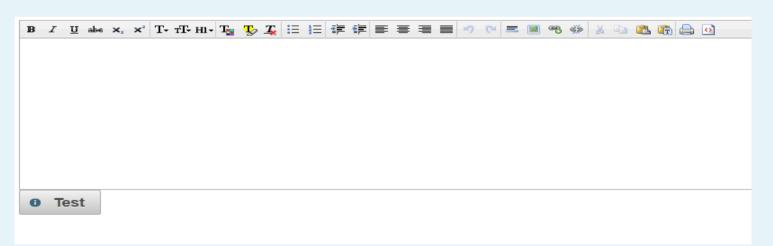
 Make sure that the libraries are visible in project tree library folder...



Using Prime Face Components

 Append the prime faces namespace in your .xhtml file

Example



Component Suite

Component Suite

- PrimeFaces library offres you 459 different components you can use to build your application user interface.
- It includes for example: Calendar, Charts, DataTable, Caroucel which you can use to build nice and fluid UIs.

Few Examples:Caroucel

First the model for our app...

```
public class Products {
    String productName;
    String productPrice;
    String producer;
    //Getters and Setters....
}
```

Few Examples:Caroucel

The managed bean

```
@Named(value = "productBean")
@SessionScoped
public class ProductBean implements Serializable {
    private List<Products> products;

public ProductBean() {
    products = new ArrayList<>();
    products.add(new Products("Tee","4,95","Tee"));
    products.add(new Products("Coffee","6,90","Coffee"));
    products.add(new Products("Beer","3,50","Beer"));
}
//Getters and Setters
}
```

Few Examples:Caroucel

 The UI code.., (for complete example see project PrimeFaces from example folder)



Calendar

 Value of the calendar should be a java.util.Date!!! The DateBean code

```
@Named(value = "dateBean")
@SessionScoped
public class DateBean implements Serializable {
    private Date date;
    public DateBean() {
        date = new Date();
    }
    public Date getDate() {
        return date;
    }
    public void setDate(Date date) {
        this.date = date;
    }
}
```

Calendar

• The UI...



Calendar

 For complete example see PrimeCalendar project from examples folder.

- AjaxBehavior is an extension to standard f:ajax.
- It is very easy to use...
- AjaxBehavior is attached to the component to ajaxify.
- See the next example..

The managed bean....

```
@Named(value = "messageBean")
@SessionScoped
public class MessageBean implements Serializable {
    String message;
    public MessageBean() {
   public String getMessage() {
        return message;
   public void setMessage(String message) {
        this.message = message;
```

The UI...

• The previous example works so that, each time the input changes (lost focus), an ajax request is sent to the server. When the response is received output text with id "out" is updated with value of the input.

AjaxBehaviour and Listeners

 In case you need to execute a method on a backing bean, define a listener

```
@Named(value = "messageBean")
@SessionScoped
public class MessageBean implements Serializable {
    String message;
    int counter = 0;

    public void increment() {
        counter++;
    }

    public int getCounter() {
        return counter;
    }
```

AjaxBehaviour and Events

- Default client side events are defined by components that support client behaviors, for input components it is onchange and for command components it is onclick.
- In order to override the dom event to trigger the ajax request use event option. In following example, ajax request is triggered when key is up on input field.

AjaxBehaviour and Events

Finally

 I Appended an great book of PrimeFaces in dropbox. You can find it in Extras folder.