- JavaServer Faces technology offers a basic set of standard, reusable UI components that enable quick and easy construction of user interfaces for web applications.
- But often an application requires a component that has additional functionality or requires acompletely new component.
- JavaServer Faces technology allows extension of standard components to enhance their functionality or to create custom components.

- JavaServer Faces technology provides the ability to create custom components by extending the UIComponentBase class, the base class for all standard UI components.
- A custom component can be used anywhere an ordinary component can be used, such as within a composite component.

 Step1: Create class extending UIComponentBase

```
//Use this annotation to register your custom component
//If this is not present you need to register this component in faces-config.xml
//file
@FacesComponent ("com.opiframe.custom")
public class MarqueeComponent extends UIComponentBase{
    public static final String COMPONENT TYPE = "com.opiframe.custom";
    String marqueeText = null;
    @Override
     * This function will be called when your custom component is about to be
     * rendered
    public void encodeBegin (FacesContext context) throws IOException {
        ResponseWriter writer = context.getResponseWriter();
        writer.startElement("marquee", this);
        writer.write(getMargueeText());
        writer.endElement("marquee");
    @Override
    public String getFamily() {
        return COMPONENT TYPE;
    public String getMarqueeText() {
        return marqueeText;
    public void setMarqueeText(String marqueeText) {
        this.marqueeText = marqueeText;
```

- Define a tag library for your component
  - Create an .xml file under WEB-INF folder
  - You can name the file as you like. In the example it is named marquee-taglib.xml
  - Append next content to file

 Expose your tag library by defining it to web.xml file

Then use your component...