

JSF 2

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Plan

- Sécuriser une méthode
- Sécuriser une page - Filter
- Validator
- Custom validator
- Standard Converter (implicit and explicit)
- Custom converter
- JSF lifecycle

Sécuriser une méthode

Faire un logout, aller directement sur <http://localhost:18080/imputation-web/pages/admin/welcome.jsf>
Ajouter un employé ⇒ **bug** !

```
@ManagedProperty(value = "#{loginBean}")
LoginBean loginBean;

public String addEmploye(){
    if(loginBean == null || !loginBean.isLoggedIn()){
        return "/login?faces-redirect=true";
    }

    employeService.ajouterEmploye(new Employe(nom, prenom,
        email, password, isActif, selectedRole));

    return "null";
}
```

Sécuriser une page - Filter

```
@WebFilter("/pages/admin/*")
public class LoginFilter implements Filter {

    @Override
    public void doFilter(ServletRequest request, ServletResponse response, FilterChain chain)
        throws IOException, ServletException {
        System.out.println(" url = " + ((HttpServletRequest) request).getRequestURL());

        HttpServletRequest servletRequest = (HttpServletRequest) request;
        HttpServletResponse servletResponse = (HttpServletResponse) response;

        LoginBean loginBean = (LoginBean) servletRequest.getSession().getAttribute("loginBean");

        if( (loginBean != null && loginBean.isLoggedIn()) ||
            servletRequest.getRequestURL().toString().contains("login.jsf")){

            chain.doFilter(servletRequest, servletResponse);

        } else {
            servletResponse.sendRedirect(servletRequest.getContextPath() + "/login.jsf");
        }
    }
}
```

Validator

```
<h:message for="validateSalaire" style="color:green" />  
<h:inputText id="validateSalaire"  
  value="#{contratBean.salaire}"  
  required="true"  
  requiredMessage="Le contrat doit spécifier le salaire"  
  validatorMessage="Le salaire doit etre compris entre 350 et 3500">  
  <f:validateDoubleRange minimum="350" maximum="3500" for="validateSalaire"/>  
</h:inputText>
```

| | |
|--|------------|
| Employe | walid ▼ |
| Date debut | 25-04-2017 |
| Salaire | 0 |
| Type contrat | CDI |
| <input type="button" value="Ajouter contrat"/> | |

Le salaire doit etre compris entre 350 et 3500

| | |
|--|------------|
| Employe | walid ▼ |
| Date debut | 25-04-2017 |
| Salaire | |
| Type contrat | CDI |
| <input type="button" value="Ajouter contrat"/> | |

Le contrat doit spécifier le salaire

Validator

```
<h:message for="validationEmail" style="color:green" />
```

Le message d'erreur généré par l'inputText va être affiché dans le <h:message/>.

```
<h:inputText id="validationEmail"
  value="#{employeBean.email}"
  required="true"
  requiredMessage="le champs email est obligatoire">
  <f:validateRegex pattern=".+\\@.+\\.\\.+" />
</h:inputText>
```

| | |
|---|---|
| login (email) | <input type="text" value="aaa"/> |
| password | <input type="password"/> |
| nom | <input type="text"/> |
| Prenom | <input type="text"/> |
| Actif / Inactif | <input type="checkbox"/> |
| Role | <input type="text" value="Selectionner le role"/> |
| <input type="button" value="Ajouter employe"/> <input type="button" value="Mettre a jour employe"/> | |

Cette chaine n'est pas conforme à l'expression régulière
".+\\@.+\\.\\.+"

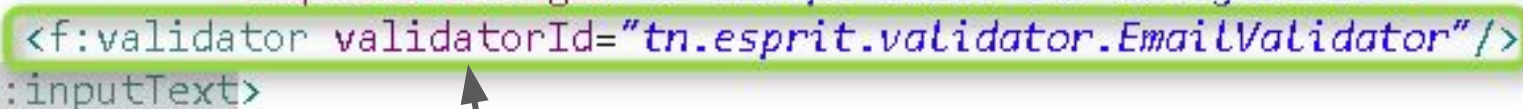
| | |
|---|---|
| login (email) | <input type="text"/> |
| password | <input type="password"/> |
| nom | <input type="text"/> |
| Prenom | <input type="text"/> |
| Actif / Inactif | <input type="checkbox"/> |
| Role | <input type="text" value="Selectionner le role"/> |
| <input type="button" value="Ajouter employe"/> <input type="button" value="Mettre a jour employe"/> | |

Discordance du modèle d'expression régulière «.+\\@.+\\.\\.+».

le champs email est obligatoire

Custom validator

```
<h:inputText id="validationEmail"
    value="#{employeeBean.email}"
    required="true"
    requiredMessage="le champs email est obligatoire">
    <f:validator validatorId="tn.esprit.validator.EmailValidator"/>
</h:inputText>
```



```
@FacesValidator("tn.esprit.validator.EmailValidator")
public class EmailValidator implements Validator {

    private static final String EMAIL_PATTERN = ".+@.+\\.\\.+.+";

    @Override
    public void validate(FacesContext context, UIComponent component,
        Object value) {
        Pattern pattern = Pattern.compile(EMAIL_PATTERN);
        Matcher matcher = pattern.matcher(value.toString());
        if(!matcher.matches()){
            FacesMessage msg =
                new FacesMessage("Invalid E-mail format.");
            msg.setSeverity(FacesMessage.SEVERITY_ERROR);
            throw new ValidatorException(msg);
        }
    }
}
```

Standard Converter

```
<h:inputText id="validateSalaire"  
             value="#{contratBean.salaire}"           private Float salaire;
```

Implicit converter : FloatConverter – For Conversion between String and java.lang.Float

```
<h:inputText id="date" value="#{contratBean.date}">  
    <f:convertDateTime pattern="#{data.formatDate}" />  
</h:inputText>
```

Explicit converter : DateTimeConverter – For Conversion between String and java.util.Date

Standard Converters

- **BigDecimalConverter** – For Conversion between String and `java.math.BigDecimal`
- **BigIntegerConverter** – For Conversion between String and `java.math.BigInteger`
- **BooleanConverter** – For Conversion between String and `java.lang.Boolean`
- **ByteConverter** – For Conversion between String and `java.lang.Byte`
- **CharacterConverter** – For Conversion between String and `java.lang.Character`
- **DateTimeConverter** – For Conversion between String and `java.util.Date`
- **DoubleConverter** – For Conversion between String and `java.lang.Double`
- **FloatConverter** – For Conversion between String and `java.lang.Float`
- **IntegerConverter** – For Conversion between String and `java.lang.Integer`
- **LongConverter** – For Conversion between String and `java.lang.Long`
- **NumberConverter** – For Conversion between String and `java.lang.Number`
- **ShortConverter** – For Conversion between String and `java.lang.Short`

Custom converter

Appui sur Submit ⇒
appel a **getAsObject** du
converter

Custom Converter in JSF 2

Student Data: ram-21-xyz

Submit

Demander la page ⇒
appel a **getAsString** du
converter

← → ↻ localhost:8080/JSF2Der

Custom Converter in JSF 2

Student Data: RAM-21-XYZ

Submit

```
<h:inputText value="#{studentForm.student}" converter="stdcon"/>
```

C'est un object

L'id du converter

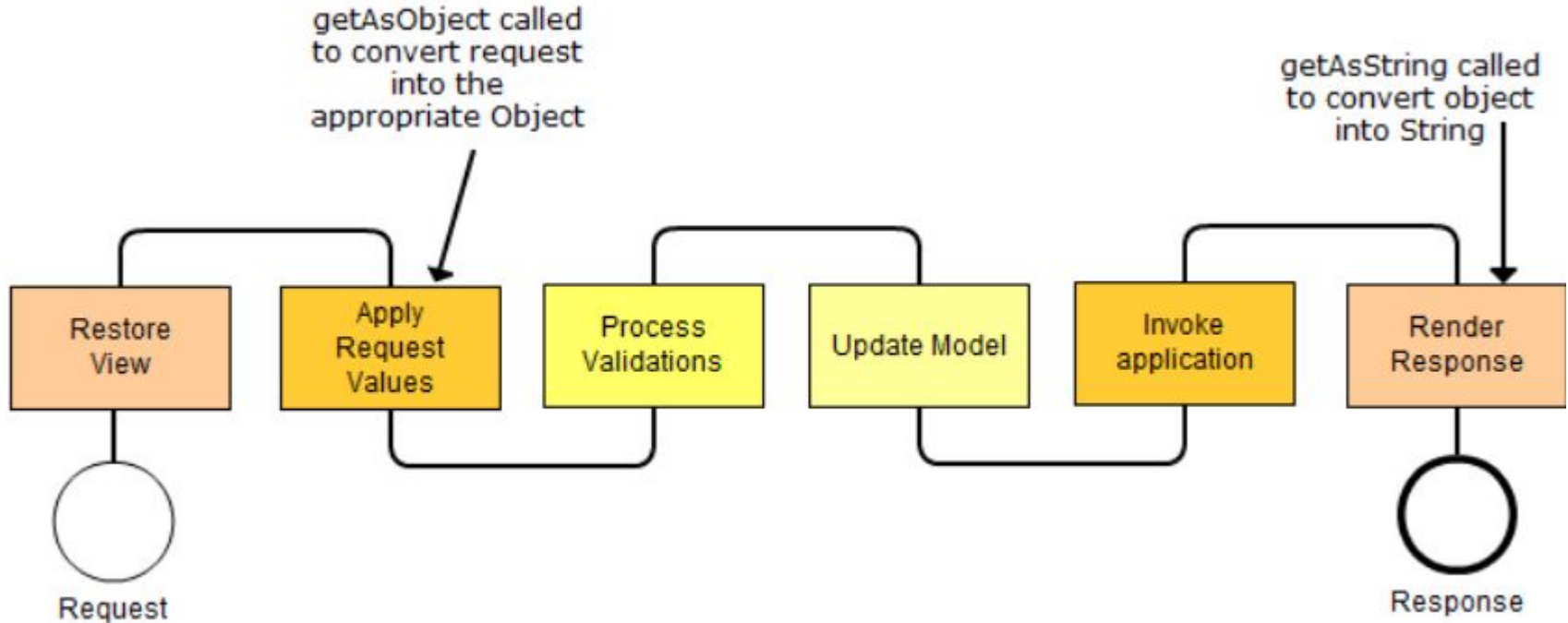
```

@FacesConverter("stdcon")
public class StudentConverter implements Converter {
    @Override
    public Object getAsObject(FacesContext context, UIComponent component,
        String value) {
        String[] strArr = value.split("-");
        if (strArr.length >= 3) {
            Student student = new Student();
            student.setName(strArr[0]);
            student.setAge(Integer.parseInt(strArr[1]));
            student.setCollege(strArr[2]);
            return student;
        }
        return null;
    }
    @Override
    public String getAsString(FacesContext context, UIComponent component,
        Object value) {
        if (value != null) {
            Student student = (Student) value;
            StringBuffer strBuff = new StringBuffer(student.getName()).append("-");
            strBuff.append(student.getAge()).append("-").append(student.getCollege());
            String studentStr = strBuff.toString();
            return studentStr;
        }
        return null;
    }
}

```

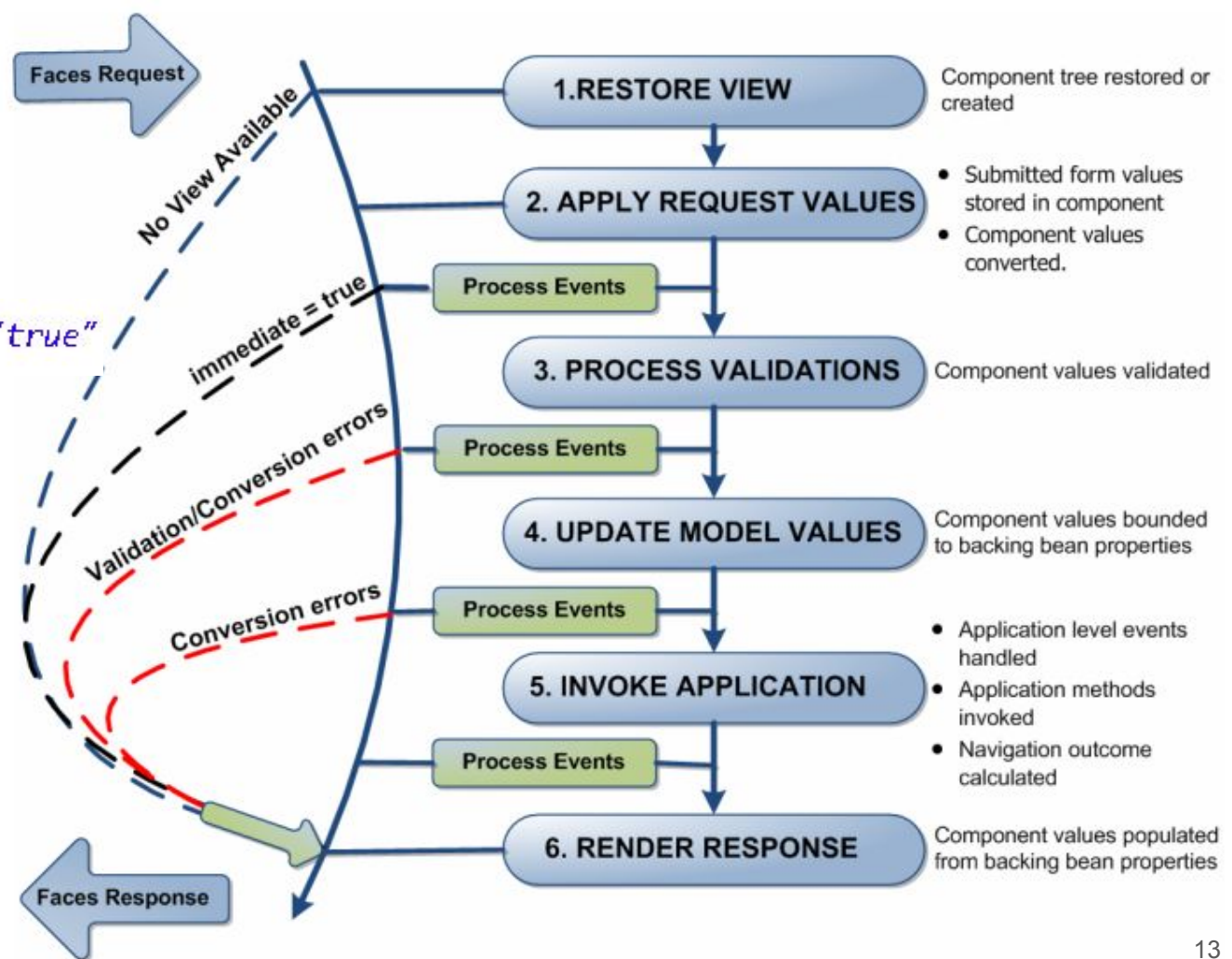
Custom converter

Conversion in JSF Lifecycle



JSF lifecycle

```
<h:commandButton immediate="true">
```



Correction de bugs

Enregistrer 2 utilisateurs avec le même login et même password

Essayer de se logger avec cet utilisateur dupliqué dans la base ⇒ **bug !**

```
@Column(unique=true, nullable=false)  
private String email;
```

Dans la page “gerer les employes” on récupère tous les employés et pas les employés de l’entreprise en question (celle de l’admin) ⇒ **bug !**

Ajouter bouton pour reset de la form et de la variable **employeldToBeUpdated**