

# Java et le web

Mathieu ANCELIN

# Guide de survie servlets

# Servlet

```
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet(name="Application",
            urlPatterns={"/index"})
public class Application extends HttpServlet {

}
```

# Servlet

```
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet(name="Application", urlPatterns={"/index"})
public class Application extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req,
        HttpServletResponse resp)
        throws ServletException, IOException {
    }

    @Override
    protected void doPost(HttpServletRequest req,
        HttpServletResponse resp)
        throws ServletException, IOException {
    }
}
```

# Ecrire du texte

```
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet(name="Application", urlPatterns={"/index"})
public class Application extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req,
        HttpServletResponse resp)
        throws ServletException, IOException {
        resp.getOutputStream().println("Hello World!");
    }
}
```

# Rediriger vers une vue

```
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet(name="Application", urlPatterns={"/index"})
public class Application extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req,
HttpServletResponse resp)
throws ServletException, IOException {
        getServletContext()
            .getRequestDispatcher("/index.jsp")
            .forward(req, resp);
    }
}
```

# EJB

```
@Stateless
public class ShortenService {

    @PersistenceContext EntityManager em;
}

@WebServlet(name="Application", urlPatterns={"/index"})
public class Application extends HttpServlet {

    @EJB ShortenService service;

    @Override
    protected void doGet(HttpServletRequest req,
                           HttpServletResponse resp)
        throws ServletException, IOException {
        service.doSomething();
        resp.getOutputStream().println("Hello World!");
    }
}
```

# Entité

```
@Entity
public class Shorten implements Serializable {

    private final long serialVersionUID = 1L;

    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private Long id;

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }
}
```



# JSP

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>
        <a href="all">All</a>
    </body>
</html>
```

# Attributs JSP

```
@WebServlet(name="Application", urlPatterns={"/index"})  
public class Application extends HttpServlet {
```

```
    @Override  
    protected void doGet(HttpServletRequest req,  
        HttpServletResponse resp) throws ServletException,  
        IOException {  
        req.setAttribute("value", "Hello World!");  
        getServletContext()  
            .getRequestDispatcher("/index.jsp")  
            .forward(req, resp);  
    }  
}
```

```
<body>  
    <h1>${value}</h1>  
</body>
```

# Listes

```
<body>
  <a href="index">Back</a>
  <ul>
    <c:forEach items="${shortens}" var="shorten">
      <li>
        <a href="${shorten.url}">${shorten.url}</a>
      </li>
    </c:forEach>
  </ul>
</body>
```

# Tests

```
<body>
  <a href="all">All</a>

  <form action="index" method="post">
    <input type="text" name="url" id="url">
    <input type="submit" value="add">
  </form>

  <c:if test="{not empty miniurl}">
    <p>
      <a href="{url}">{url}</a> =>
      <a href="{miniurl}">{miniurl}</a>
    </p>
  </c:if>
</body>
```

# Guide de survie JSF

# Contrôleur

```
import javax.enterprise.context.RequestScoped;  
import javax.inject.Named;
```

```
@Named
```

```
@RequestScoped
```

```
public class MonContrôleur {  
    public String getTitle() {  
        return "Hello World!";  
    }  
}
```

```
<h1>
```

```
    <h:outputText
```

```
        value="#{monContrôleur.title}" />
```

```
</h1>
```

# Modèle

```
import javax.enterprise.context.SessionScoped;  
import javax.inject.Named;
```

```
@Named @SessionScoped  
public class MonModele {  
    private String title;  
    public String getTitle() {  
        return title;  
    }  
    public void setTitle(String title) {  
        this.title = title;  
    }  
}
```

```
<h1>
```

```
<h:outputText
```

```
    value="#{monModele.title}" />
```

```
</h1>
```

# Utiliser le modèle depuis le contrôleur

```
import javax.enterprise.context.RequestScoped;  
import javax.inject.Named;  
import javax.inject.Inject;  
  
@Named  
@RequestScoped  
public class MonContrôleur {  
  
    @Inject MonModele modele;  
  
    public String getTitle() {  
        return modele.getTitle();  
    }  
}
```



# Utiliser un service depuis le contrôleur

```
import javax.enterprise.context.RequestScoped;  
import javax.inject.Named;  
import javax.inject.Inject;  
  
@Named  
@RequestScoped  
public class MonContrôleur {  
  
    @Inject Service service;  
  
    public String getTitle() {  
        return modele.getTitleFromDatabase();  
    }  
}
```

# Aller vers

```
import javax.enterprise.context.RequestScoped;  
import javax.inject.Named;
```

```
@Named
```

```
@RequestScoped
```

```
public class MonContrôleur {
```

```
    public String listAll() {
```

```
        // code métier
```

```
        return "list.xhtml";
```

```
    }
```

```
}
```

# Aller vers

```
<h:form>  
    <h:commandLink  
action="#{monControlleur.listAll()}"  
value="Voir liste" />  
</h:form>
```

# Image

```
<h:graphicImage url="/test.jpg" />
```

```
<h:graphicImage  
    url="#{monControleur.url}" />
```

# Liste

```
<ul>
  <ui:repeat
    value="#{monContrôleur.values}"
    var="value">
    <li>
      <h:outputText
        value="#{value}" />
    </li>
  </ui:repeat>
</ul>
```

# Tables

```
<h:dataTable
  value="#{monControleur.produits}"
  var="produit">
  <h:column rowHeader="Nom">
    <h:outputText
      value="#{produit.nom}" />
  </h:column>
  <h:column rowHeader="Prix">
    <h:outputText
      value="#{produit.prix}" />
  </h:column>
</h:dataTable>
```