TD n°1, éléments de correction

Exercice 1

Corrigé dans l'énoncé

Exercice 2

Exemple d'énumération des variables passées dans l'url :

```
<%@page import="java.util.Enumeration"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Récupération GET</title>
</head>
<body>
    <table border="1">
        <thead>
            <tr>
                <th>Nom</th>
                <th>Valeur</th>
            </tr>
        </thead>
        <%
            Enumeration<String> names = request.getParameterNames();
            while (names.hasMoreElements()) {
                String name = names.nextElement();
                String value = request.getParameter(name);
                out.print("<tr>" + name + "<td></td><td>" + value    +
"</td></tr>");
            }
        %>

    </table>
</body>
</html>
```

Exercice 3

Récupération des variables d'un formulaire posté dans une servlet

```
@WebServlet(name="Submit", urlPatterns = { "/submit.do" })
public class Submit extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;

    /**
     * Retourne le flux de sortie
     * @param response
     * @return
     * @throws IOException
     */
    private PrintWriter getOut(HttpServletResponse response) throws IOException{
        response.setCharacterEncoding("UTF8");
        response.setContentType("text/html");
        PrintWriter out=response.getWriter();
        return out;
    }
    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        PrintWriter out=getOut(response);
        out.print("Méthode GET interdite sur cette page");
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        PrintWriter out=getOut(response);
        if(request.getParameter("name")!=null){
            out.print("Informations saisies :<br>");
            out.print("<div>Nom : "+request.getParameter("name")+"</div>");
            if(request.getParameter("password")!=null)
                out.print("<div>Mot de passe :
"+request.getParameter("password")+"</div>");
        }
    }
}
```

Exercice 4

Gestion des informations temporaires, sessions et cookies
JSP et servlets, mise en place d'un contrôleur

Classe métier :Link

```
package net.td.metier;

public class Link {
```

```
    private String nom;
    private String adresse;
    public Link() {
        this("","http://");
    }
    public Link(String nom, String adresse) {
        super();
        this.nom = nom;
        this.adresse = adresse;
    }
    public String getNom() {
        return nom;
    }
    public void setNom(String nom) {
        this.nom = nom;
    }
    public String getAdresse() {
        return adresse;
    }
    public void setAdresse(String adresse) {
        this.adresse = adresse;
    }
    public boolean isValid(){
        if(adresse==null ||"".equals(adresse))
            return false;
        Pattern p=Pattern.compile("^(http|https|ftp){1}(://){1}.+?$");
        Matcher m=p.matcher(adresse);
        return m.matches();
    }
    @Override
    public String toString() {
        return "Link [nom=" + nom + ", adresse=" + adresse + "]";
    }
    public void copyFrom(Link aLink){
        nom=aLink.getNom();
        adresse=aLink.getAdresse();
    }
}
```

Classes techniques

Gateway : Passerelle persistance/métier

```
package net.td.utils;

public class Gateway {

    /**
     * Retourne la liste des liens contenue dans la session
     * Si la liste n'existe pas encore en Session, celle-ci est créée
     * @param request Requête Http
     * @return Liste des liens
```

```
     */
    public static ArrayList<Link> getLinks(HttpServletRequest request){
        ArrayList<Link> result;
        if(request.getSession().getAttribute("links")!=null){
            result=(ArrayList<Link>) request.getSession().getAttribute("links");
        }else
        {
            result=new ArrayList<Link>();
            request.getSession().setAttribute("links", result);
        }
        return result;
    }
    /**
     * Retourne un lien à partir du paramètre id passé dans la requête
     * @param request
     * @return
     */
    public static Link getLink(HttpServletRequest request){
        Link result=null;
        if(request.getParameter("id")!=null){
            try{
                int id=Integer.valueOf(request.getParameter("id"));
                result=getLinks(request).get(id);
            }catch(Exception e){
                result=null;
            }
        }
        return result;
    }
    /**
     * Mise à jour ou ajout à partir des paramètres de request du lien aLink
     * @param aLink
     * @param request
     */
    public static void updateLink(Link aLink,HttpServletRequest request){
        ArrayList<Link> links=getLinks(request);
        Link theLink=getLink(request);
        if(theLink!=null){
            theLink.copyFrom(aLink);
        }else{
            links.add(aLink);
        }
    }
}
```

Gui : Interfaces

```
package net.td.utils;

public class Gui {
    /**
     * Retourne un lien au format HTML
     * @param aLink
```

```
     * @param index
     * @return
     */
    public static String showLink(Link aLink,int index){
        String result="<div><a href='"+aLink.getAdresse()+"'
target='openLink'>"+aLink.getNom()+"</a> <a
href='update.do?id="+index+"'>...</a></div>";
        return result;
    }
    /**
     * Retourne une liste de lien au format HTML
     * @param links
     * @return
     */
    public static String ShowLinks(ArrayList<Link> links){
        String result="";
        for(int i=0;i<links.size();i++){
            result+=showLink(links.get(i),i);
        }
        return result;
    }
}
```

Vues

```
<%@page import="net.td.utils.Gateway"%>
<%@page import="net.td.metier.Link"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
String ck="";
String id=request.getParameter("id");
Link link=Gateway.getLink(request);
if(link!=null){
    ck="<input type='checkbox' name='delete' id='delete'>";
    ck+="<label for='delete'>Supprimer le lien</label>";
}else
    link=new Link();
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Ajout/modification de lien</title>
</head>
<body>
<form action="update.do" method="post">
    <input type="hidden" id="id" name="id" value="<%=id%>">
    <div>
        <label for="nom">Nom :</label>
        <input type="text" name="nom" id="nom" value="<%=link.getNom()%>">
    </div>
    <div>
```

```
        <label for="adresse">Adresse :</label>
        <input type="text" name="adresse" id="adresse"
value="<%=link.getAdresse()%>">
    </div>
    <div><%=ck %></div>
    <input type="submit" value="Continuer >>">
</form>
</body>
</html>
```

Contrôleur

Le contrôleur gère :

- La logique applicative (réponses aux requêtes, redirections, chargement des vues)
- Le contrôle des données

```
package net.td.controller;

/**
 * Servlet implementation class SLink
 */
@WebServlet({ "/SLink", "*.do" })
public class SLink extends HttpServlet {
    private static final long serialVersionUID = 1L;
    /**
     * Retourne l'action sollicitée par la requête
     * @param request
     * @return
     */
    private String getAction(HttpServletRequest request){
        String result="";
        String[] parts=request.getRequestURI().split("/");
        if(parts.length>0)
            result=parts[parts.length-1];
        return result;
    }
    /**
     * Charge une vue (jsp située dans le dossier protégé WEB-INF)
     * @param viewName
     * @param request
     * @param response
     * @throws ServletException
     * @throws IOException
     */
    private void loadView(String viewName,HttpServletRequest
request,HttpServletResponse response) throws ServletException, IOException{
        request.getRequestDispatcher("WEB-INF/"+viewName+".jsp").forward(request,
response);
        System.out.println("redirection vers WEB-INF/"+viewName+".jsp");
    }
    /**
     * @see HttpServlet#HttpServlet()
```

```
     */
    public SLink() {
        super();
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        PrintWriter out=response.getWriter();
        String action=getAction(request);
        switch (action) {
        case "list.do":
            loadView("listLinks", request, response);
            break;
        case "update.do":
            loadView("frmLink", request, response);
            break;
        default:
            System.out.println("Aucune action du nom de "+action+"(GET) à
effectuer");
            break;
        }
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        String action=getAction(request);
        switch (action) {
        case "delete.do":
            break;
        case "update.do":
            updateLink(request, response);
            break;
        default:
            System.out.println("Aucune action du nom de "+action+"(POST) à
effectuer");
            break;
        }
    }

    /**
     * Procédure de contrôle de la mise à jour/ajout d'un lien
     * @param request
     * @param response
     * @throws ServletException
     * @throws IOException
     */
    private void updateLink(HttpServletRequest request,HttpServletResponse
response) throws ServletException, IOException {
```

```
        Link aLink=new Link();
        if(request.getParameter("nom")!=null &&
request.getParameter("adresse")!=null){
            aLink.setNom(request.getParameter("nom"));
            aLink.setAdresse(request.getParameter("adresse"));
            if(aLink.isValid()){
                Gateway.updateLink(aLink, request);
                loadView("listLinks", request, response);
            }else{
                request.setAttribute("link", aLink);
                loadView("error", request, response);
            }
        }
    }

}
```

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