3.18日作业

作业1: 用过滤器设置新闻发布系统的编码

思路

- 1. 代码重构,将之前的每个servlet中设置编码的代码删除,做测试
- 2. 然后新建一个过滤器(MyFilter)
- 3. 在过滤器中设置请求和响应的编码格式
- 4. 最后运行项目,看测试结果

具体实现

- 1. 首先先跑一下我们的项目看有没有出现乱码问题
- 2. 然后先随便注释一下一个servlet的设置编码的代码

```
@WebServlet(name = "LoginServlet",urlPatterns = "/login")
public class LoginServlet extends HttpServlet {
   protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException (
   protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
   }
   @Override
   protected void service(HttpServletRequest reg. HttpServletResponse resp) throws ServletException, IOException (
          reg.setCharacterEncoding("utf-8"):
          resp.setContentType("text/html");
         resp.setCharacterEncoding("utf-8");
       BizDao bizDao=new BizDaolmple():
       String username=req.getParameter( s: "username")
       String password=req.getParameter( s: "password");
       boolean b = bizDao.validateUser(username, password);
           req.getRequestDispatcher( s: "admin/admin.jsp").forward(req,resp);
       }else {
           resp.sendRedirect( S: "index.jsp");
```

- 3. 然后新建一个过滤器Filter
- 4. 在Filter的doFilter方法中编写如下代码

```
1
    public void doFilter(ServletRequest req, ServletResponse resp,
   FilterChain chain) throws ServletException, IOException {
           HttpServletRequest httpServletRequest=(HttpServletRequest)
2
   req;
3
           HttpServletResponse HttpServletResponse=(HttpServletResponse)
   resp;
           httpServletRequest.setCharacterEncoding("utf-8");
4
5
           HttpServletResponse.setCharacterEncoding("utf-8");
6
           chain.doFilter(req, resp);
       }
```

```
#/
@WebFilter(filterName = "MyFilter")
public class MyFilter implements Filter {
public void destroy() {
}

public void doFilter(ServletRequest req, ServletResponse resp, FilterChain chain) throws ServletException, IOException {

HttpServletRequest httpServletRequest=(HttpServletRequest) req;

HttpServletResponse HttpServletResponse) resp;

httpServletRequest.setCharacterEncoding("utf-8");

httpServletRequest.setCharacterEncoding("utf-8");

### MyKequest myKequest=new MyKequest(httpServletRequest);

chain.doFilter(req, resp);
}

public void init(FilterConfig config) throws ServletException {
}

public void init(FilterConfig config) throws ServletException {
}
```

5. 然后再运行项目发现之前删除的servlet设置编码的也没有出现乱码,那么就可以把所有的 servlet的编码设置都去掉了

作业2:设置登录之后,3分钟以后将用户的session销毁

思路

- 1. 首先实现监听器,监听我们的session
- 2. 在我们的用户登录的实体类即User类中实现监听接口
- 3. 在登录的servlet中获取登录的用户名和密码,然后保存到User对象中,用session存储起来,并且设置好session的销毁时间
- 4. 测试观察结果即可

具体实现

1. 创建监听器,实现session监听的接口

```
@WebListener()
public class MyListener implements HttpSessionListener, HttpSessionAttributeListener {
```

2. 然后listener的具体代码如下

```
import javax.servlet.annotation.WebListener;
   import javax.servlet.http.HttpSessionAttributeListener;
   import javax.servlet.http.HttpSessionBindingEvent;
 3
   import javax.servlet.http.HttpSessionEvent;
 4
 5
   import javax.servlet.http.HttpSessionListener;
 6
 7
    @webListener()
    public class MyListener implements HttpSessionListener,
 8
    HttpSessionAttributeListener {
9
10
        @override
11
        public void attributeAdded(HttpSessionBindingEvent
    httpSessionBindingEvent) {
```

```
System.out.println("session中添加
12
    了"+httpSessionBindingEvent.getName()+"|值
    为"+httpSessionBindingEvent.getValue());
13
        }
14
15
        @override
16
        public void attributeRemoved(HttpSessionBindingEvent
    httpSessionBindingEvent) {
17
            System.out.println("session中移除
    了"+httpSessionBindingEvent.getName()+"|值
    为"+httpSessionBindingEvent.getValue());
18
        }
19
20
        @override
        public void attributeReplaced(HttpSessionBindingEvent
21
    httpSessionBindingEvent) {
22
            System.out.println("session中替换
    了"+httpSessionBindingEvent.getName()+"|值
    为"+httpSessionBindingEvent.getValue());
23
        }
24
25
        @override
26
        public void sessionCreated(HttpSessionEvent httpSessionEvent) {
            System.out.println("session被创建了");
27
28
29
30
        @override
        public void sessionDestroyed(HttpSessionEvent httpSessionEvent)
31
    {
32
            System.out.println("session销毁了");
33
        }
    }
34
```

3. 我们的User类实现监听接口HttpSessionBindingListener并且编写重写方法

4. 在我们的loginServlet中编写Session,并且设置Session有效期

```
protected void service(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
     reg.setCharacterEncoding("utf-8"),
                                                       这里写doGet方法中也可以
     resp.setContentType("text/html");
     resp.setCharacterEncoding("utf-8");
   BizDao bizDao=new BizDaoImple();
   //获取session
   HttpSession session = req.getSession( b: true);
   // 获取用户名和密码
   String username=req.getParameter( s: "username");
   String password=req.getParameter( s: "password");
   //生成我们的UserInfo实例
   UserInfo userInfo=new UserInfo();
   userInfo.setPassword(password);
   userInfo.setUsername(username);
   //将我们的UserInfo对象放入session中
   session.setAttribute( s: "userInfo", userInfo);
   session.setMaxInactiveInterval(180);//单位是秒
   boolean b = bizDao.validateUser(username, password);
       req.getRequestDispatcher( s: "admin/admin.jsp").forward(req,resp);
   }else {
     resp.sendRedirect( S: "comment");
```

5. 运行项目,观察控制台结果

运行开始

```
// 秋秋州广石州海河
        String username=req.getParameter( s: "username");
        String password=req.getParameter( s: "password");
        //生成我们的UserInfo实体类
        UserInfo userInfo=new UserInfo();
        //给实体类赋值
        userInfo.setPassword(password);
        userInfo.setUsername(username);
        //将我们的UserInfo对象放入session中
        session.setAttribute( s: "userInfo",userInfo);
        //设置session的时间,三分钟,然后观看时间
        session.setMaxInactiveInterval(180);//单位是秒
        boolean b = bizDao.validateUser(username, password);
           req.getRequestDispatcher( s: "admin/admin.jsp").forward(req,resp);
        }else {
           resp.sendRedirect( s: "comment");
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   session中添加了userInfo|值为UserInfo{user_id=0, username='admin', password='admin'}
```

运行结束

```
session.setAttribute( s: "userInfo", userInfo);
           //设置session的时间,三分钟,然后观看时间
           session.setMaxInactiveInterval(180);//单位是秒
           boolean b = bizDao.validateUser(username, password);
               req.getRequestDispatcher(s: "admin/admin.jsp").forward(req,resp);
              resp.sendRedirect( s: "comment");
   }
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 🎯 🛊 把Person存放到session中: UserInfo{user_id=0, username='admin', password='admin', Wed Mar 18 19:49:44 CST 2020
      session中添加了userInfo|值为UserInfo{user_id=0, username='admin', password='admin'}
      Wed Mar 18 19:49:50 CST 2020 WARN: Establishing SSL connection without server's identity verification is not rec
       session領数T
     把Person移除了到session中: UserInfo{user_id=0, username='admin', password='admin',}Wed Mar 18 19:53:20 C<mark>s</mark> 2020
      session中移除了userInfo|值为UserInfo{user_id=0, username='admin', password='admin'}
      session中移除了javax.servlet.jsp.jstl.fmt.request.charset|值为UTF-8
```

思考:既然session是一次会话期,那么我们可以用session来判断用户是否登录在线,以防止用户不在线还可以正常访问我们本来需要登录的页面?

- 1. 我们用户登录创建session
- 2. 然后在页面中做判断,用reqest取在session中的值,看我们的session用户是否存在,如果存在,才让访问,否则的话回到登录页面