練習 網路應用程式裡使用Filter

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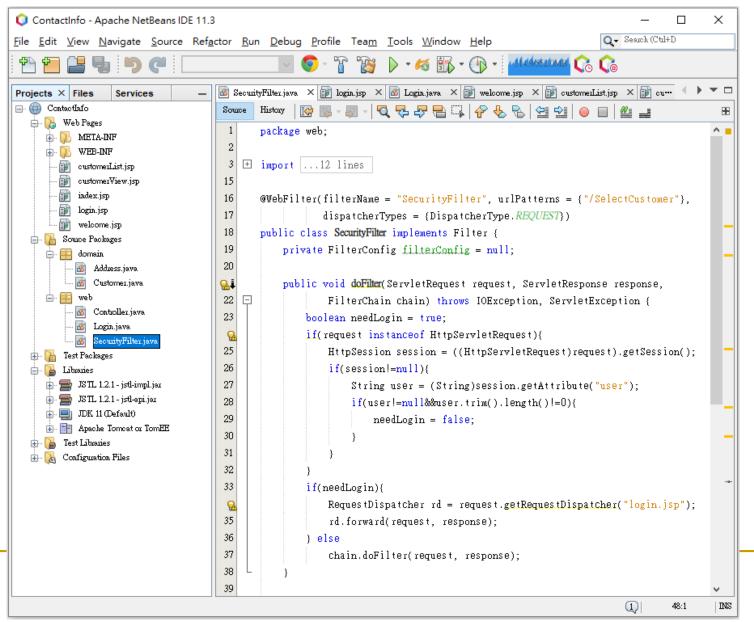
Lab

- 修改 ContactInfo 網路應用專案
- 新增Filter 類別 SecurityFilter.java
 - □ Filter Mapping URL Patterns 設為"/SelectCustomer"
 - □ Dispatch 狀態勾選 REQUEST
 - □ 初始參數:無
 - □ 刪除下列NetBeans 實作內容
 - getFilterConfig()、setFilterConfig()、sendProcessError()、log()、toString()、doBeforeProcessing()、doAfterProcessing() 方法
 - □ init(FilterConfig filterConfig) 方法僅保留filterConfig初始設定
 - □ destroy()方法修改為空白實作
 - □ 修改doFilter(...)
 - 取得Session物件中"user"屬性
 - 若Session物件或"user"屬性不存在時,轉送login.jsp畫面
 - Session物件及"user"屬性存時,執行 chain.doFilter(...);

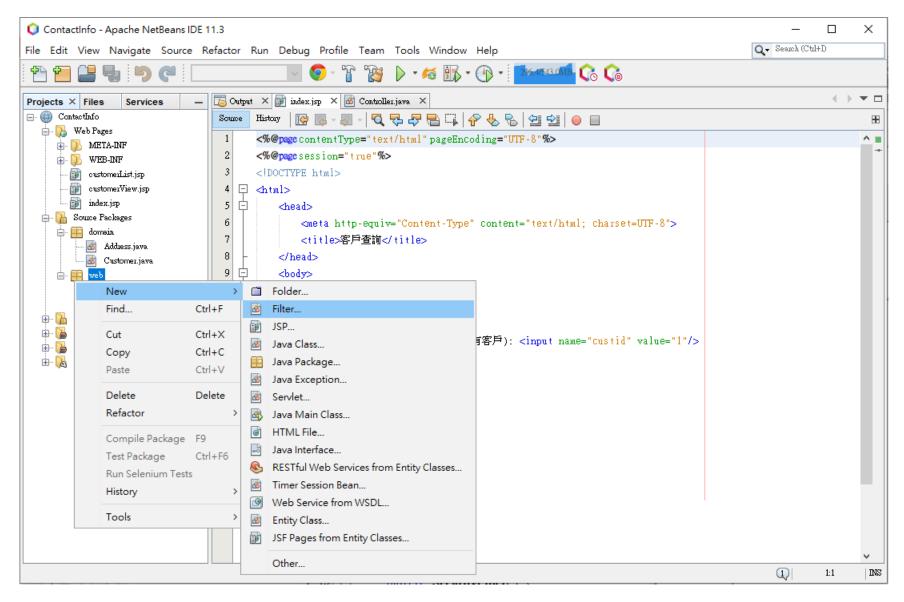
Lab

- 新增 login.jsp
 - □ 輸入使用者姓名的Form表單
 - Action 送至"Login"
 - user 輸入欄位
- 新增 web.Login.java Servlet
 - □ 取得請求參數user並存入HttpSession屬性
 - □ 轉送至welcome.jsp
- 新增 welcome.jsp
 - □ 顯示歡迎使用者登入資訊
 - □ 回首頁連結
- 修改 customerList.jsp及customerView.jsp 檔案
 - □ 在內容之前,顯示問候user資訊
- 測試、執行
 - □ 顯示問候使用者的資訊

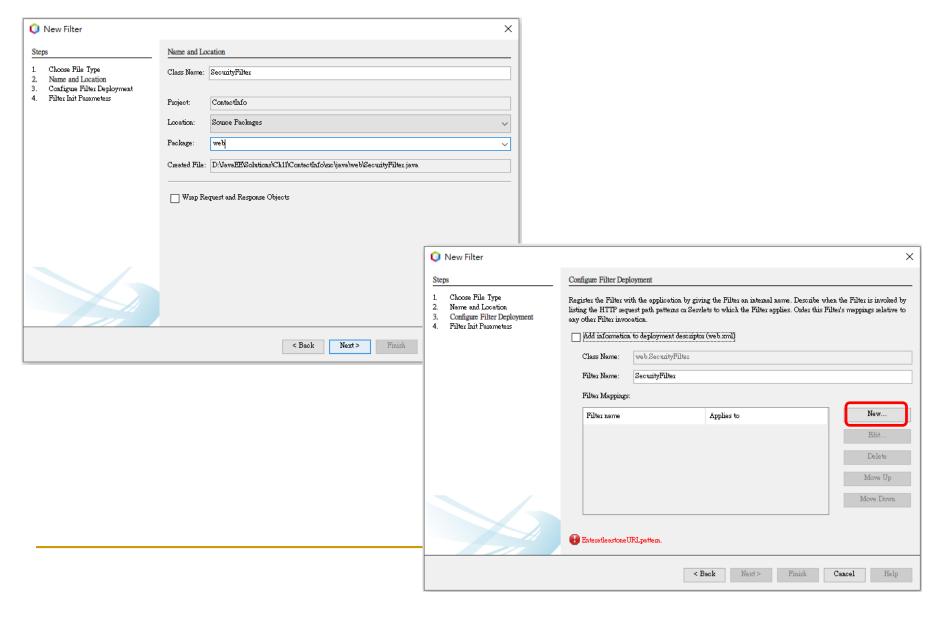
ContactInfo 專案



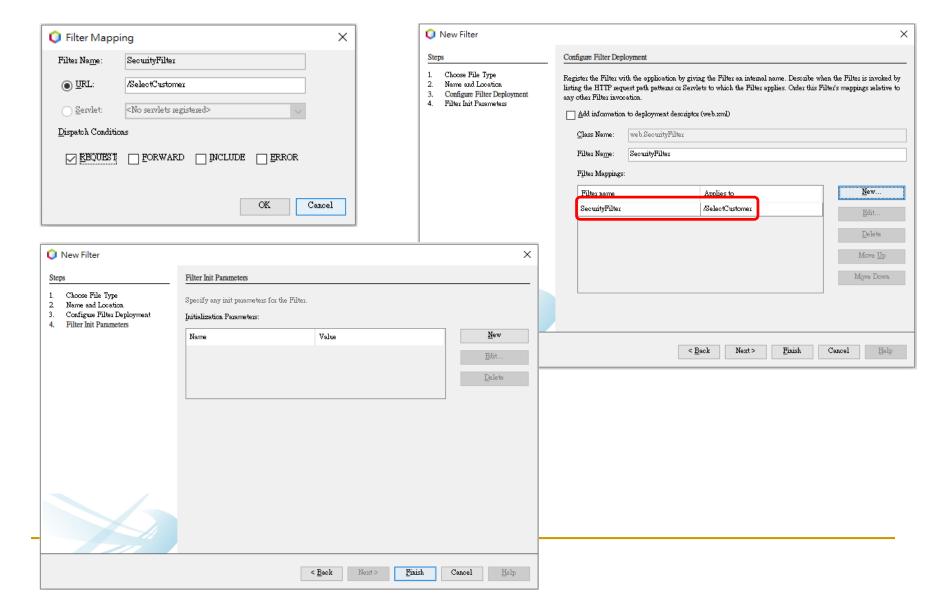
新增Filter類別 SecurityFilter.java



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SecurityFilter.java

```
Source
                                                                                              public void destroy() {
      package web:
                                                                                    42
                                                                                    ₩ =
                                                                                              public void init(FilterConfig filterConfig) {
      import |...12 lines
                                                                                                  this.filterConfig = filterConfig;
15
      @WebFilter(filterName = "SecurityFilter", urlPatterns = {"/SelectCustomer"},
16
                                                                                    4б
                 dispatcherTypes = {DispatcherType.REQUEST})
17
                                                                                    47
      public class SecurityFilter implements Filter {
18
19
          private FilterConfig filterConfig = null;
20
          public void doFilter(ServletRequest request, ServletResponse response,
Q.↓
                 FilterChain chain) throws IOException, ServletException {
22
              boolean needLogin = true:
              if(request instanceof HttpServletRequest){
                  HttpSession session = ((HttpServletRequest)request).getSession();
                  if(session!=null){
                     String user = (String)session.getAttribute("user");
                      if(user!=null&&user.trim().length()!=0){
                          needLogin = false;
30
31
              if(needLogin){
33
                  RequestDispatcher rd = request.getRequestDispatcher("login.jsp");
                  rd.forward(request, response);
3б
              } else
                  chain.doFilter(request, response);
37
38
```

login.jsp

```
📦 login.jsp 🗶
      History
            Source
      <%@page contentType="text/html" pageEncoding="UTF-8"%>
      <!DOCTYPE html>
   - <html>
   <head>
             <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
             <title>登入書面</title>
 6
         </head>
         <body>
             <h1>登入畫面</h1>
             <form action="Login">
 10
                使用者姓名: <input type="text" name="user"/>
11
12
                <input type="submit"/>
13
             </form>
         </body>
 14
15
      </html>
```

web.Login.java

```
Source
       History
       package web;
    ± import |...8 lines
 11
12
       @WebServlet(name = "Login", urlPatterns = { "/Login"})
13
       public class Login extends HttpServlet {
14
15
          protected void processRequest(HttpServletRequest request, HttpServletResponse response)
16
                  throws ServletException, IOException {
17
              HttpSession session = request.getSession();
 18
              String user = request.getParameter("user");
 19
              session.setAttribute("user", user);
              RequestDispatcher rd = request.getRequestDispatcher("welcome.jsp");
 20
              rd.forward(request, response);
 22
 23
24
   +
          HttpServlet methods. Click on the + sign on the left to edit the code.
62
63
 64
```

welcome.jsp

```
📦 welcome.jsp 🗶
               History
Source
      <%@page contentType="text/html" pageEncoding="UTF-8"%>
      <!DOCTYPE html>
   □ <html>
   <head>
             <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
             <title>歡迎畫面</title>
         </head>
         <body>
             <h3>${user}, 你好! </h3>
10
             <br>br>
11
            <a href='index.jsp'>回首頁</a>
13
         </body>
      </html>
```

customerView.jsp

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</body>

</html>

```
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 oustomerView.jsp X
     History
           Source
     <%@page contentType="text/html" pageEncoding="UTF-8"%>
     <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
     <!DOCTYPE html>
   <html>
   占
6
         <head>
             <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
8
             <title>Customer Info</title>
9
         </head>
10
         <body>
             <h3>${user}, 你好!</h3>
11
             <h3>客戶資訊</h3>
12
```

```
<c:choose>
   <c:when test = "${not empty customer}">
        姓名: ${customer.name}
        <cif test = "${not empty customer.officeAddress}">
        辦公室地址:<br>
            ${customer.officeAddress.address1}, <br>
            ${customer.officeAddress.address2}, <br>
            ${customer.officeAddress.city}, <br>
            ${customer.officeAddress.country}, <br>
            ${customer.officeAddress.postcode}<br>
        </cif>
        <cif test = "${customer.billingAddress ne null}">
        会>發票地址:<br>
           ${customer["billingAddress"].address1},<br>
           ${customer["billingAddress"].address2}, <br>
           ${customer["billingAddress"].city}, <br>
           ${customer["billingAddress"].country},<br>
           ${customer["billingAddress"].postcode}<br>
        </c:if>
        <cif test = "${not empty customer.addresses[2]}">
        送貨地址:<br>
           ${customer.addresses[2].address1}, <br>
            ${customer.addresses[2].address2}, <br>
           ${customer.addresses[2].city}, <br>
           ${customer["addresses"][2].country}, <br>
           ${customer["addresses"][2].postcode}<br>
        </cif>
    </c>when>
    <c:otherwise>
        <h3>查詢的客戶不存在</h3>
    </c:otherwise>
</cchoose>
```

customerList.jsp

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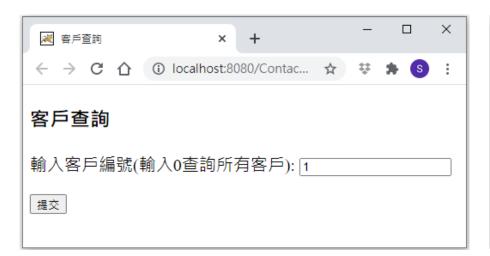
51

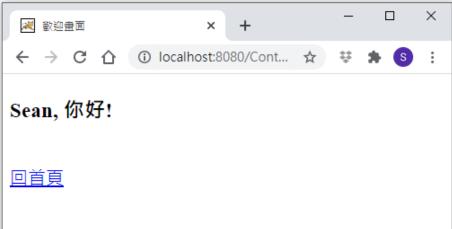
</html>

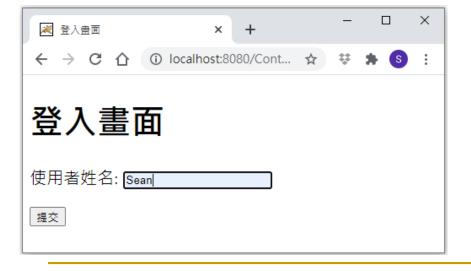
```
customerList.jsp X
Source
      History
            <%@page contentType="text/html" pageEncoding="UTF-8"%>
 2
      <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
 3
      <!DOCTYPE html>
 4
   <html>
 5
          <head>
 6
              <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
 7
              <title>Customer List</title>
 8
          </head>
 9
          <body>
 10
             <h3>${user}, 你好!</h3>
             <h3>客戶列表</h3>
 11
```

```
<c:choose>
        <c:when test = "${not empty Customers}">
            <c:forEach var="customer" items="${customers}">
                姓名: ${customer.name}
                <cif test = "${not empty customer.officeAddress}">
                ;辦公室地址:
                    ${customer.officeAddress.address1},
                    ${customer.officeAddress.address2},
                    ${customer.officeAddress.city},
                    ${customer.officeAddress.country},
                   ${customer.officeAddress.postcode}
                </c:if>
                <cif test = "${customer.billingAddress ne null}">
                ◇p>發票地址:
                    ${customer["billingAddress"].address1},
                    ${customer["billingAddress"].address2},
                    ${customer["billingAddress"].city},
                   ${customer["billingAddress"].country},
                    ${customer["billingAddress"].postcode}
                </c:if>
                <cif test = "${not empty customer.addresses[2]}">
                >送貨地址:
                    ${customer.addresses[2].address1},
                    ${customer.addresses[2].address2},
                    ${customer.addresses[2].city},
                    ${customer["addresses"][2].country},
                    ${customer["addresses"][2].postcode}
                </c:if>
                <br >
            </c>forEach>
        </c:when>
        <c:otherwise>
            <h3>無客戶存在</h3>
        </c:otherwise>
    </c>
</body>
```

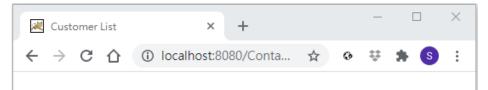
測試、執行







測試、執行



Sean, 你好!

客戶列表

姓名: 蔡英文

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送貨地址:重慶南路二段100號,總統官邸,台北,台灣,100

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