Contract Management System

View Layer Development

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Copyright Declaration

Function

1. Login

(1) Introduction

Enter user name, password on login page, and click “Login” button. Both user name and password are required for login, or errant message appears on login page. If the operation fails, prompt user of message “Wrong user name or password!” If system error happens, prompt use of message “System error!” If login succeeds, jump to the new user page with user name displayed.

(2) Input

Enter following message on the page.

① user name

② password

(3) Processing

① Both user name and password are required for verification.

② For wrong user name or password, give prompting message on login page with user name being retained in login textbox.

③ Check user data by select and matching, and pass user name to new user page for display.

(4) Output

① If login succeeds, jump to new user page with user name displayed.

② If no user name is entered, prompt user of the message “User name is required.”. If no password is entered, prompt message “Password is required.”.

③ If login fails, prompt user of the message “Wrong user name or password!” on login page.

④ If system error occurs, jump to exceptional page with message “System error!” posted.

2. Logoff

(1) Introduction

If the user who logged on clicks “Logoff” link on the new user page, its logging status is cleared and the program returns to login page.

(2) Input

Click “Logoff” link on new user page.

(3) Processing

Clear user dialog information.

(4) Input

Jump to login page.

Design

The function of login is developed in an iterative way.

Iteration 1, view layer development.

Design the layout of login page. Receive login data and process the request of login. According to processing result, the program jumps to corresponding page. If login succeeds, jump to new user page and display user name accordingly.

Process the request of logoff to fulfill exit function.

Iteration 2, business logic layer and data access layer development.

Conduct business logic layer and data access layer developments, to implement the logic processing of login and database access.

Implement full login function by combining View Layer Development.

In this iteration, we'll fulfill View Layer Development by coding in it as follow.

(1) Create pages relating to login function.

① Login page. Create ToLoginServlet class for the output of a HTML login page.

② New user page. Create ToNewUserServlet class for the output of a HTML new user page.

③ Exception page. Create ToErrorServlet class for the output of a HTML exception page.

(2) Process login request. Create LoginServlet class to receive login data and process the request as well.

(3) Process logoff request. Create LogoutServlet class to process the request of logoff.

Design

1. Servlet class design to output HTML page

Create ToLoginServlet, ToNewUserServlet and ToErrorServlet classes in com.ruanko.web of the project, inheriting javax.servlet.http.HttpServlet.

(1) ToLoginServlet outputs HTML login page, receiving login data and display processing result.

(2) ToNewUserServlet outputs HTML new user page, displaying user name for succeeded login.

(3) ToErrorServlet outputs HTML exception page, displaying exceptional message if any exception occurs.

(4) ToLoginServlet class outputs login list and relative information as below.

```
public class ToLoginServlet extends HttpServlet {
      ......
      public void doGet() {
            ......
             //output login list
            <form action=" " method="post">
                  use name:  <input type="text" name="name"/>
                  password:   <input type="password" name="password"/>
                  <input type="submit" value="Login"/>
            </form>
            ......
      }
}
```

2. Servlet class design to process request

Create LoginServlet and LogoutServlet classes in com.ruanko.web of the project, inheriting javax.servlet.http.HttpServlet.

The access mapping of each Servlet class is to be configured in web.xml.

(1) LoginServlet class design

LoginServlet class is used to process login request, to get login data from ToLoginServlet class and set it in the attribute of entity class User for the verification of login data and its format.

After verification, call business logic UserService.login() to process login logic.

If login succeeds, save user object in session and relocate to new user page to display user data.

If login fails, jump to login page and display prompting message.

If system error occurs, relocate to exceptional page and display errant message.

(2) LogoutServlet class design

It is used to process logoff request by removing the user object out of session and relocating to login page.

Implementation

Iterative development on the basis of Register.

Firstly, create pages for the function of login, i.e. to create ToLoginServlet, ToNewUserServlet and ToErrorServlet classes.

Secondly, create LoginServlet class to process login request and create LogoutServlet class to implement the function of logoff.

Finally, verify login information and access authorization.

Step 1, create and configure page.

Step 2, create and configure LoginServlet class.

Step 3, pass user data by session.

Step 4, display login result.

Step 5, implement logoff.

Step 6, system verification.

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Thanks

Login