1. Create a servlet that gives you login form for the root path which asks for username and password.

    a. When both user exists in your data set and password is correct for the user.

        i. Create a new session

        ii. Add this user to the session so that he can access other pages in your application throughout the session life time.

            1. You need to create User class with two properties username and password.

            2. You need another class that maintain map of pre-defined users and acts as your database.

        iii. User should not be able to access any other pages in your application except the login page without prior login.

            1. User should be redirected to the login view when they attempt so.

        iv. Once logged in successfully, user should see logout link which when clicked destroys the session and user is sent back to the login page.

2. Since, authentication is the common logic you have to do for all your views, make a authentication filter and apply to all of your resources.

3. Update the login page to include a remember me checkbox.

    a. Logging in with remember on:

        i. The username should be stored in a cookie for a month.

        ii. When user comes back to the page his username should automatically be filled in, and the remember me checkbox automatically checked.

    b. Logging in with remember off

        i. The cookie should be deleted (if it exists)

4. Create a persistent cookie named promo and save value $100 inside the cookie that last for a month in user's machine.