**Use Case for Logging In**

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| **Name:** | Validate Password |
| **Summary:** | Communicates to another web application to obtain current user information |
| **Version:** | 1.1 |
| **Preconditions:** | 1. The “db” web application must be deployed before login is possible. |
| **Triggers:** | User presses the “Submit” button to log in |
| **Main Success**  **Scenario:** | 1. Current web application will use the username that the user input and send a request to the **db** web application.  2. The **db** web application receives request and queries its database for user matching supplied username.  3. After retrieving results, **db** web application sends response back to main web application.  4. Main web application uses the received hashed password to compare with supplied password that will be hashed in the same manner  5. If hashes match, then user is redirected to home.xhtml |
| **Alternative Success**  **Scenarios:** | 1. Username does not exist  1.1 Current web app sends supplied username to **db** web app.  1.2 **db** webapp has nothing in its database on user and sends back an empty list.  1.3 After receiving response from **db** web app and seeing the list is empty, the current web app displays an error on screen indicating there was an authentication error  2. Passwords do not match  2.1 Current web app sends supplied username to **db** web app.  2.2 **db** web app retrieves username from the database and sends the user info in a response  2.3 After receiving response from **db** web app, current web app compares password in response from **db** web app and compares it with supplied password that is hashed  2.4 hashes don’t match and an error is displayed on screen indicating an authentication error. |
| **Postconditions:** | 1. After the user supplies the correct user name and password the “loggedin” flag will be set to true in order to allow the user access to the application |
| **Business Rules:** | 1. User should not be able to open up any page by manually adding it to the URL in order to access it  2. User should not see the login screen anymore if they should manually navigate back to login.xhtml |
| **Notes:** | Any time a password is passed over the network between web apps it should always be hashed before transfer.  Thus the reason why the password sent from the **db** web app is already hashed.  The hashing algorithm is not designed to unencrypt what is encrypted, so encrypting the supplied password in the same manner is the only way to convert the password into something that is comparable to what was saved originally |
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