UC001: User login

Security, User Management, Authentication, Authorization



Reference: [Subject]**Document reference to be filled by Quality department if needed**

Edition/review: 1/0

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Date: 28/02/2017

**Changelog:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **User** | **Date** | **Comments** |
| 1 | DVH | 20170228 | Doc created |
|  |  |  |  |

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UC001: User login

# Use Case [001]: User logs into the system

## Description]

The User decides to log into the system, using name / password credentials

## Level

User Goal

## Trigger

The User clicks the login link.

## Primary Actor

The Primary Actor is either an administrator or a regular user

## Additional/Supporting Actors

In case of a regular user, an administrator can provide support or is able to elevate a user to the  
administrator role

## Stakeholders

* Production
* Support
* Accounting (if costs are tracked as well)
* Management
* Engineering

## Preconditions

The Primary Actor must have use of a workstation with an active internet connection or at least an internal access to the application. The workstation will have a browser window open, pointing to the site.

## Main Success Scenario

1. User clicks the “Login” link
2. System displays a form on which the user can enter his credentials and submits this
3. The system will encrypt these credentials and compare them to stored encrypted credentials
4. A match is found and the particular user is “logged in” the system
5. A result message is displayed denoting action success

## Extensions

1. **Exception**: Submitted credentials provide no authentication / authorization:
2. System displays a warning message that the user cannot be logged in due to faulty credentials but does NOT specify what fault
3. The user can attempt to enter other credentials and try again
4. The system displays a “contact an administrator if problem persists” message
5. **Exception:** user has entered faulty credentials three times in a row
6. The systems assumes a malicious attempt is made
7. In addition to the login / password fields a CAPTCHA is displayed to filter out automated attempts

## Post Conditions

### Success End Condition

* The “log in” link changes to “log out”
* User has now access to the application
* The login attempt(s) is (are) logged

### Minimal Guarantees

The system will never display a user’s password in any readable format to protect user privacy. The user will not be locked out after multiple failed attempts and CAPTCHA will be maintained.

### Failure End Condition

The user remains logged out and keeps being notified of failed attempts.

## Frequency

This case will, presumably, occur twice a day for each user.

## Special Requirements

### Performance

Timeout values will be set so the user receives “a resource unavailable” message if this occurs

### Security

The password field is masked so the input cannot be read

### Usability / Accessibility

User must be able to view page in English, French and Spanish.

### Other

The UI must be able to be used over a range of platforms: PC, laptop, tablet, smart phone…

## Issues and Next Steps

* An encryption algorithm and salt must be selected and documented internally.
* A password policy must be determined

**Approvals**

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