# History of Edit

| # | Description | Date Modified | Author |
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|  | First Draft – Login Screen Usecase | 01/08/2021 | Sweta Kumari |
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# Background – Login Screen

Log-in screen is crucial because it enables hospitals to keep their networks secure by limiting data accessibility to the authenticated users. This is the default screen when Patient management system application loads. After completion of its user registration (one time), a user can log-in through login-screen. The log-in screen also shows options for registration and forgot / change password. Login Screen and user registration page both lies on the same default screen, where Login screen is placed in “Already a registered user” section; whereas user registration is placed in “New to CT General Hospital” section.

For first time login (For Nurses, Admin and Physician only) they should be automatically redirected to change password page.

Post 3 unsuccessful attempts the account will be locked and can be unlocked only by admin.

A login screen must be user friendly and secure

A login screen of the hospital management system should include

1. Username/email field
2. Password field
3. Forgot/change password link
4. Login button

# Out of Scope

1. Login via existing Social media/other account is out of scope
2. Log-in via security question-answer is out of scope
3. Show password option
4. Multiple device login is out of scope. The user is automatically logged out from previous device, after current login.
5. Keep me logged in option

# Assumptions

1. The name of the hospital is CT General Hospital.
2. Consecutive three unsuccessful login attempts will be considered as a safety threat
3. For security reasons, the change of password is compulsory after first login using default password (if applicable).
4. Provider side users (Physician, Nurse, and admin) and patients will use a common login screen.

# User Registration - Acceptance Criteria

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| # | Acceptance Criteria | Usecase Reference | Outstanding Items |
|  | Username/EmailID is a Distinct and mandatory field | 1.6.1 |  |
|  | Password is a mandatory field | 1.6.1 |  |
|  | Upon click of login button (after filling correct user credentials), user shall be able to successfully login, User details is accessible | 1.6.1 |  |
|  | Password is case sensitive, alphanumeric, with minimum length of 8 characters | 1.6.1 |  |
|  | Password is case sensitive, alphanumeric, with minimum length of 8 characters | 1.6.1 |  |
|  | Click on Forgot/change password button should direct towards Change Password Screen | 1.6.1 |  |
|  | Login of Physician, Nurses, Admin and Patient are possible using same login screen | 1.6.1 |  |
|  | For first time login (For Nurses, Admin and Physician only) they should be automatically redirected to change password page | 1.6.1 |  |
|  | Post 3 unsuccessful attempts the account will be locked and can be unlocked only by admin | 1.6.1 |  |

# Functional Use Case

# Login Screen for CT General Hospital Users

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| --- | --- | --- |
| **Sr. No.** | **Description:** | This use case describes the login functionality of an existing user (Provider/Patient) through login-screen. Login Screen and user registration page both lies on the same default screen, where Login screen is placed in “Already a registered user” section; |
| **A** | **Trigger:** | The user screen is placed in default screen of the web application |
| **B** | **Pre-Conditions/Inputs:** | The user login into the Patient Management application - using valid credentials.  Following details of user are available   * Username/email ID * Password   For first time login (For Nurses, Admin and Physician only) they should be automatically redirected to change password page. |
| **C** | **Post-Conditions/Outputs:** | 1. Successful login will redirect to User Details Screen 2. For first time login (For Nurses, Admin and Physician only) the user should be automatically redirected to change password page. 3. Post 3 unsuccessful attempts the account will be locked and can be unlocked only by admin |
| **D** | **Flow:** | 1. On visiting the Login in screen page, the User has following data fields under “Already a User” section  * Username/email field * Password field * Forgot/change password link * Login button      1. The user enters User name or email-ID on Username field 2. The user enters Password with data field specifications – Minimum 8 alphanumeric characters, with at least 1 number, 1 uppercase letter, and 1 lowercase letter 3. **Successful login -** The user clicks “Login” (submit) button.  * If user is Nurses, Admin or a Physician; AND if it is first login – Then the user will be automatically redirected to change password page * Otherwise, it will be redirected to User Details Screen  1. **Unsuccessful Login**: The user clicks “Login” (submit) button, but error message is generated due to incorrect credential.  * After first unsuccessful attempt to login due to wrong password, following error message shall be displayed to the user - “2 login attempts remaining” * After second unsuccessful attempt to login due to wrong password, following error message shall be displayed to the user - “1 login attempt is remaining” * After third unsuccessful attempt to login due to wrong password, following error message shall be displayed to the user - “Your account has been locked. Please contact the hospital administrator or call helpdesk on 123456 for more information.” * After third unsuccessful attempt the login button is disabled for the user, and on attempt to login, the following error message shall be displayed to the user - “Your account has been locked. Please contact the hospital administrator or call helpdesk on 123456 for more information.” |
| **E** | **Exceptions/Error Conditions:** | In an event of missing values, descriptive error message shall be displayed to the user, beside respective fields in red color.   1. If username or password field is left blank, then the following error message shall be displayed to the user   "This field cannot be empty"   1. "Username is not available - please select another username" 2. If 'Password' entry does not satisfy the specified criteria specified; and user hits Submit button, then the following error message shall be displayed to the user   "Password entry does not meet criteria"   1. If entries in 'Password' and 'Re-enter Password' do not match and user hits Submit, then the following error message shall be displayed to the user “Password entries don’t match” 2. After first unsuccessful attempt to login due to wrong password, following error message shall be displayed to the user   “2 login attempts remaining”   1. After second unsuccessful attempt to login due to wrong password, following error message shall be displayed to the user   “1 login attempt is remaining”   1. After third unsuccessful attempt to login due to wrong password, following error message shall be displayed to the user   “Your account has been locked. *Please contact the hospital administrator or call helpdesk on 123456 for more information.”* |
| **F** | **Assumptions:** | 1. There are only three categories of employee – Admin, Physicians and Nurses 2. There is only one Admin in the hospital |