# History of Edit

| # | Description | Date Modified | Author |
| --- | --- | --- | --- |
|  | First Draft – Change Password Usecase | 01/11/2021 | Sweta Kumari |
|  | First Draft – Forgot Password Usecase | 01/12/2021 | Sweta Kumari |
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# Background – Change Password Screen

**Change password** is an important feature that supports data security. However, change password is more of a precautionary feature than actual security.

The important components of change password screen are

1. Authenticate user through old password
2. Upon successful authentication, allow user to create new password.

The new password created by user should not be previously used, and should meet strong password criteria.

The change password screen will constitute the following

* Old Password
* New Password
* Confirm New Password
* Submit button

**Forgot password** provides a self-service option to users, and allow users who have either forgotten their password to authenticate alternatively. It allows the users to resolve their own problem, without calling the hospital help desk, to support their login. The forgot password should have following components

1. Forgot password option — Recover Password request

2. Specific action text on the button —Send default password on registered email

Upon login through default password sent over email, the user should be re-directed to change password screen.

# Out of Scope

1. User authentication via security question-answer is out of scope
2. User authentication via existing Social media/other account is out of scope
3. OTP based user authentication of scope

# Assumptions

1. The name of the hospital is CT General Hospital.
2. For security reasons, the change of password is compulsory after 45 days.
3. The new password created by user should not be previously used
4. New password should meet strong password criteria - Minimum 8 alphanumeric characters, with at least 1 number, 1 uppercase letter, and 1 lowercase letter
5. The default password for forgot password usecase is randomly generated and is valid for only 2 hours.

# User Registration - Acceptance Criteria

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| # | Acceptance Criteria | Usecase Reference | Outstanding Items |
|  | All of three Password fields are required field | 1.6.1 |  |
|  | New Password is case sensitive, minimum 8 alphanumeric characters, with at least 1 number, 1 uppercase letter, and 1 lowercase letter | 1.6.1 |  |
|  | Confirm new password field should accept value only if it is same as new Password field; otherwise prompt warning | 1.6.1 |  |
|  | Old password must be correct; otherwise prompt error on press of submit button | 1.6.1 |  |
|  | Entered password must be same as onetime password provided for email; otherwise prompt error on press of submit button | 1.6.2 |  |
|  | One-time password is valid only for two hours | 1.6.2 |  |

# Functional Use Case

# Change password screen

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| **Sr. No.** | **Description:** | This use case describes the change password functionality of an existing user (Provider/Patient) through user account or external link. Change password can be voluntarily requested through user account settings tab. It can also be accessed via external link provided over user email address. The user is redirected to change password tab, whenever user login using a default password provided to user during user registration or through forgot password functionality. |
| **A** | **Trigger:** | 1. Click of Change password tab in the user account settings tab. 2. Click of reset password link available on users email id 3. Whenever a user logs in with a default password    * First login of hospital employees after user registration    * First login of an existing user (Provider/Patient) using a default password provided to the after completion of forgot password usecase |
| **B** | **Pre-Conditions/Inputs:** | 1. The user changes passwords in change password screen - using valid credentials.   Following details of user are available   * + Old Password   + A new password that meets password criteria (Not used before by the same user, minimum 8 alphanumeric characters, with at least 1 number, 1 uppercase letter, and 1 lowercase letter)  1. For first time login (For Nurses, Admin and Physician only) they should be automatically redirected to change password page. 2. After Forgot password functionality, upon login through default password sent over email, the user should be re-directed to change password screen. |
| **C** | **Post-Conditions/Outputs:** | Upon completion of the change password usecase, the user shall be able login into the Patient Management application - using following credentials.   * Username/email ID * New Password |
| **D** | **Flow:** | 1. On visiting the change password screen page, the User has following data fields under change password section    * Old Password field    * New password field    * Confirm new password field      1. The user enters old password in its respective text box 2. The user enters new password, which was not previously used by him/her; with data field specifications – Minimum 8 alphanumeric characters, with at least 1 number, 1 uppercase letter, and 1 lowercase letter 3. **Successful change of password -** The user clicks “change password” (submit) button.    * The page appears with a success message e.g. “Your password has been successfully updated. You may now login your account”    * Then, User will be redirected to User Login Screen through a login link available on the same message page 4. **Unsuccessful Login**: The user clicks “change password” (submit, but error message is generated due to incorrect credential.    * After first two unsuccessful attempt to change password with incorrect old password, following error message shall be displayed to the user - “Kindly provide correct old password”    * After third unsuccessful attempt to change password due to incorrect old password, following error message shall be displayed to the user - “Your account has been locked for next 24 hours for security purpose. Please contact the hospital administrator or call helpdesk on 123456 for more information.”    * After third unsuccessful attempt the change password button is disabled for the user, and on next attempts to change password, 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 old password field is left blank, then the following error message shall be displayed to the user   "This field cannot be empty"   1. 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 'New Password' and ‘Confirm New 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 two unsuccessful attempt to login due to wrong password, following error message shall be displayed to the user   “Kindly provide correct old password”   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 for next 24 hours for security purpose. Please contact the hospital administrator or call helpdesk on 123456 for more information.*”* |
| **F** | **Assumptions:** | Password field is masked field |

# Forgot password

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| **Sr. No.** | **Description:** | This use case describes the forgot password functionality of an existing user (Provider/Patient) on login screen page. Forgot password can be voluntarily requested through forgot password button. The user is redirected to change password tab, after completion of forgot password functionality. |
| **A** | **Trigger:** | 1. Click of Forgot password tab in the user login screen. |
| **B** | **Pre-Conditions/Inputs:** | 1. The user has access to his/her registered email account 2. Following password is available to user    * A new password that meets password criteria (Not used before by the same user, minimum 8 alphanumeric characters, with at least 1 number, 1 uppercase letter, and 1 lowercase letter) |
| **C** | **Post-Conditions/Outputs:** | Upon completion of the forgot password usecase, the user shall be able login into the Patient Management application - using following credentials.   * Username/email ID * One Time Password (provided to user over his/her mail) |
| **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 password link    * Login button      1. The user clicks forgot password button 2. An automated email is sent to user’s registered email address, that contains a one-time password, link to rest the password, and instructions to reset the password. 3. Upon clicking link to reset the password, the user is redirected to user login screen with following options    * Username/email field    * Password field    * Login button 4. The user enters User name or email-ID on Username field 5. The user enters One-time Password in the respective field 6. **Successful login -** The user clicks “Login” (submit) button.    * User will be redirected to Change Password Screen 7. **Unsuccessful Login**: The user clicks “Login” (submit) button, but error message is generated due to incorrect credential.    * After unsuccessful attempt to login due to wrong one-time password, following error message shall be displayed to the user –   “Please enter the password provided to you on your registered email address”   1. An Exit option is available, that upon click - redirects the user to CT general hospital’s homepage. |
| **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 field is left blank, then the following error message shall be displayed to the user   "This field cannot be empty"   1. If entries in Password' do not match one-time password and user hits login button, then the following error message shall be displayed to the user “Please enter the password provided to you on your registered email address” |
| **F** | **Assumptions:** | 1. One time password is valid for two hours, after its generation by admin |