**Pseudo Code for User Story ID 2**

**User Story:** As a user, I want the ability to reset my password so that I can maintain secure access to the system and ensure my credentials are up to date.

**Pseudo Code:**

BEGIN

Class UserPasswordReset:

Method forgetPassword(request: Request)

Steps:

1. Redirect user to forget password page
2. User enters the registered email
3. If email is not registered:

Show error "This Email ID is not registered with us. Please enter the correct email address."

Else:

Generate password token with 24-hour expiry

Send mail to user with password setup link containing the token

Method ValidateToken (request: Request)

Steps:

1. Extract token from the request
2. If token is not valid or expired:

Show error “Token is invalid or expired. Try again”

Else:

Show the password setup page containing:

New Password

Confirm New Password

Method SubmitNewPassword(request:Request)

Steps:

1. Extract NewPassword and ConfirmNewPassword
2. If NewPasswowrd != ConfirmNewPassword  
   Show error “New password and confirm password do not match. Please try again”

Else

Update Password for the User

Invalidate the token

Redirect to login page

Method ProfileDropdown(request:Request)

Steps:

1. User clicks on the profile icon
2. Show dropdown with option:

Change Password

Logout

Method ChangePasswordPage(request: Request)

Steps:

1. Redirect user to change password page
2. Show fields:

Current Password

New Password

Confirm New Password

Method SubmitChangedPassword (request: Request)

Steps:

1. Extract CurrentPassword, NewPassword and ConfirmNewPassword
2. If CurrentPassword is incorrect:

Show error: “The current Password you entered is incorrect. Please try again!”

Else:

If NewPassword != ConfirmNewPassword

Show error: “The password do not match try again!”

Else:

Update password for the user

Log out user

Redirect to the login page

Method LoginPage(request:Request):

Steps:

1. Extract email and password
2. Verify the credentials:

If inavalid:

Show error: “Invalid email or password”

Else:

Give access to the system

END

Test Scenarios:

1. User clicks on “Forget Password?” -> Should be redirected to the Forget Password Page.
2. User enters unregistered email -> Should show error “This Email ID is not registered…”
3. User enters registered email -> Receive email with 24-hour valid reset link
4. User clicks on expired/invalid token link-> Shor error: “Link is invalid or expired”
5. User clicks on valid token link -> Redirect to Password Setup Page
6. New and confirm password mismatch -> Show error: “Password do not match..”
7. New and confirm password match -> Updates password for the user, invalidate the token and redirect to the login page
8. Logged in user opens profile -> show dropdown with change password and logout option
9. User clicks change password -> Redirect to change password page with Current password, new password and confirm password fields.
10. Incorrect current password -> show error: “The entered current password is wrong….”
11. New and confirm password mismatch -> show error: “The password does not match”
12. All inputs valid -> update password, logout user and redirect to the login page
13. Invalid login credentials -> show error: “Email ID or password is invalid”
14. All valid login credentials -> Give access to the system