



User Manual Two Factor Authentication (MEMBER PORTAL)



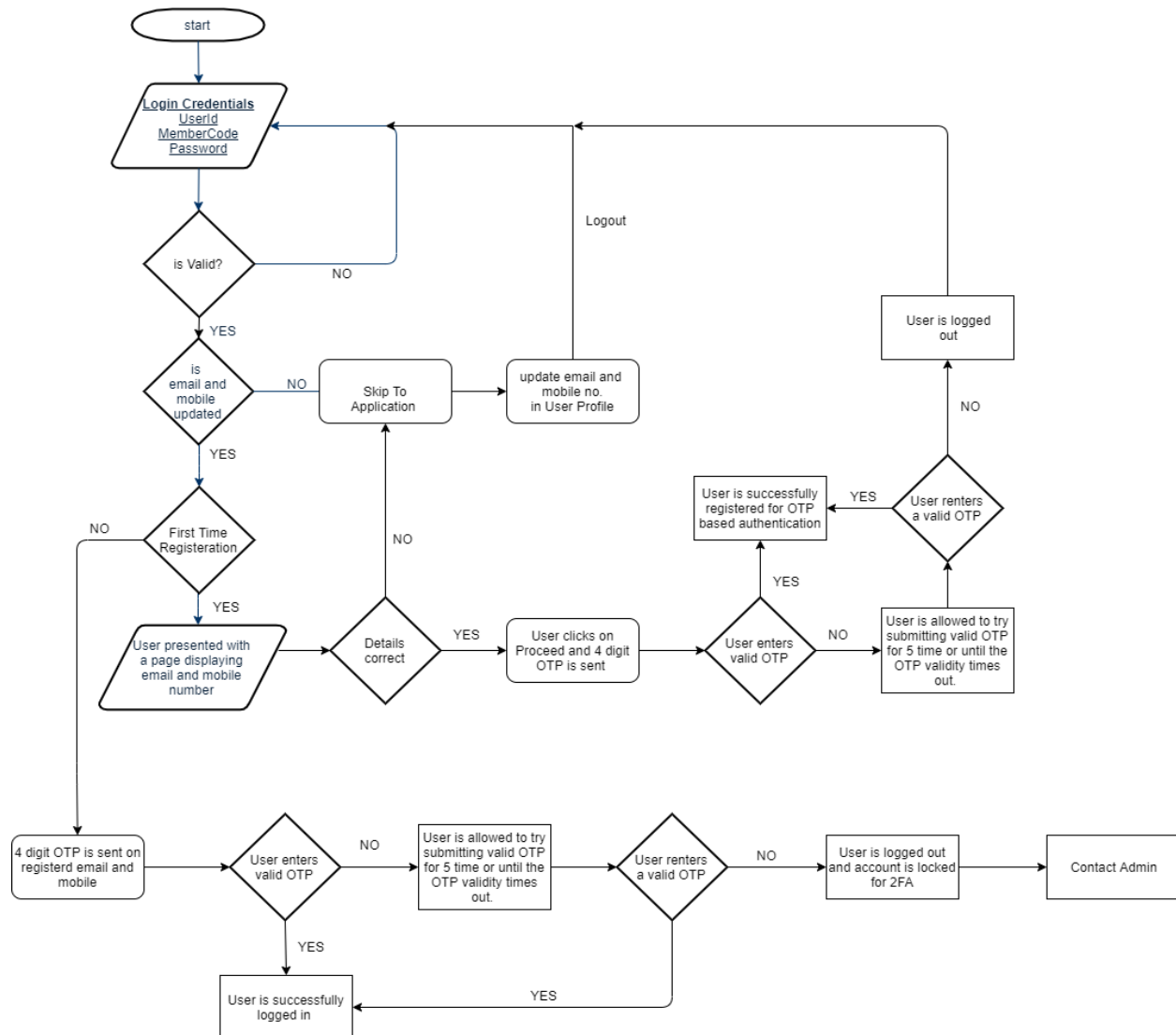
Two Factor Authentication (2FA) - Introduction

As per the requirements of SEBI Cyber Security and Cyber Resilience Framework circular CIR/MRD/DP/13/2015 dated 06 July 2015, 2FA at log-in should be implemented for all users that connect using online / internet facility.

2FA is a security process in which the user provides two means of identification from separate categories of credentials. The purpose of this utility is to support 2FA for increased security and to protect against cyber threats and security attacks.



2FA Flow Diagram





First Level Login Validation

1. The existing users shall use their existing login id and password.
2. On invoking the application, the user shall be prompted to enter the Member Code (Trading Member Code) and the User id (Login Id) and Login Password and system generated CAPTCHA.
3. If the login password is incorrect, the user shall have three attempts to punch in the correct password, failing which his user id shall be blocked. In this case, the user has to contact the Admin.
4. In case, the login password entered is correct, then the user shall be prompted to change his login password. All validations currently applicable for both these passwords shall hold true in this scenario as well.
5. Once the password is successfully changed or after successful login, the user shall be directed to the 2FA authentication screen.

Note: The above login workflow can be different for individual application interfaces.

Second level validation (2FA)

This screen shall appear post successful first level login authentication.

1. In case the user is logging in for the first time for OTP based 2FA , if Email and Mobile No. are not present in Member Portal then the user can use 'Skip To Application' and update the same in User Profile.
2. Once Email and Mobile no. are updated in member Portal, on subsequent login, One Time Registration page shall be opened with non-editable Email and Mobile No of the user. User needs to register for OTP by clicking on 'Proceed' button.
3. Four digits One Time Password (OTP) shall be sent to registered email and mobile number.
4. User needs to enter One Time Password (OTP) provided and shall click on 'Proceed' button for verification.
5. After successful verification, user will be logged in successfully.
6. In case verification fails, user shall be allowed to try submitting a valid OTP, for maximum of 5 times or until OTP validity times-out of 15 minutes, whichever is earlier. Else user shall be logged out.
7. In case the user has performed one time registration, on subsequent login, One Time Password (OTP) shall be sent on the registered email and mobile number.
8. User needs to enter One Time Password (OTP) provided and shall click on 'Proceed' button for verification.
9. After successful verification, user will be logged in successfully.



10. In case verification fails, user shall be allowed to try submitting a valid OTP, for maximum of 5 times or until OTP validity times-out of 15 minutes, whichever is earlier. Else user shall be logged out and shall be locked

Steps for setting 2FA

1. Use the existing screen and credentials to Log-in to application.
2. On first login, if Email and Mobile No. are not registered.

The screenshot shows the 'One Time Registration' screen. It has two input fields: 'Email ID' (with placeholder 'Email Id') and 'Mobile Number' (with placeholder 'Mobile No.'). Below these are 'Proceed' and 'Skip to application' buttons. A modal dialog box titled 'NSE' is open, displaying the text: 'Please update Email ID and Mobile Number. Kindly update the details through User profile or contact your Administrator.' with an 'OK' button.

One Time Registration

Email ID
Email Id

Mobile Number
Mobile No.

Proceed Skip to application

NSE

Please update Email ID and Mobile Number. Kindly update the details through User profile or contact your Administrator.

OK

One Time Registration

Email ID
Email Id

Mobile Number
Mobile No.

Proceed Skip to application

1. As one time registration activity, kindly confirm/update your official email address and mobile number. Kindly update the details through User profile or contact your Administrator.
2. After you click on 'Proceed', a One Time Password (OTP) shall be sent to your email address and mobile number, for verification of the details.
3. After successful registration, every time you login, a One Time Password (OTP) shall be sent on the registered email address and mobile number provided on this page.
4. In case you need to change/ update your email address/ mobile number, kindly update the details through User profile or contact your Administrator.

3. If Email and Mobile No are present in Member Portal

The screenshot shows the 'One Time Registration' screen with the 'Email ID' field pre-filled with 'test@gmail.com' and the 'Mobile Number' field pre-filled with '+911234567890'. The 'Proceed' and 'Skip to application' buttons are at the bottom. To the right, a list of instructions is visible.

One Time Registration

Email ID
test@gmail.com

Mobile Number
+911234567890

Proceed Skip to application

1. As one time registration activity, kindly confirm/update your official email address and mobile number. Kindly update the details through User profile or contact your Administrator.
2. After you click on 'Proceed', a One Time Password (OTP) shall be sent to your email address and mobile number, for verification of the details.
3. After successful registration, every time you login, a One Time Password (OTP) shall be sent on the registered email address and mobile number provided on this page.
4. In case you need to change/ update your email address/ mobile number, kindly update the details through User profile or contact your Administrator.

** On clicking skip the user shall be directed to existing home page of application.*



- On “Proceed”, the user shall be shown the next page to enter the OTP that is sent to the registered email and mobile number that the user entered on the previous screen.

- On entering the correct OTP, the user is redirected to the application home screen.



- For all subsequent login attempts OTP screen will be displayed.