EXTRANET API

User manual for API registration

Key Points:

1. Members have to first register for API on Member Portal

   Production URL: (https://ims.connect2nsccl.com/MemberPortal)

   Note: If the member has 10 users under him, then all the 10 users have to perform the steps mentioned in the user manual for self-user generation / maintenance for Extranet API in Production

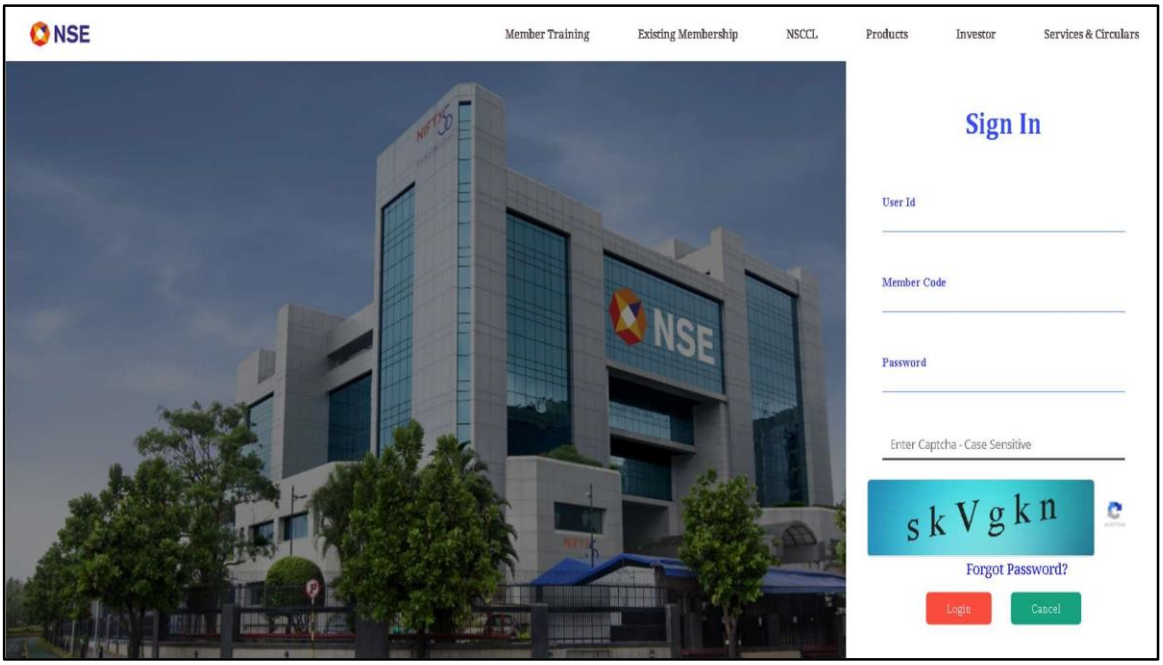
2. Password has to be encrypted with secret key. Secret key will be received in mail after successful registration.

PART A: REGISTRATION FOR API

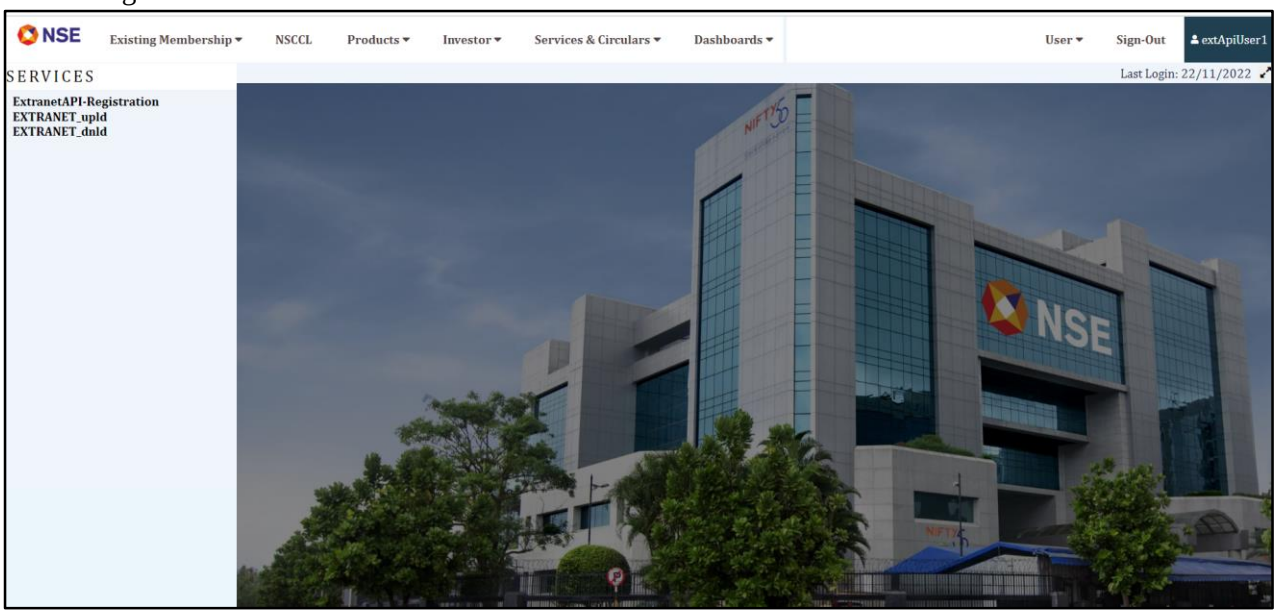
1. Details of member registration are as under:
   URL: https://ims.connect2nsccl.com/MemberPortal

   User Id: Member User ID
   Member Code: 5 digit Member Code
   Password: Member Password

   If first time login, members will have to change the password and re-login with new password. For first time login on member portal, OTP will be sent on registered mobile number or email id. Once correct OTP is entered user will be logged in successfully.

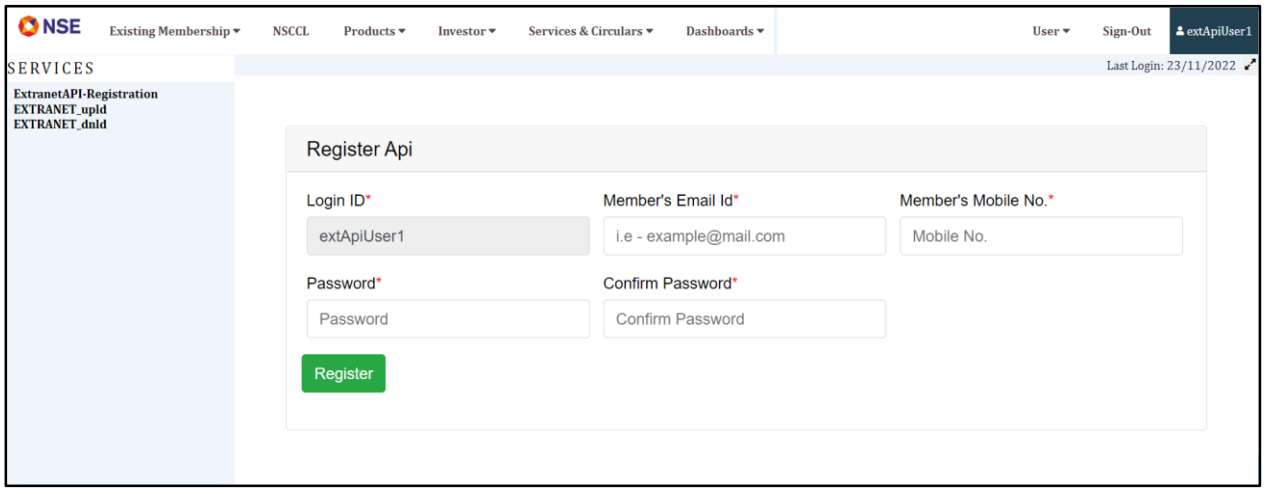


2. After successfully login, on left hand corner click on “ExtranetAPI-Registration” tab and proceed for API registration.



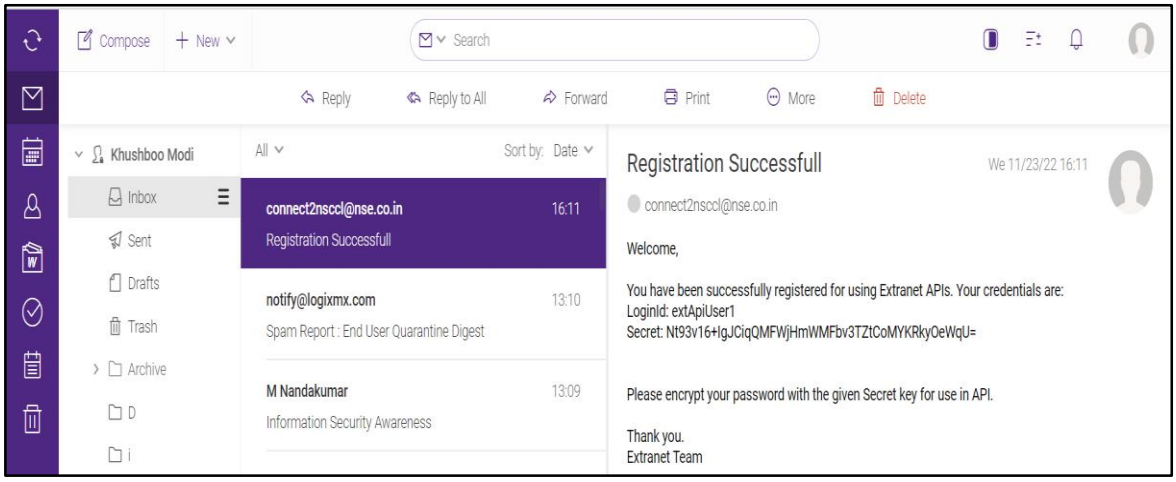
3. After clicking the “Extranet API-Registration” button the member will have to submit the following information in Registration form.

Sr. No.	Field	Validation points
1	Login Id	It will be auto-populated and will be same as the Member User ID
2	Member’s Email Id	Member’s Email Id and should be a valid email id.
3	Member’s Mobile No.	Mobile number Character (10) and should start with 9, 8 or 7 only.
4	Password	Characters (12) (At least one capital character, one small character, one numeric and one special character from @,#,$,%,^,&,*,=)
5	Confirm Password	Should be same as the Password



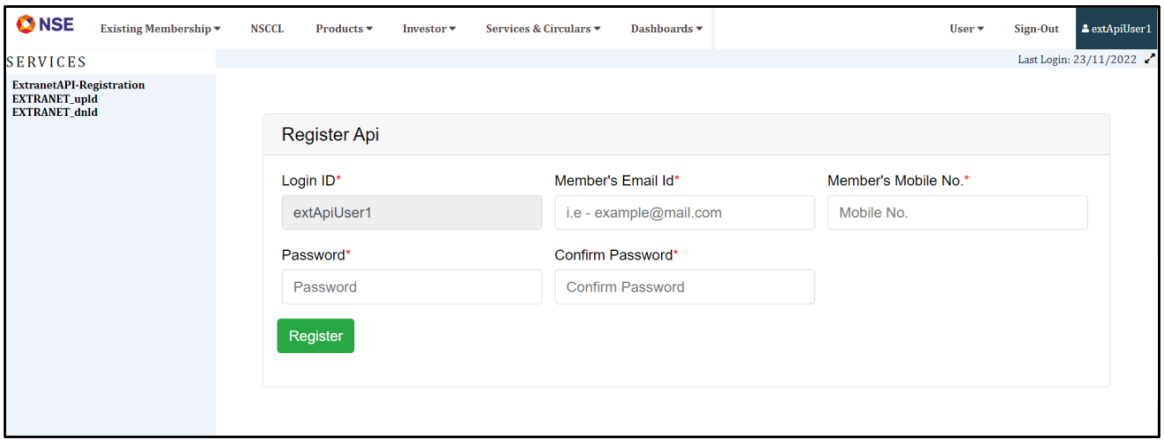
After providing inputs for the information sought, click on “Register” button. If all details provided are valid then Registration will be successful and user will be directed to a page confirming the registration.

Also, after successful registration, member will receive an e-mail, on the e-mail address provided by Member while registration, which contains Login Id, Password, and Secret key.



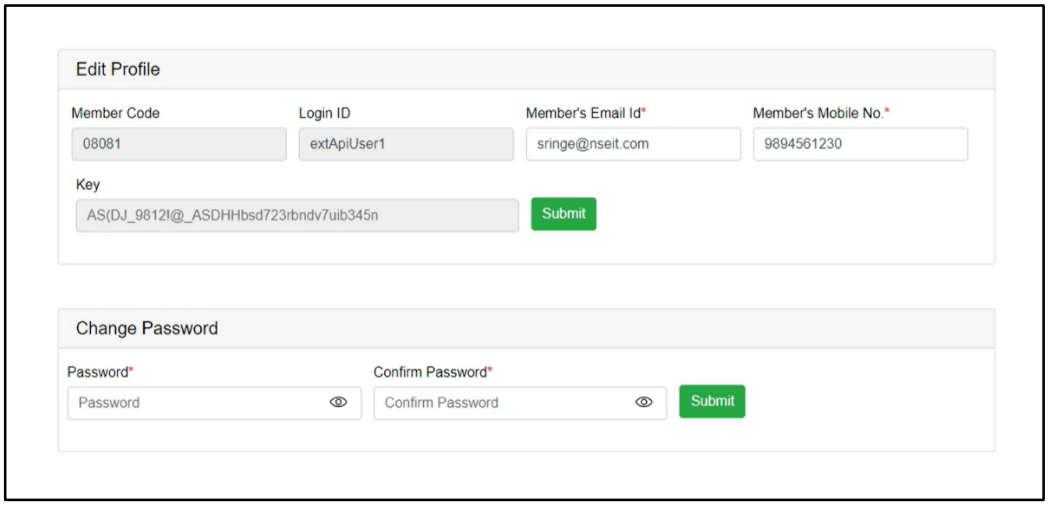
4. In case the user is not registered then on clicking the ExtranetAPI-Registration” button system will direct the user to the Registration page

ExtranetAPI-Registration → Register Api



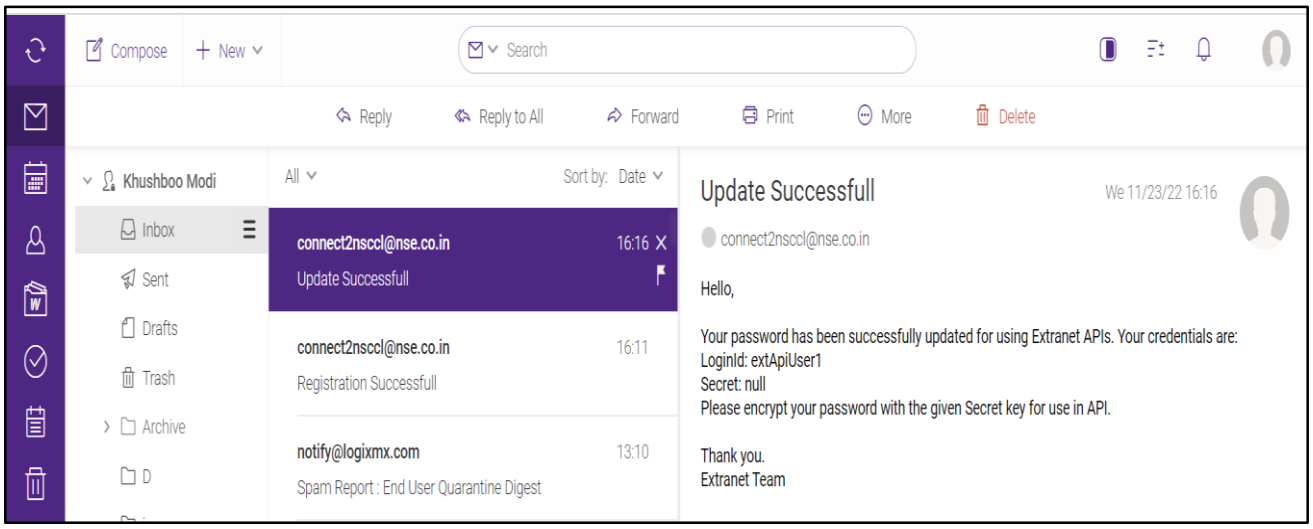
Once a member is registered the Member can view the profile by clicking “ExtranetAPI-Registration” button, which will redirect the member to the Profile page.

ExtranetAPI-Registration → Edit Profile



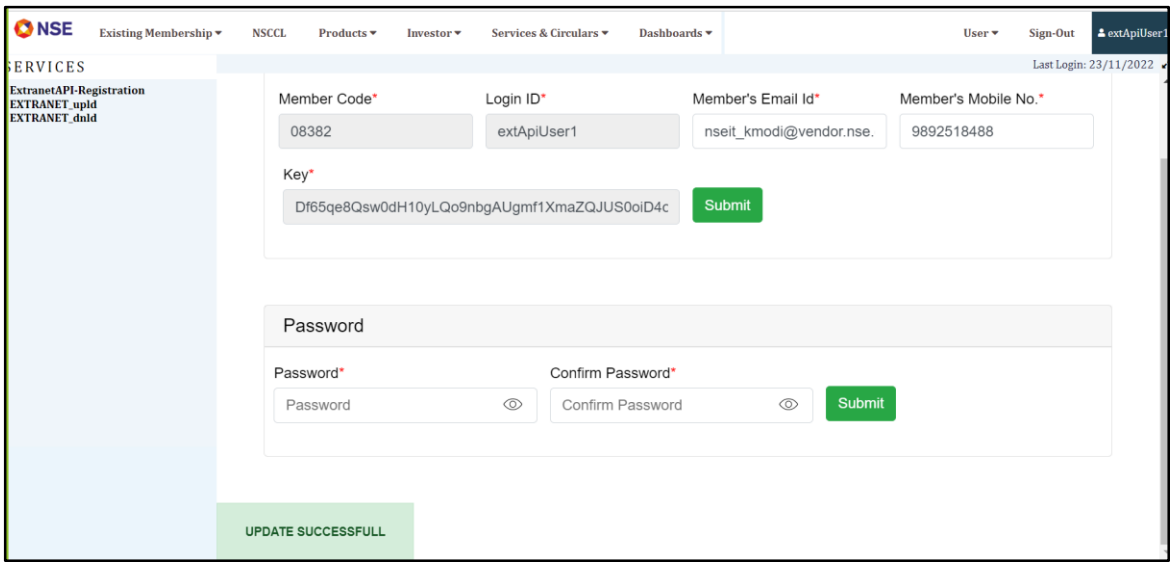
5. User can reset the Password, by entering the new Password and Confirm Password and clicking on Submit button.

If password reset then an email will go to the user intimating him that his password has been reset.



6. User can update the Member's Email id and Member's Mobile no and click on Submit.

On successfully editing the email id and mobile no system will display message as 'Update Successful'.



7. User has to encrypt its raw password by using secret key. This encrypted password needs to be used while calling login API. Java and .Net Code Snippet of AES encryption is added at the end of the document.

PART B: API End Points

1. Login:
   https://www.connect2nse.com/extranet-api/login/{version}
   e.g.: https://www.connect2nse.com/extranet-api/login/1.0

2. Logout
   https://www.connect2nse.com/extranet-api/logout/{version}
   e.g.: https://www.connect2nse.com/extranet-api/logout/1.0

3. Get Member Files/Folders
   https://www.connect2nse.com/extranet-api/member/content/{version}
   e.g.: https://www.connect2nse.com/extranet-api/member/content/1.0

4. Download File
   https://www.connect2nse.com/extranet-api/member/file/download/{version}
   e.g.: https://www.connect2nse.com/extranet-api/member/file/download/1.0

5. Get Common File/Folders
   https://www.connect2nse.com/extranet-api/common/content/{version}
   e.g.: https://www.connect2nse.com/extranet-api/common/content/1.0

6. Download Common File
   https://www.connect2nse.com/extranet-api/common/file/download/{version}
   e.g.: https://www.connect2nse.com/extranet-api/common/file/download/1.0

8. AES Code Snippet [Java] public class CodeSnippet
{
public static void main(String[] args) throws UnsupportedEncodingException,
NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException,
IllegalBlockSizeException, BadPaddingException
{
```
        //Plain Text Password
        String password = "Nseitjan@123";

        //sample key is - "XBaNb0xmK2TNRIfcHA3F306Oi14HWAeYmtUd0qRheTc="
        String key = "XBaNb0xmK2TNRIfcHA3F306Oi14HWAeYmtUd0qRheTc=";
        //Key is converted to byte array
        byte[] keyByteArray = new Base64().decode(key.getBytes("UTF-8"));

        //SecretKeySpec is used to construct a SecretKey from a byte array
        SecretKeySpec secretkeySpec = new SecretKeySpec(keyByteArray, "AES");
        Cipher cipher = Cipher.getInstance("aes/ecb/pkcs5padding");
        cipher.init(Cipher.ENCRYPT_MODE, secretkeySpec);

        //pass plain text that is to be encrypt
        String encrypt = (new Base64()).encodeAsString(cipher.doFinal(password.getBytes()));


        //actual key in base64 format
        System.out.println("encrypted string:" +
encrypt); }
}
```

9. AES Code Snippet [.Net] using System; using System.Security.Cryptography; using System.Text;

```
namespace AES256{ class Program{ private static string getString(byte[] b)
{
return Encoding.UTF8.GetString(b);
}
static void Main(string[] args){
byte[] data = Encoding.UTF8.GetBytes("NseitJan@201");
byte[]a = Convert.FromBase64String("AAECAwQFBgcICQoLDA0ODw==");
Console.WriteLine("Key : {0}",
getString(a)); byte[] enc = Encrypt(data, a);
string result =
Convert.ToBase64String(enc);
Console.WriteLine("Encrypted text",
result); byte[] dec = Decrypt(enc, a);
Console.WriteLine("Encrypted : {0}", getString(enc));
Console.WriteLine("Decrypted : {0}", getString(dec));
// Console.ReadKey();
} public static byte[] Encrypt(byte[] data, byte[] key){ using (RijndaelManaged csp = new RijndaelManaged())
{ csp.KeySize = 256;
csp.BlockSize = 128; csp.Key =
key; csp.Padding =
PaddingMode.PKCS7; csp.Mode =
CipherMode.ECB;
CryptoTransform encrypter = csp.CreateEncryptor();
return encrypter.TransformFinalBlock(data, 0,
data.Length);
} } private static byte[] Decrypt(byte[] data, byte[] key){ using (RijndaelManaged csp = new RijndaelManaged())
{ csp.KeySize = 256;
csp.BlockSize=128; csp.Key =
key; csp.Padding =
PaddingMode.PKCS7; csp.Mode =
CipherMode.ECB;
CryptoTransform decrypter = csp.CreateDecryptor();
return decrypter.TransformFinalBlock(data, 0,
data.Length);
}
}
}
}
```

Technology Used:

Language: - java version "11.0.12" 2021-07-20 LTS