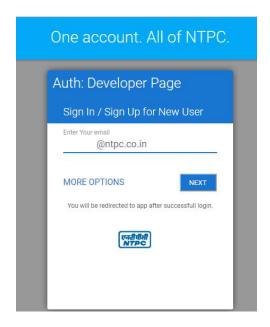
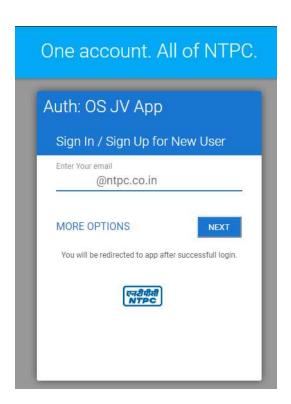
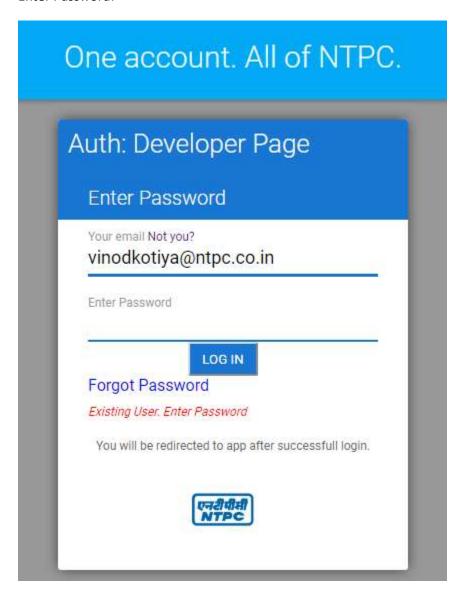
Login / Sign Up Screen



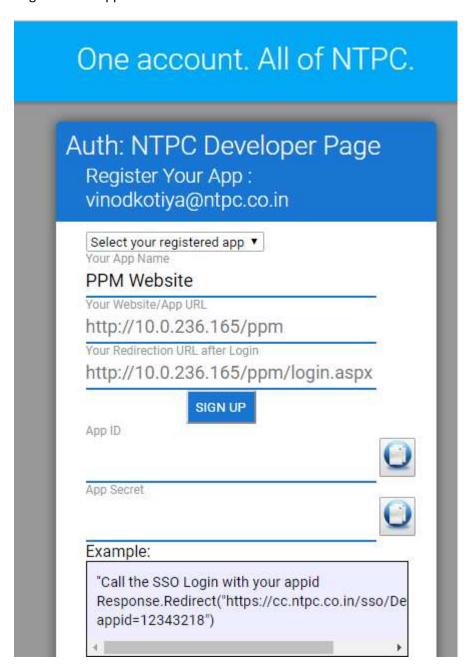




Enter Password:

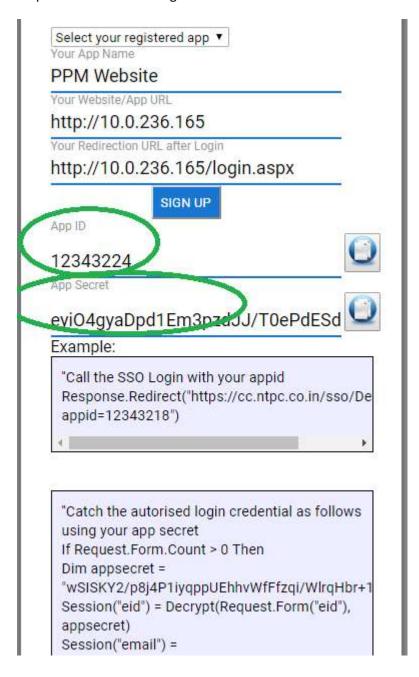


Register Your App:

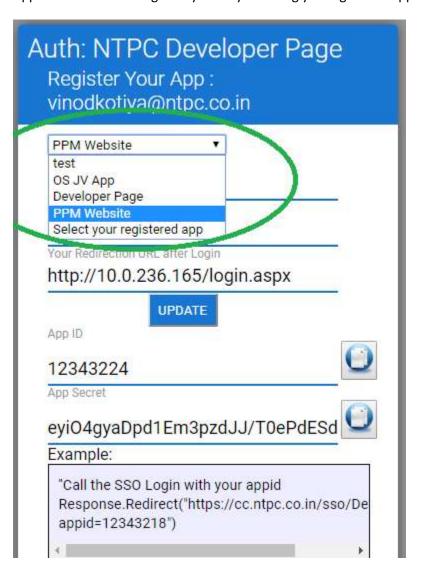


It will generate App ID & App Secret for your App. You have to keep it with your self.

App ID shall be used for calling SSO Login Page and App secret will be used to decrypt the email id and Emp no after succesfull login.



App secret can be changed anytime by selecting you registered app from Drop Down.



User registration through OTP on email & SMS



On Sign up it verify with OTP sent on email / phone on first login attempt:



```
Login request:
"Call the SSC
Response.Re
```

"Call the SSO Login with your appid Response.Redirect("https://cc.ntpc.co.in/sso/Default.aspx?appid=12343218")

Catch Authentication credential after login:

```
"Catch the autorised login credential as follows using your app secret If Request.Form.Count > 0 Then

Dim appsecret = "wSISKY2/p8j4P1iyqppUEhhvWfFfzqi/WhhlrqHbr+1rQ="
Session("eid") = Decrypt(Request.Form("eid"), appsecret)

Session("email") = Decrypt(Request.Form("email"), appsecret)

End If
```

Decryption function using App Secret:

```
Imports System.Security.Cryptography
Public Shared Function Decrypt(cipherText As String, ByVal EncryptionKey As String As
String
        'If System.Web.HttpRuntime.Cache("marks" & cipherText) Is Nothing Then
        Dim cipherBytes As Byte() = Convert.FromBase64String(cipherText)
        Using encryptor As Aes = Aes.Create()
            Dim pdb As New Rfc2898DeriveBytes(EncryptionKey, New Byte() {&H49, &H76,
&H61, &H6E, &H20, &H4D,
            &H65, &H64, &H76, &H65, &H64, &H65,
            &H76})
            encryptor.Key = pdb.GetBytes(32)
            encryptor.IV = pdb.GetBytes(16)
            Using ms As New MemoryStream()
                Using cs As New CryptoStream(ms, encryptor.CreateDecryptor(),
CryptoStreamMode.Write)
                    cs.Write(cipherBytes, 0, cipherBytes.Length)
                    cs.Close()
                End Using
                cipherText = Encoding.Unicode.GetString(ms.ToArray())
            End Using
        End Using
           System.Web.HttpRuntime.Cache.Insert("marks" & cipherText, cipherText, Nothing,
DateTime.Now.AddHours(12.0), TimeSpan.Zero)
        'End If
        Return cipherText
   End Function
```

PHP Equivalent: