```csharp
1 using System;
2 using System.Collections.Generic;
3 using System.Data.SqlClient;
4 using System.Linq;
5 using System.Text;
6 using System.Threading.Tasks;
7 using System.Windows;
8 using System.Windows.Controls;
9 using System.Windows.Data;
10 using System.Windows.Documents;
11 using System.Windows.Input;
12 using System.Windows.Media;
13 using System.Windows.Media.Imaging;
14 using System.Windows.Navigation;
15 using System.Windows.Shapes;
16
17 namespace QuiddichV2._0
18 {
19     /// <summary>
20     /// Interaction logic for NewUser.xaml
21     /// </summary>
22     public partial class NewUser : Page
23     {
24         public User user;
25         Login login = new Login();
26
27         public NewUser()
28         {
29             InitializeComponent();
30         }
31
32         private void btnCreateUser_Click(object sender, RoutedEventArgs e)
33         {
34             user = new User();
35             this.PutUserData(user);
36             try
37             {
38                 if(isValidData())
39                 {
40                     QuiddichDB.AddUser(user);
41                     NavigationService.Navigate(login);
42                     MessageBox.Show("User " + txtUsername.Text + " created sucessfully!", "User Created ↵
    ");
43                 }
44                 else if(txtUsername.Text == "")
45                 {
46                     MessageBox.Show("Please enter a username.", "Invalid Username", MessageBoxButton.OK ↵
    , MessageBoxImage.Error);
47                 }
48                 else if(txtPassword.Password == "")
49                 {
50                     MessageBox.Show("Please enter a password.", "Invalid Password", MessageBoxButton.OK ↵
    ,MessageBoxImage.Error);
51                 }
52                 else if(txtPassword.Password != txtConfirmPassword.Password)
53                 {
54                     MessageBox.Show("Passwords must match.", "Passwords Not Matching", MessageBoxButton ↵
    .OK, MessageBoxImage.Error);
55                 }
56
57             }
58             catch(SqlException ex)
59             {
60                 if (ex.Number == 2627)
61                 {
62                     MessageBox.Show("User already exists in database.",
```

```
 63                              "Duplicate User", MessageBoxButton.OK, MessageBoxImage.Error);
 64                      }
 65                  }
 66              catch (Exception ex)
 67              {
 68                  MessageBox.Show(ex.Message, ex.GetType().ToString());
 69              }
 70          }
 71
 72          private void btnCancel_Click(object sender, RoutedEventArgs e)
 73          {
 74
 75              NavigationService.Navigate(login);
 76
 77          }
 78
 79          private void PutUserData(User user)
 80          {
 81              user.Username = txtUsername.Text;
 82              user.Password = txtPassword.Password;
 83          }
 84
 85          private void PasswordBox_PasswordChanged(object sender, RoutedEventArgs e)
 86          {
 87              String password = txtPassword.Password;
 88              PasswordScore passwordStrengthScore = PasswordAdvisor.CheckStrength(password);
 89
 90              switch (passwordStrengthScore)
 91              {
 92                  case PasswordScore.Blank:
 93                      break;
 94                  case PasswordScore.VeryWeak:
 95                      lblPasswordStrength.Content = "Very Weak";
 96                      break;
 97                  case PasswordScore.Weak:
 98                      lblPasswordStrength.Content = "Weak";
 99                      break;
100                  case PasswordScore.Medium:
101                      lblPasswordStrength.Content = "Medium";
102                      break;
103                  case PasswordScore.Strong:
104                      lblPasswordStrength.Content = "Strong";
105                      break;
106                  case PasswordScore.VeryStrong:
107                      lblPasswordStrength.Content = "Very Strong";
108                      break;
109              }
110          }
111
112          private bool isValidData()
113          {
114              bool valid = false;
115
116              if(txtUsername.Text != ""
117                && txtPassword.Password == txtConfirmPassword.Password
118                && txtPassword.Password != "")
119              {
120                  valid = true;
121              }
122
123              return valid;
124
125          }
126
127      }
128 }
```

129