//пример 1

interface IView

{

string GetUser();

string GetPassword();

void UpdateUsers(List<string> users);

void ShowMessage(string message);

event EventHandler<EventArgs> UpdateUserList;

event EventHandler<EventArgs> TryLogin;

}

class Model

{

public Dictionary<string, string> UsersAndPasswords { get; set; }

public List<string> Users

{

get { return UsersAndPasswords.Keys.ToList<string>(); }

}

public Model()

{

UsersAndPasswords = new Dictionary<string, string>();

UsersAndPasswords.Add("User1", "Password1");

UsersAndPasswords.Add("User2", "Password2");

UsersAndPasswords.Add("User3", "Password3");

UsersAndPasswords.Add("User4", "Password4");

UsersAndPasswords.Add("User5", "Password5");

}

public string TryToLogin(string user, string password)

{

if (UsersAndPasswords.ContainsKey(user))

{

int index = UsersAndPasswords.Keys.ToList<string>().IndexOf(user);

if (UsersAndPasswords.Values.ToList<string>()[index].Equals(password))

{

return "Login Successful!";

}

}

return "Login Failed.";

}

}

class Presenter

{

private IView view;

private Model model;

public Presenter(IView newView)

{

view = newView;

model = new Model();

view.UpdateUserList += new EventHandler<EventArgs>(UpdateUsers);

view.TryLogin += new EventHandler<EventArgs>(Login);

}

private void UpdateUsers(object sender, EventArgs e)

{

view.UpdateUsers(model.Users);

}

private void Login(object sender, EventArgs e)

{

string loginResult = model.TryToLogin(view.GetUser(), view.GetPassword());

view.ShowMessage(loginResult);

}

}

public partial class Form1 : Form, IView

{

public Form1()

{

InitializeComponent();

}

string IView.GetUser() { return textBox1.Text; }

string IView.GetPassword() { return maskedTextBox1.Text; }

void IView.UpdateUsers(List<string> users)

{

listBox1.Items.Clear();

foreach (var user in users)

listBox1.Items.Add(user.ToString());

}

public void ShowMessage(string message)

{

MessageBox.Show(message, "Login Result", MessageBoxButtons.OK);

}

private void View\_Load(object sender, EventArgs e)

{

UpdateUserList(sender, e);

}

private void button1\_Click(object sender, EventArgs e)

{

TryLogin(sender, e);

}

public event EventHandler<EventArgs> UpdateUserList;

public event EventHandler<EventArgs> TryLogin;

}

static void Main()

{

Application.EnableVisualStyles();

Application.SetCompatibleTextRenderingDefault(false);

Form1 f1 = new Form1();

Presenter pr = new Presenter(f1);

Application.Run(f1);

}