

Лабораторная работа № 5 Использование Silverlight-форм в web-приложениях	Студент, группа	Голубев А. В.
	Дата выполнения	
	Подпись	
	Дата отчёта	
	Оценка	
	Подпись	

Цель работы: получение общих сведений о технологии Silverlight, получение практических навыков создания web-приложений, использующих Silverlight-формы.

Задачи:

1. Создать базу данных согласно заданию
2. Создать Silverlight-форму для отображения данных из БД
3. Создать ASP.NET приложение, в котором используется Silverlight-форма

Скриншоты:

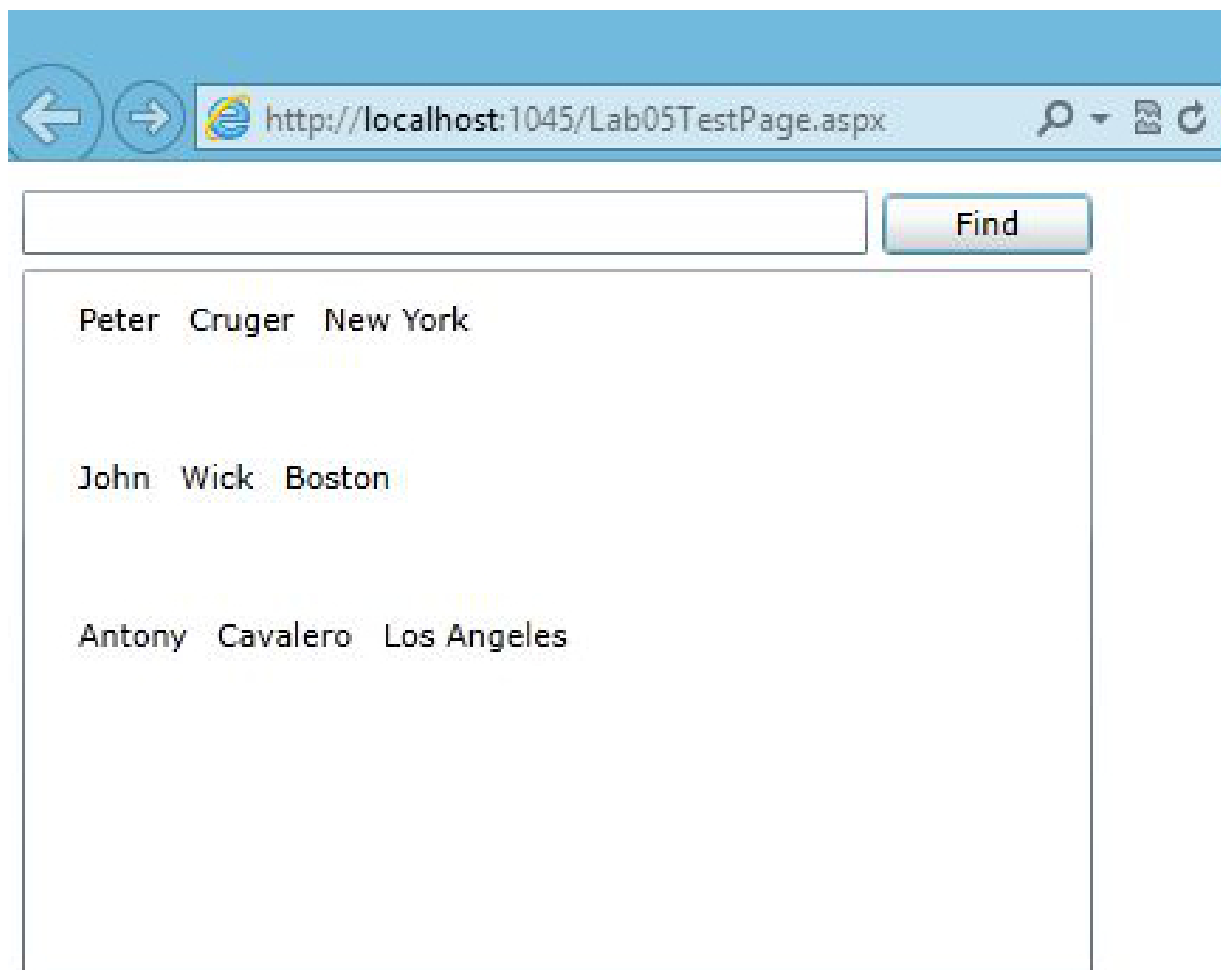


Рисунок 1 — Главная страница с Silverlight-формой

Исходный код:

Главная страница

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Net;
5 using System.Windows;
6 using System.Windows.Data;
7 using System.Windows.Controls;
8 using System.Windows.Documents;
9 using System.Windows.Input;
10 using System.Windows.Media;
11 using System.Windows.Media.Animation;
12 using System.Windows.Media.Imaging;
13 using System.Windows.Shapes;
14 using System.Globalization;
15
16 namespace Lab05
17 {
18     public partial class MainPage : UserControl
19     {
20         public MainPage()
21         {
22             InitializeComponent();
23         }
24         void catalogServiceGetUserListCompleted(object sender, UserCatalog.GetUserListCompletedEventArgs e
25         )
26         {
27             if (e.Error == null)
28             {
29                 Users.ItemsSource = e.Result;
30             }
31         }
32         private void Button_Click(object sender, RoutedEventArgs e)
33         {
34             UserCatalog.UserCatalogSoapClient catalogService = new UserCatalog.UserCatalogSoapClient();
35             catalogService.GetUserListCompleted += new EventHandler<UserCatalog.
36             GetUserListCompletedEventArgs>(catalogServiceGetUserListCompleted);
37             catalogService.GetUserListAsync(SearchBox.Text);
38         }
39     }
40 }
```

Сервис

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using System.Web.Services;
6 using System.Data;
7 using System.Data.SqlClient;
8 using System.Text;
9 using System.Configuration;
10
11 namespace Lab05.Web
12 {
13     [WebService(Namespace = "http://tempuri.org/")]
14     [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
15     [System.ComponentModel.ToolboxItem(false)]
16     public class UserCatalog : System.Web.Services.WebService
17     {
18         [WebMethod]
19         public List<User> GetUserList(string searchString)
20         {
21             List<User> userList = new List<User>();
22             using (SqlConnection connect = new SqlConnection(ConfigurationManager.ConnectionStrings["DB"].
23             ConnectionString))
24             {
25                 if (connect != null)
26                 {
27                     // ...
28                 }
29             }
30         }
31     }
32 }
```

```

26         StringBuilder sb = new StringBuilder();
27         sb.Append("select * from Users");
28         if (!String.IsNullOrEmpty(searchString))
29         {
30             sb.AppendFormat(" where Name like '{0}%' or LastName like '{0}%' or Address like '{0}%' ", searchString);
31         }
32         SqlDataAdapter da = new SqlDataAdapter(sb.ToString(), connect);
33         DataTable dt = new DataTable();
34         da.Fill(dt);
35         if (dt.Rows.Count > 0)
36         {
37             foreach (DataRow curr in dt.Rows)
38             {
39                 userList.Add(new User(curr["Name"].ToString(), curr["LastName"].ToString(),
40                                     curr["Address"].ToString(), curr["Avatar"].ToString()));
41             }
42         }
43     }
44 }
45 return userList;
46 }
47 }
48
49 public class User
50 {
51     public User() { }
52     public User(string name, string last_name, string address, string avatar)
53     {
54         _name = name;
55         _last_name = last_name;
56         _address = address;
57         _avatar = avatar;
58     }
59     private string _name;
60     public string Name
61     {
62         get { return _name; }
63         set { _name = value; }
64     }
65     private string _last_name;
66     public string LastName
67     {
68         get { return _last_name; }
69         set { _last_name = value; }
70     }
71     private string _address;
72     public string Address
73     {
74         get { return _address; }
75         set { _address = value; }
76     }
77     private string _avatar;
78     public string Avatar
79     {
80         get { return _avatar; }
81         set { _avatar = value; }
82     }
83 }
84 }

```

Разметка главной страницы

```

1 <UserControl x:Class="Lab05.MainPage"
2     xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
3     xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
4     xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
5     xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
6     mc:Ignorable="d"
7     d:DesignHeight="300" d:DesignWidth="400">
8     <UserControl.Resources>
9         <DataTemplate x:Key="DataTemplate">
10             <Grid>
11                 <Grid.RowDefinitions>

```

```

12         <RowDefinition Height="50"/>
13     </Grid.RowDefinitions>
14     <Grid.ColumnDefinitions>
15         <ColumnDefinition Width="auto"/>
16         <ColumnDefinition Width="auto"/>
17         <ColumnDefinition Width="auto"/>
18         <ColumnDefinition Width="auto"/>
19     </Grid.ColumnDefinitions>
20     <Image Height="70" Source="{Binding Avatar, Mode=OneWay}" Grid.Column="0" Margin="5"/>
21     <TextBlock Height="70" Text="{Binding Name, Mode=OneWay}" Grid.Column="1" Margin="5"/>
22     <TextBlock Height="70" Text="{Binding LastName, Mode=OneWay}" Grid.Column="2" Margin="5"/>
23     <TextBlock Height="70" Text="{Binding Address, Mode=OneWay}" Grid.Column="3" Margin="5"/>
24 </Grid>
25 </DataTemplate>
26 </UserControl.Resources>
27
28 <Grid x:Name="LayoutRoot" Background="White">
29     <ListBox x:Name="Users" HorizontalAlignment="Left" Height="252" Margin="10,38,0,0"
30         VerticalAlignment="Top" Width="380" ItemTemplate="{StaticResource DataTemplate}"/>
31     <TextBox x:Name="SearchBox" HorizontalAlignment="Left" Height="23" Margin="10,10,0,0" TextWrapping
32         ="Wrap" VerticalAlignment="Top" Width="300"/>
33     <Button Content="Find" HorizontalAlignment="Left" Margin="315,11,0,0" VerticalAlignment="Top"
34         Width="75" Click="Button_Click"/>
35 </Grid>
36 </UserControl>

```