

B1- Tạo file excel ở đây (trong thư mục bin/debug/netcoreapp của ứng dụng)

ExcelDataFile

ime Share View

C:\Users\nguye\Desktop\demo6\TestDemo6\bin\Debug\netcoreapp3.1\ExcelDataFile

↑

Name	Date modified	Type	Size
SeleniumTraining	4/13/2022 5:38 PM	Microsoft Office E...	9 KB

access

op ↗

loads ↗

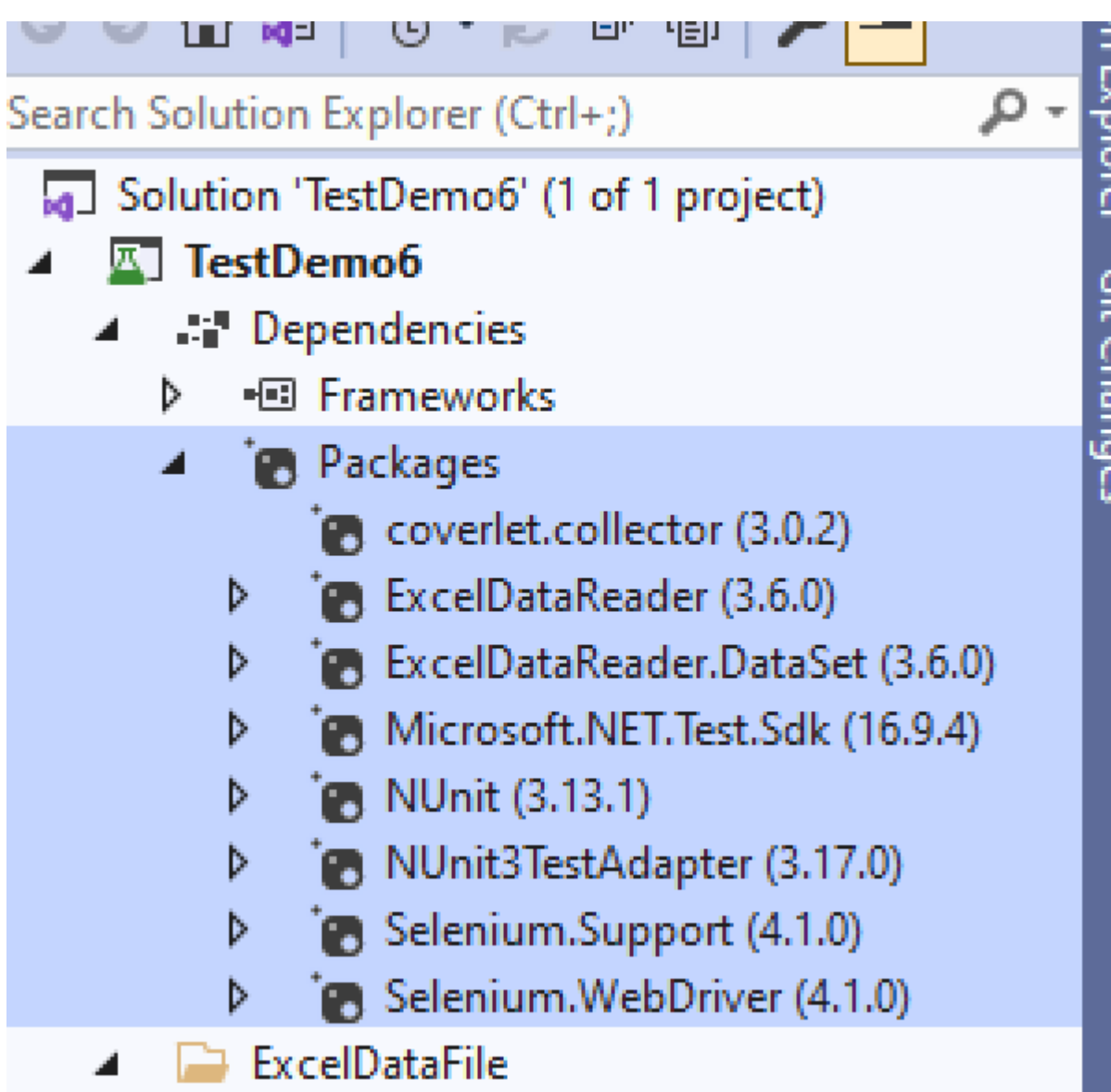
ments ↗

ec ↗

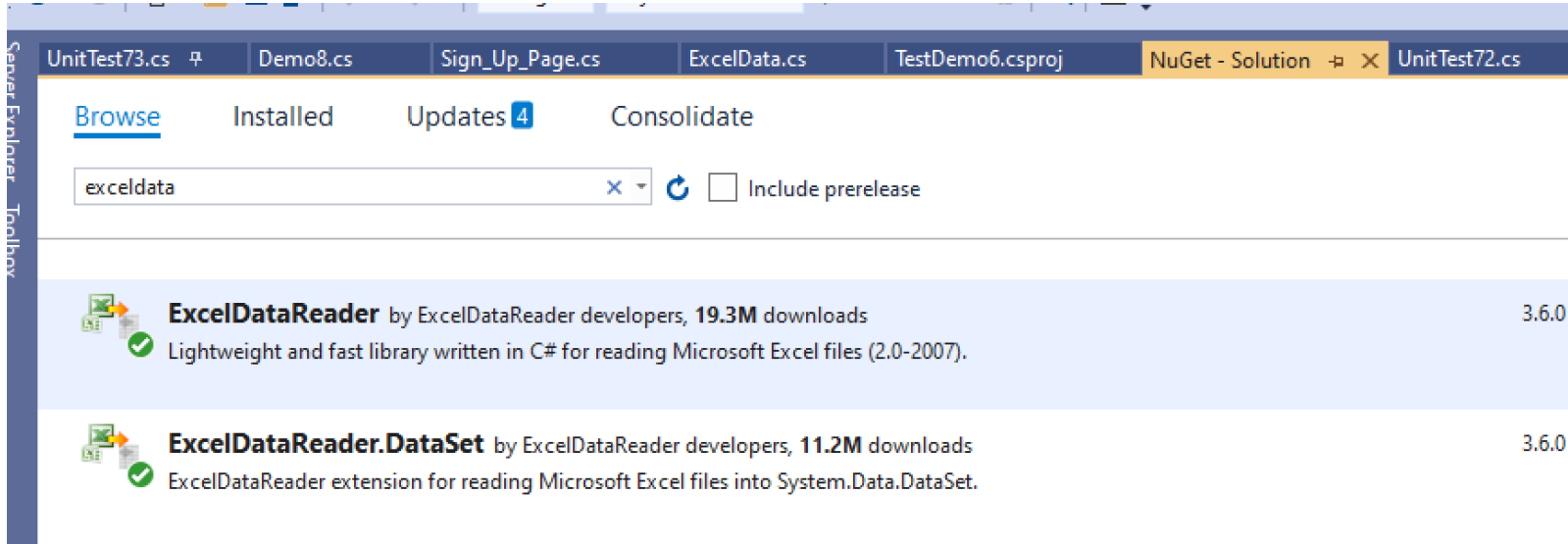
File excel như sau:

B3				
		<i>fx</i>	123456	
	A	B	C	D
1	UserEmail	Password		
2	SeleniumUser_1	1		
3	<a href="#">SeleniumUser 2@gmail.com</a>	123456		
4	<a href="#">SeleniumUser 3@gmail.com</a>	123456		
5	<a href="#">SeleniumUser 4@gmail.com</a>	123456		
6	<a href="#">SeleniumUser 5@gmail.com</a>	123456		
7	<a href="#">SeleniumUser 6@gmail.com</a>	123456		
8				
9				
10				
11				
12				
13				

B2 - Tạo project test, thêm các thư viện



CHú ý import thư viện:



B3 - Viết code file đọc dữ liệu:

```
1 using System;
2 using System.Collections.Generic;
3 using System.Text;
4 using ExcelDataReader;
5 using OpenQA.Selenium;
6 using System.IO;
7 using System.Data;
8 using System.Linq;
9
10 namespace TestDemo6
11 {
12     3 references
13     public class ExcelData
14     {
15         //1. Tao collection de luu tru du lieu
16         private static List<DataCollection> dataCollection = new List<DataCollection>();
17         //2. tao ham dua du lieu vao collection
18         1 reference | 1/1 passing
19         public static void PolulataInCollection(string ExcelFileName)
20         {
21             DataTable table = ExcelToDataTable(ExcelFileName);
22             //tham chieu den cac dong, cac cot
23             for (int row = 1; row <= table.Rows.Count; row++)
24             {
25                 for (int col = 0; col < table.Columns.Count; col++)
26                 {
27                     DataCollection dtTable = new DataCollection()
28                     {
29                         RowNumber = row,
30                         ColumnName = table.Columns[col].ColumnName,
31                         ColumnValue = table.Rows[row - 1][col].ToString()
32                     };
33                     dataCollection.Add(dtTable); //dua vao dataTable
34                 }
35             }
36         }
37     }
38     2 references | 1/1 passing
39     public static string ReadData(int rowNum, string ColumnName)
40     {
41         try
42         {
43             //lay du lieu bang cach dung linq
44             string data = (from colData in dataCollection
45                             where colData.ColumnName == ColumnName
46                             && colData.RowNumber == rowNum
47                             select colData.ColumnValue).SingleOrDefault();
48             return data.ToString();
49         }
50         catch (Exception e)
51         {
52             return null;
53         }
54     }
55     1 reference
56     public static DataTable ExcelToDataTable(String ExcelFileName)
```

```
27 //dien du lieu tu file excel vao dtTable
28 RowNumber = row,
29 ColumnName = table.Columns[col].ColumnName,
30 ColumnValue = table.Rows[row - 1][col].ToString()
31 };
32 dataCollection.Add(dtTable); //dua vao dataTable
33 }
34 }
35 }
36 2 references | 1/1 passing
37 public static string ReadData(int rowNum, string ColumnName)
38 {
39     try
40     {
41         //lay du lieu bang cach dung linq
42         string data = (from colData in dataCollection
43                         where colData.ColumnName == ColumnName
44                         && colData.RowNumber == rowNum
45                         select colData.ColumnValue).SingleOrDefault();
46         return data.ToString();
47     }
48     catch (Exception e)
49     {
50         return null;
51     }
52 }
53 1 reference
54 public static DataTable ExcelToDataTable(String ExcelFileName)
```

```

52 public static DataTable ExcelToDataTable(String ExcelFileName)
53 {
54     System.Text.Encoding.RegisterProvider(System.Text.CodePagesEncodingProvider.Instance);
55     //1.doc file
56     using (FileStream stream = File.Open(ExcelFileName, FileMode.Open, FileAccess.Read))
57     {
58         using (var reader = ExcelReaderFactory.CreateReader(stream))
59         {
60             var result = reader.AsDataSet(new ExcelDataSetConfiguration()
61             {
62                 ConfigureDataTable = (data) => new ExcelDataTableConfiguration()
63                 {
64                     UseHeaderRow = true
65                 }
66             });
67             //2.lay tat ca cac table
68             DataTableCollection table = result.Tables;
69             //3.luu tru trong datatable
70             DataTable resultTable = table["Sheet1"];
71             return resultTable;
72         }
73     }
74 }
75

```

4 references

```

76 public class DataCollection
77 {
78     public int RowNumber { get; set; }
79     public string ColumnName { get; set; }
80     public string ColumnValue { get; set; }
81 }
82 }
83

```

B4 - Viết code file hỗ trợ test

```
UnitTest73.cs  Demo8.cs  Sign_Up_Page.cs  ExcelData.cs  TestDemo6.csproj  NuGet - Solution  UnitTest72.cs  UnitTest3.cs  Test Explorer
TestDemo6  TestDemo6.Sign_Up_Page  LoginInfomation(string userEmail, string password, IWebDriver Driver)

1  using OpenQA.Selenium;
2  using System;
3  using System.Collections.Generic;
4  using System.Text;
5
6  namespace TestDemo6
7  {
8      class Sign_Up_Page
9      {
10         public static void ClearLoginInfomation(IWebDriver Driver)
11         {
12             Driver.FindElement(By.Id("username")).Clear();
13             Driver.FindElement(By.Id("password")).Clear();
14         }
15         public static void LoginInfomation(string userEmail, string password, IWebDriver Driver)
16         {
17             Driver.FindElement(By.Id("username")).SendKeys(userEmail);
18             Driver.FindElement(By.Id("password")).SendKeys(password);
19         }
20     }
21 }
22
23
24
```

B5 - Viết code file test trang lms

```
UnitTest73.cs  Demo8.cs  Sign_Up_Page.cs  ExcelData.cs  TestDemo6.csproj  NuGet - Solution  UnitTest72.cs  UnitTest3.cs  Test Explorer
TestDemo6
TestDemo6.Demo8  testcase81()

1  using System;
2  using System.Collections.Generic;
3  using System.Text;
4  using NUnit.Framework;
5  using OpenQA.Selenium;
6  using OpenQA.Selenium.Chrome;
7  using OpenQA.Selenium.Support.UI;
8  using System.Threading;
9
10
11 namespace TestDemo6
12 {
13
14     public class Demo8
15     {
16         IWebDriver driver;
17         [Test]
18         public void testcase81()
19         {
20             driver = new ChromeDriver("C:\\Users\\nguye\\Downloads\\chromedriver_win32");
21             driver.Url = "http://hn-lms.poly.edu.vn/login.php?target=&client_id=lmsfpoly&auth_stat=";
22             driver.Manage().Window.Maximize();
23         }
24     }
25 }
```

```
UnitTest73.cs  Demo8.cs  Sign_Up_Page.cs  ExcelData.cs  TestDemo6.csproj  NuGet - Solution  UnitTest72.cs  UnitTest3.cs  Test Explorer
TestDemo6
TestDemo6.Demo8  testcase81()

18 public void testcase81()
19 {
20     driver = new ChromeDriver("C:\\Users\\nguye\\Downloads\\chromedriver_win32");
21     driver.Url = "http://hn-lms.poly.edu.vn/login.php?target=&client_id=lmsfpoly&auth_stat=";
22     driver.Manage().Window.Maximize();
23
24     //Thread.Sleep(2000);
25     Sign_Up_Page.ClearLoginInfomation(driver);
26     string fileName = Environment.CurrentDirectory.ToString() +
27         "\\ExcelDataFile\\SeleniumTraining.xlsx";
28     ExcelData.PolulataInCollection(fileName);
29     Sign_Up_Page.LoginInfomation(ExcelData.ReadData(1,"UserEmail"),
30         ExcelData.ReadData(1,"Password"),driver);
31
32     //Thread.Sleep(2000);
33     IWebElement btn = driver.FindElement(By.
34         CssSelector("#form_ > div > div.ilFormFooter.clearfix > div.col-sm-6.ilFormCmds > input"));
35     btn.Click();
36     //Assert.AreEqual("Double check your email and try again",
37         driver.FindElement(By.Id("siteMembersInputErrorMessage_emailInput_SM_ROOT_COMP11")).Text);
38     driver.Close();
39
40 }
41
42 --
```

Chạy test

Test	Duration	T.	Error Message
TestDemo6 (7)	33.4 sec		
TestDemo6 (7)	33.4 sec		
Demo8 (1)	7.4 sec		
testcase81	7.4 sec		
Tests (1)			
UnitTest2 (1)			
UnitTest3 (1)			
UnitTest71 (1)			
UnitTest72 (1)	11.5 sec		
UnitTest73 (1)	14.4 sec		