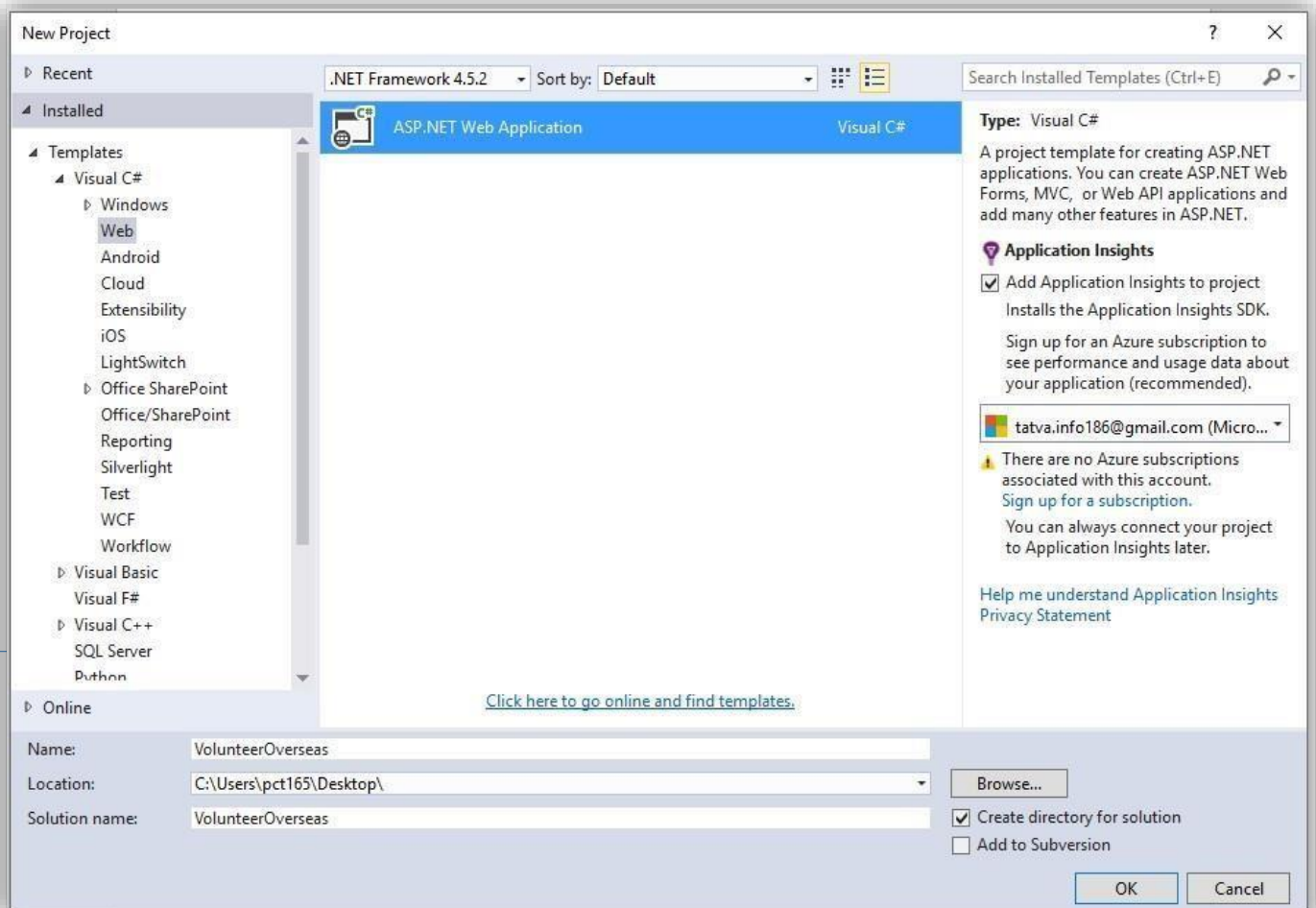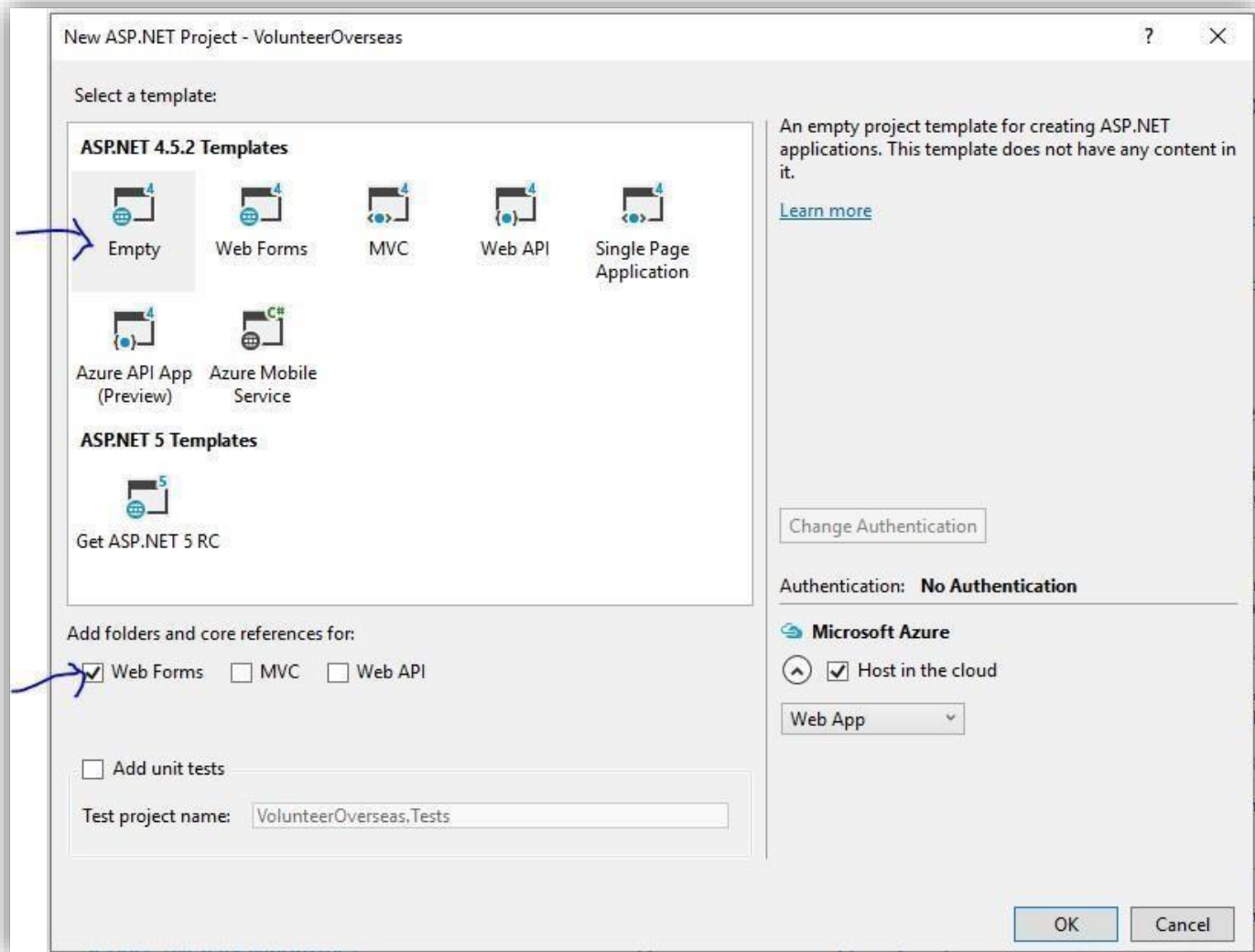# Assignment

For Asp.Net basic operations

& State management

1. Create new asp.net project (blank web project) in visual studio with "VolunteerOverseas" name.

2. Create Login and two other web pages (.aspx) for which you already created in HTML (just copy & paste your html content in relevant .aspx page).

3. Make sure all links should be working and addressing correct pages.

4. All product pages URL must be contained proper query string. For e.g. if I click on any project link then URL would be like
   ".../volunteeroverseas/project.aspx?projectid={PROJECT_ID}".

5. Login Page:-

   a. Username/Password must be required for the login.

   b. Validate the Username/Password in your DB and if it is matched then do login otherwise display message.

   c. Use SP for validating user "u_validateUser"

   d. Once "Login" button clicked, you need to set the "UserID" and "Name" in to the session variables and redirect to Inner page.

6. Inner Pages (All pages which are visible after login):-

   a. Once you click on the "Login" button of login page then you should be redirect to "Home" page.

   b. On clicking "Logout" link, you need to clear all sessions and redirect to Login page.

7. To check/validate session:-

   a. Create base page and inherit to all inner pages.

   b. In base page, check and validate session variables and do appropriate action.

```csharp
//Login page logic when page is submitted
protected void Page_Load(object sender, EventArgs e)
{
    if(Page.IsPostBack)
    {
        if (Request.QueryString["YOUR INPUT FIELD NAME/username"] != null && Request.QueryString["YOUR INPUT FIELD NAME/password"] != null)
        {
            string username = Request.QueryString["YOUR INPUT FIELD NAME/username"];
            string password = Request.QueryString["YOUR INPUT FIELD NAME/password"];

            //Call SP (u_validateUser)
        }
    }
}
```

   c. Below is the example of base page,

Note:-

1. Inner pages should not be open/access directly without doing login.

2. Variable naming conversation should be as per company standards and meaning full.

3. All session variables properties should be in one class.

Basic examples:-

Below is the example of how to create session variable property:

```csharp
public class basePage : System.Web.UI.Page
{
    private void Page_Init(object sender, EventArgs e)
    {
        //Check session variables and apply logic.
        //If session variable is invalid or null or blank then redirect to login page.
    }
}
```

```csharp
/// <summary>
/// Username Get Set property
/// </summary>
public static string Username
{
    get
    {
        if (HttpContext.Current.Session != null && HttpContext.Current.Session["Username"] != null)
        {
            return Convert.ToString(HttpContext.Current.Session["Username"]);
        }
        else
        {
            return string.Empty;
        }
    }
    set
    {
        HttpContext.Current.Session["Username"] = value;
    }
}
```

Below is the example of how to get and set value in session:
Below is the example of how to get and check the value from query string:

Set value in session

```
Session["SESSION VARIABLE NAME"] = "test";
```

Get value from session

```
if(Session != null && Session["test"] != null)
{
    string SessionValue = Convert.ToString(Session["test"]);
}
```

Below is the example of how to get and set value in cookie:

Set value in cookie

```
HttpCookie ckUsername = new HttpCookie("ckUserName", txtUsername.Text);
Response.Cookies.Add(ckUsername);
```

Get value from cookie

```
if (Request.Cookies["ckUserName"] != null && Request.Cookies["ckPassword"] != null)
{
    txtUsername.Text = Request.Cookies["ckUserName"].Value;
    txtPassword.Attributes.Add("value", Request.Cookies["ckPassword"].Value);
}
```

```
if (Request.QueryString["QUERY STRING NAME"] != null)
{
    string  Value = Request.QueryString["QUERY STRING NAME"];
}
```

Below is the example of how to redirect to another page from server side (code behind):

```
Response.Redirect("PAGE NAME");
```

Below is the example of how to clear all session on logout:

```
Session.Clear();
Session.Abandon();
```