

UNIVERSITI TUN HUSSEIN ONN MALAYSIA FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY (FSKTM) SEMESTER I 2024/2025

DOTNET PROGRAMMING BIE33103 SECTION 04

LAB 3

WEB FORM WITH CRUD

LECTURER'S NAME MADAM NORHANIM BINTI SELAMAT

NAME	MATRIC NUMBER			
NURKHAIRINA BALQIS BINTI MOHAMMAD JOE	AI220206			
TUAN KHALIDAH SYAZWANA BINTI TUAN MOHD KASMAWI	AI220118			

Exercise

1. Extend the program into the following:

Food Allergies:

None
Dairy Product
Peanut and Tree Nuts
Soybean
Wheat

Hello friends! The time is now 29/3/2024 7:15:02 AM

- 2. Add a search functionality to find registered child by name.
- 3. Explore and learn how to style your web app better.

Submission

Before extending the program:

Register Child | Registration List

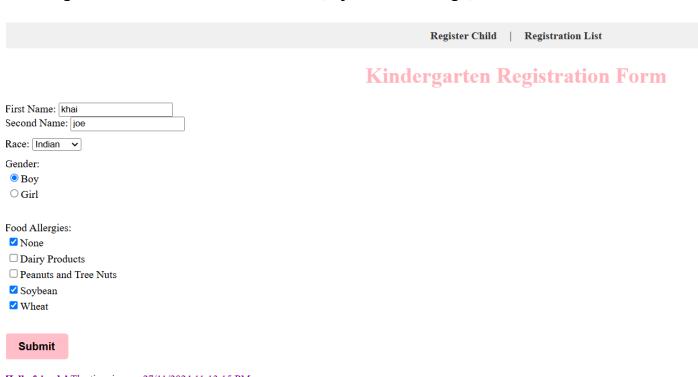
Kindergarten Registration Form

First Name: First Name
Second Name: Second Name
Race: Select V
Gender:
○Boy
● Girl
Food Allergies:
□None
☐ Dairy Products
☐ Peanuts and Tree Nuts
☐ Soybean
□ Wheat
Register

After extending the program:



Register a child with a submit button, dynamic message, date and time:



Hello friends! The time is now 27/11/2024 11:13:15 PM

After registration, it will add the information to the registration list:

Register Child | Registration List

Registration List

Search by Name: Enter first or last name Search

First Name	Second Name	Race	Gender	Food Allergies		
Sophia	James	Other	Girl	Dairy products	<u>Edit</u>	<u>Delete</u>
Vihaan	Jai	Indian	Boy	Peanuts and tree nuts	<u>Edit</u>	<u>Delete</u>
Emily	Tan	Chinese	Girl	Soybean	<u>Edit</u>	<u>Delete</u>
Zara	Wong	Chinese	Girl	None	<u>Edit</u>	<u>Delete</u>
Adam	Lim	Chinese	Boy	Wheat	<u>Edit</u>	<u>Delete</u>
Nurul	Athirah	Malay	Girl	Dairy products, Soybean	<u>Edit</u>	<u>Delete</u>
Sanjay	Amit	Indian	Boy	None	<u>Edit</u>	<u>Delete</u>
Chloe	Lee	Chinese	Girl	Peanuts and tree nuts	<u>Edit</u>	<u>Delete</u>
Ryan	Bakri	Malay	Boy	None	<u>Edit</u>	<u>Delete</u>
khalidah	syazwana	Chinese	Girl	None	Edit	<u>Delete</u>
fatin	fatini	Malay	Girl	Peanuts and Tree Nuts	<u>Edit</u>	<u>Delete</u>
kamarul	zaman	Malay	Boy	None	<u>Edit</u>	<u>Delete</u>
joe	ramly	Chinese	Boy	Dairy Products, Soybean	<u>Edit</u>	<u>Delete</u>
khai	joe	Indian	Boy	None, Soybean, Wheat	<u>Edit</u>	<u>Delete</u>

Edit button with save button:

Edit Registration

First Name: khai Second Name: joe
Race: Indian
Gender:
Boy
○ Girl
Food Allergies:
□None
☐ Dairy Products
Peanuts and Tree Nuts
✓ Soybean
✓ Wheat
Save

It will update after we click the save button:

Register Child | Registration List

Registration List

Search by Name: Enter first or last name Search

First Name	Second Name	Race	Gender	Food Allergies		
Sophia	James	Other	Girl	Dairy products	<u>Edit</u>	<u>Delete</u>
Vihaan	Jai	Indian	Boy	Peanuts and tree nuts	<u>Edit</u>	<u>Delete</u>
Emily	Tan	Chinese	Girl	Soybean	<u>Edit</u>	<u>Delete</u>
Zara	Wong	Chinese	Girl	None	Edit	<u>Delete</u>
Adam	Lim	Chinese	Boy	Wheat	<u>Edit</u>	<u>Delete</u>
Nurul	Athirah	Malay	Girl	Dairy products, Soybean	<u>Edit</u>	<u>Delete</u>
Sanjay	Amit	Indian	Boy	None	<u>Edit</u>	<u>Delete</u>
Chloe	Lee	Chinese	Girl	Peanuts and tree nuts	Edit	<u>Delete</u>
Ryan	Bakri	Malay	Boy	None	<u>Edit</u>	<u>Delete</u>
khalidah	syazwana	Chinese	Girl	None	<u>Edit</u>	<u>Delete</u>
fatin	fatini	Malay	Girl	Peanuts and Tree Nuts	<u>Edit</u>	<u>Delete</u>
kamarul	zaman	Malay	Boy	None	<u>Edit</u>	<u>Delete</u>
joe	ramly	Chinese	Boy	Dairy Products, Soybean	<u>Edit</u>	<u>Delete</u>
khai	joe	Indian	Boy	Soybean, Wheat	<u>Edit</u>	<u>Delete</u>

Delete button will immediately delete and update the registration list:

Register Child | Registration List

Registration List

Search by Name: Enter first or last name Search

First Name	Second Name	Race	Gender	Food Allergies		
Sophia	James	Other	Girl	Dairy products	<u>Edit</u>	<u>Delete</u>
Vihaan	Jai	Indian	Boy	Peanuts and tree nuts	<u>Edit</u>	<u>Delete</u>
Emily	Tan	Chinese	Girl	Soybean	<u>Edit</u>	<u>Delete</u>
Zara	Wong	Chinese	Girl	None	<u>Edit</u>	<u>Delete</u>
Adam	Lim	Chinese	Boy	Wheat	<u>Edit</u>	<u>Delete</u>
Nurul	Athirah	Malay	Girl	Dairy products, Soybean	<u>Edit</u>	<u>Delete</u>
Sanjay	Amit	Indian	Boy	None	<u>Edit</u>	<u>Delete</u>
Chloe	Lee	Chinese	Girl	Peanuts and tree nuts	<u>Edit</u>	<u>Delete</u>
Ryan	Bakri	Malay	Boy	None	<u>Edit</u>	<u>Delete</u>
khalidah	syazwana	Chinese	Girl	None	<u>Edit</u>	<u>Delete</u>
fatin	fatini	Malay	Girl	Peanuts and Tree Nuts	<u>Edit</u>	<u>Delete</u>
kamarul	zaman	Malay	Boy	None	<u>Edit</u>	<u>Delete</u>
joe	ramly	Chinese	Boy	Dairy Products, Soybean	<u>Edit</u>	<u>Delete</u>

Search button using first name or last name:

Register Child | Registration List

Registration List

Search by Name: vihaan Search

First Name	Second Name	Race	Gender	Food Allergies		
Vihaan	Jai	Indian	Boy	Peanuts and tree nuts	<u>Edit</u>	<u>Delete</u>

RegisterChild.aspx

```
RegisterChild.aspx → X RegistrationList.aspx.cs
Page Language="C#" AutoEventWireup="true" CodeBehind="RegisterChild.aspx.cs"
Inherits="TinyTotsWebApp.RegisterChild" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title>Kindergarten Registration Form</title>
 /* Style the title */
 .pink-title {
 color: lightpink;
 text-align:center;
     /* Standardize the gap between the elements in the form */
 margin-bottom: 10px; /* Adjust the spacing as needed */
 /* Style the navigation menu */
 .nav-menu {
 background-color: #f1f1f1;
 padding: 10px;
 text-align: center;
 .nav-menu a {
 margin: 0 15px;
 text-decoration: none;
 font-weight: bold;
 color: #333;
 .nav-menu a:hover {
 color: green;
 .grid-container {
 display: flex;
```

```
justify-content: center;
.grid-container .gridview-style {
width: 80%; /* Set a desired width, adjust as necessary */
/* Style the submit button */
       .submit-button {
          display: inline-block;
          background-color: pink;
          padding: 10px 20px;
          border: none;
          border-radius: 5px;
           font-size: 16px;
          font-weight: bold;
          cursor: pointer;
          transition: background-color 0.3s ease;
<form runat="server" class="form-container">
<div class="nav-menu">
<a href="RegisterChild.aspx">Register Child</a> |
<a href="RegistrationList.aspx">Registration List</a>
<h1 class="pink-title">Kindergarten Registration Form</h1>
<asp:HiddenField ID="hfRegistrationId" runat="server" />
<label for="txtFirstName">First Name:</label>
<asp:TextBox ID="txtFirstName" runat="server" placeholder="First Name" CssClass="formqelement"></asp:TextBox><br/>br />
    <label for="txtSecondName">Second Name:</label>
<asp:TextBox ID="txtSecondName" runat="server" placeholder="Second Name"</pre>
CssClass="form-element"></asp:TextBox><br />
 <label for="ddlRace">Race:</label>
 <asp:DropDownList ID="ddlRace" runat="server" CssClass="form-element">
 <asp:ListItem>Select</asp:ListItem>
 <asp:ListItem Value="Malay">Malay</asp:ListItem>
 <asp:ListItem Value="Chinese">Chinese</asp:ListItem>
 <asp:ListItem Value="Indian">Indian</asp:ListItem>
 <asp:ListItem Value="Other">Other</asp:ListItem>
 </asp:DropDownList><br />
 <label for="rblGender">Gender:</label>
 <asp:RadioButtonList ID="rblGender" runat="server" CssClass="form-element">
 <asp:ListItem Value="Boy">Boy</asp:ListItem>
 <asp:ListItem Value="Girl">Girl</asp:ListItem>
 <label for="cblAllergies" >Food Allergies:</label>
 <asp:CheckBoxList ID="cblAllergies" runat="server" CssClass="form-element">
 <asp:ListItem Value="None">None</asp:ListItem>
 <asp:ListItem Value="Dairy">Dairy Products</asp:ListItem>
 <asp:ListItem Value="Peanuts">Peanuts and Tree Nuts</asp:ListItem>
 <asp:ListItem Value="Soybean">Soybean</asp:ListItem>
 <asp:ListItem Value="Wheat">Wheat</asp:ListItem>
 </asp:CheckBoxList><br />
 <asp:Button ID="btnSubmit" runat="server" Text="Submit" CssClass="submit-button"</pre>
OnClick="btnSubmit_Click" />
      <div id="dynamicMessage" runat="server" style="margin-top: 20px; font-size: 16px; color: purple;">
```

RegisterChild.aspx.cs

```
RegisterChild.aspx.cs + X Configuration.cs
                                                   → 🎖 TinyTotsWebApp.RegisterChild
using System;
// Include using directive at the top using TinyTotsWebApp.Models;
using System.Linq;
using System.Web.UI.WebControls;
namespace TinyTotsWebApp
         protected void Page_Load(object sender, EventArgs e)
             // Display the dynamic message with the current date and time dynamicMessage.InnerHtml = $"<strong>Hello friends!</strong> The time is now {DateTime.Now._ToString("dd/MM/yyyy h:mm:ss tt")}";
         protected void btnSubmit_Click(object sender, EventArgs e)
              using (var db = new TinyTotsDbContext())
                  var registration = new TinyTots
                       FirstName = txtFirstName.Text,
                       SecondName = txtSecondName.Text,
                       Race = ddlRace.SelectedValue,
                      Gender = rblGender.SelectedValue,
FoodAllergies = string.Join(", ", cblAllergies.Items.Cast<ListItem>().Where(i => i.Selected).Select(i
                     => i.Text))
                  db.TinyTotsTable.Add(registration);
                  db.SaveChanges();
```

RegistrationList.aspx

```
px.cs EditRegistration.aspx RegisterChild.aspx RegistrationList.aspx.cs RegistrationL

RegistrationList.aspx.cs RegistrationList.aspx.cs RegistrationList.aspx.cs
                                                                                                      RegistrationList.aspx + ×
Inherits="TinyTotsWebApp.RegistrationList" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<html runat="server">
     <title>Registration List</title>
           .pink-title {
    color: lightpink;
                text-align: center;
           .form-element {
                margin-bottom: 10px;
           .nav-menu {
                background-color: #f1f1f1;
                padding: 10px;
text-align: center;
           .nav-menu a {
margin: 0 15px;
                text-decoration: none;
                font-weight: bold;
                color: #333;
           .nav-menu a:hover {
    color: pink;
```

```
EditRegistration.aspx
                                    RegisterChild.aspx
                                                                RegistrationList.aspx.cs
                                                                                             RegistrationList.aspx + ×
          /* This will center the GridView */
          .grid-container {
               display: flex;
               justify-content: center;
          .grid-container .gridview-style {
               width: 80%; /* Set a desired width, adjust as necessary */
          .search-section {
               text-align: center;
               margin-bottom: 20px;
          .search-button {
               padding: 5px 10px;
               background-color: hotpink;
               color: white;
               border: none;
               border-radius: 5px;
               cursor: pointer;
               font-weight: bold;
<body>
     <form id="form1" runat="server">
          <div class="nav-menu">
               <a href="RegisterChild.aspx">Register Child</a> |
               <a href="RegistrationList.aspx">Registration List</a>
               <h1 class="pink-title">Registration List</h1>
           <div class="search-section">
              <label for="txtSearch">Search by Name:</label>
              <asp:TextBox ID="txtSearch" runat="server" placeholder="Enter first or last name"></asp:TextBox>
              <asp:Button ID="btnSearch" runat="server" Text="Search" CssClass="search-button" OnClick="btnSearch_Click" />
          <div class="grid-container">
              <asp:GridView ID="gvRegistrations" runat="server" AutoGenerateColumns="False"
DataKeyNames="RegistrationId" EmptyDataText="No registrations found."</pre>
                  OnRowDeleting="gvRegistrations_RowDeleting">
                  <Columns>
                     <asp:BoundField DataField="FirstName" HeaderText="First Name" />
                      <asp:BoundField DataField="SecondName" HeaderText="Second Name" />
                      <asp:BoundField DataField="Race" HeaderText="Race" /</pre>
                      <asp:BoundField DataField="Gender" HeaderText="Gender" />
                      <asp:BoundField DataField="FoodAllergies" HeaderText="Food Allergies" />
                      <asp:HyperLinkField Text="Edit" DataNavigateUrlFields="RegistrationId"</pre>
                         DataNavigateUrlFormatString="EditRegistration.aspx?RegistrationId={0}" />
                      <asp:CommandField ShowDeleteButton="True" /</pre>
```

RegistrationList.aspx.cs

```
RegisterChild.aspx
                                                RegistrationList.aspx.cs → X RegistrationList.aspx
                                                                                             RegisterChild.aspx.cs

→ Sa BindGrid(strin)

using System;
using System.Linq;
using TinyTotsWebApp.Models;
namespace TinyTotsWebApp
   public partial class RegistrationList : System.Web.UI.Page
       protected void Page_Load(object sender, EventArgs e)
           if (!IsPostBack)
               BindGrid(); // Load all data initially
       private void BindGrid(string searchQuery = null)
           using (var db = new TinyTotsDbContext())
               var query = db.TinyTotsTable.AsQueryable();
               if (!string.IsNullOrEmpty(searchQuery))
                   query = query.Where(t => t.FirstName.Contains(searchQuery) || t.SecondName.Contains(searchQuery));
               gvRegistrations.DataSource = query.ToList();
               gvRegistrations.DataBind();
```

```
O references
protected void btnSearch_Click(object sender, EventArgs e)
{
    string searchQuery = txtSearch.Text.Trim();
    BindGrid(searchQuery); // Bind the GridView with filtered data
}

O references
protected void gyRegistrations_RowDeleting(object sender, System.Web.UI.WebControls.GridViewDeleteEventArgs e)
{
    int registrationId = Convert.ToInt32(gyRegistrations.DataKeys[e.RowIndex].Value);
    using (var db = new TinyTotsDbContext())
    {
        var record = db.TinyTotsTable.Find(registrationId);
        if (record != null)
        {
            db.TinyTotsTable.Remove(record);
            db.SaveChanges();
        }
    }
    BindGrid(); // Reload the GridView
}
```

EditRegistration.aspx

```
EditRegistration.aspx + X RegisterChild.aspx
on.aspx.cs
   Page Language="C#" AutoEventWireup="true" CodeBehind="EditRegistration.aspx.cs"
   Inherits="TinyTotsWebApp.EditRegistration" %>
   <!DOCTYPE html>
 < <html xmlns="http://www.w3.org/1999/xhtml">
 <head runat="server">
    <title>Edit Registration</title>
    <style>
    .pink-title {
    color: lightpink;
    text-align:center;
    .form-element {
    margin-bottom: 10px; /* Adjust the spacing as needed */
    .nav-menu {
    background-color: #f1f1f1;
    padding: 10px;
    text-align: center;
    .nav-menu a {
    margin: 0 15px;
    text-decoration: none;
    font-weight: bold;
    color: #333;
    .nav-menu a:hover {
    color: pink;
    .grid-container {
    display: flex;
    justify-content: center;
```

```
.grid-container .gridview-style {
width: 80%; /* Set a desired width, adjust as necessary */
<form id="form1" runat="server">
<div class="nav-menu">
 <a href="RegisterChild.aspx">Register Child</a> |
 <a href="RegistrationList.aspx">Registration List</a>
<h1 class="pink-title">Edit Registration</h1>
 <asp:HiddenField ID="hfRegistrationId" runat="server" />
<label for="txtFirstName">First Name:</label>
 <asp:TextBox ID="txtFirstName" runat="server" placeholder="First Name" CssClass="formqelement"></asp:TextBox><br />
<label for="txtSecondName">Second Name:</label)</pre>
<asp:TextBox ID="txtSecondName" runat="server" placeholder="Second Name"</pre>
CssClass="form-element"></asp:TextBox><br />
<label for="ddlRace">Race:</label>
<asp:DropDownList ID="ddlRace" runat="server" CssClass="form-element">
 <asp:ListItem>Select</asp:ListItem>
 <asp:ListItem Value="Malay">Malay</asp:ListItem>
<asp:ListItem Value="Chinese">Chinese</asp:ListItem>
 <asp:ListItem Value="Indian">Indian</asp:ListItem>
<asp:ListItem Value="Other">Other</asp:ListItem>
 <label for="rblGender">Gender:</label>
 <asp:RadioButtonList ID="rblGender" runat="server" CssClass="form-element">
<asp:ListItem Value="Boy">Boy</asp:ListItem>
 <asp:ListItem Value="Girl">Girl</asp:ListItem>
<label for="cblAllergies" >Food Allergies:</label>
 <asp:CheckBoxList ID="cblAllergies" runat="server" CssClass="form-element">
<asp:ListItem Value="None">None</asp:ListItem>
<asp:ListItem Value="Dairy">Dairy Products</asp:ListItem>
 <asp:ListItem Value="Peanuts">Peanuts and Tree Nuts</asp:ListItem>
 <asp:ListItem Value="Soybean">Soybean</asp:ListItem>
 <asp:ListItem Value="Wheat">Wheat</asp:ListItem>
 </asp:CheckBoxList><br />
 <asp:Button ID="btnEdit" runat="server" Text="Save" CssClass="form-element"</pre>
OnClick="btnEdit_Click" />
      </form>
```

</body>

EditRegistration.aspx.cs

```
EditRegistration.aspx.cs + X EditRegistration.aspx
                                                                         RegistrationList.aspx.cs RegistrationList.aspx
TinyTotsWebApp
                                                                     → <a>♣</a>ç TinyTotsWebApp.EditRegistration
                 using System;
                 using System.Linq;
using System.Web.UI.WebControls;
                  using TinyTotsWebApp.Models;
                  namespace TinyTotsWebApp
                      public partial class EditRegistration : System.Web.UI.Page
                           protected void Page_Load(object sender, EventArgs e)
                               if (!IsPostBack)
                                    // Get the RegistrationId from the query string
int registrationId = Convert.ToInt32(Request.QueryString["RegistrationId"]);
                                    LoadRegistration(registrationId);
                           // Method to load the registration data
                           private void LoadRegistration(int registrationId)
        21
22
23
24
25
                               using (var db = new TinyTotsDbContext())
                                    var registration = db.TinyTotsTable.SingleOrDefault(c => c.RegistrationId == registrationId);
                                    if (registration != null)
                                         // Populate form fields with the existing data
        29
30
                                         hfRegistrationId.Value = registration.RegistrationId.ToString();
                                         txtFirstName.Text = registration.FirstName;
txtSecondName.Text = registration.SecondName;
                                         ddlRace.SelectedValue = registration.Race;
                                         rblGender.SelectedValue = registration.Gender;
```

```
string[] allergies = registration.FoodAllergies.Split(new[] { ", " }, StringSplitOptions.None);
            foreach (ListItem item in cblAllergies.Items)
                if (allergies.Contains(item.Value))
                    item.Selected = true;
protected void btnEdit_Click(object sender, EventArgs e)
   int registrationId = Convert.ToInt32(hfRegistrationId.Value);
using (var db = new TinyTotsDbContext())
       var registrationToUpdate = db.TinyTotsTable.SingleOrDefault(c => c.RegistrationId ==
       registrationId);
       if (registrationToUpdate != null)
            // Update the properties with the values from the form fields
            registrationToUpdate.FirstName = txtFirstName.Text;
            registrationToUpdate.SecondName = txtSecondName.Text;
            registrationToUpdate.Race = ddlRace.SelectedValue;
            registrationToUpdate.Gender = rblGender.SelectedValue;
            registrationToUpdate.FoodAllergies = string.Join(", ",
           cblAllergies.Items.Cast<ListItem>().Where(i => i.Selected).Select(i => i.Value));
            db.SaveChanges();
            ClientScript.RegisterStartupScript(this.GetType(), "alert", "alert('Update successful!');", true);
                     // Redirect to RegistrationList.aspx after update
                     Response.Redirect("RegistrationList.aspx");
```