Crud Operation in Entity Framework Core In MVC

Step #01:

Open Visual Studio >> Create New Project >> ASP.NET Core Web App (Model-View-Controller)>> Project Name >> choose Framework version >> OK.

After opening the project, first, we have to create a domain class. Right-click on Models folder and add a class like below. Adding Country, State, City & Employee class.

Country Class:

```
public class Country
{
    public Country()
    {
        States = new Collection<State>();
        Employees= new Collection<Employee>();
    }
    public int Id { get; set; }
    [Required]
    [Display(Name = "Country Name")]
    public string CountryName { get; set; }
    public ICollection<State> States { get; set; }
    public ICollection<Employee> Employees { get; set; }
}
```

State Class:

```
public class State
{
    public State()
    {
        Cities = new Collection<City>();
        Employees= new Collection<Employee>();
    }
    public int Id { get; set; }
    [Required]
    [Display(Name = "State Name")]
    public string StateName { get; set; }

    [ForeignKey("Country")]
    [Display(Name = "Country Name")]
    public int CountryId { get; set; }
    public Country Country { get; set; }

    public ICollection<City> Cities { get; set; }
    public ICollection<Employee> Employees { get; set; }
}
```

City Class:

```
public class City
{
    public City()
    {
        Employees= new Collection<Employee>();
    }
    public int Id { get; set; }
    [Required]
    [Display(Name = "City Name")]
    public string CityName { get; set; }
    [ForeignKey("State")]
    [Display(Name = "State Name")]
    public int StateId { get; set; }
    public State State { get; set; }
    public ICollection<Employee> Employees { get; set; }
}
```

Employee Class:

```
public class Employee
  {
    public int Id { get; set; }
    [Required]
    public string Name { get; set; }
    [Required]
    public string Address { get; set; }
    [Required]
    public string Gender { get; set; }
    public Boolean Ssc { get; set; }
    public Boolean Hsc { get; set; }
    public Boolean Bsc { get; set; }
    public Boolean Msc { get; set; }
    public string Picture { get; set; }
    [Required]
    [ForeignKey("Country")]
    [Display(Name = "Country Name")]
    public int CountryId { get; set; }
    public Country Country { get; set; }
    [Required]
    [ForeignKey("State")]
    [Display(Name = "State Name")]
    public int StateId { get; set; }
    public State State { get; set; }
    [Required]
    [ForeignKey("City")]
    [Display(Name = "City Name")]
    public int CityId { get; set; }
    public City City { get; set; }
  }
```

Step #02

Now, I am going to add a DbContext class. For that, right-click the Models folder and add a class and give the name AppDbContext:DbContext.

AppDbContext Class:

```
public class AppDbContext:DbContext
{
         public AppDbContext(DbContextOptions<AppDbContext> options): base(options)
         {
             public DbSet<Country> Countries { get; set; }
            public DbSet<State> States { get; set; }
            public DbSet<City> Cities { get; set; }
            public DbSet<Employee> Employees { get; set; }
        }
        }
}
```

Set our connection string in **appsettings.json**:

```
"ConnectionStrings": {
    "DBConnection": "Server =KHPOLASH; user id=sa; password=khpolash; Database= CrudOperationDb;
Integrated Security=True; "
  }
```

Set connection in **Program.cs** file:

builder.Services.AddDbContext<AppDbContext>(options=> options.UseSqlServer(builder.Configuration.GetConnectionString("DBConnection")));

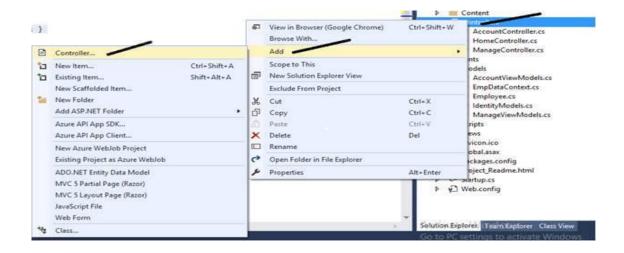
Now open Package Manager Console and run following two commands:

- add-migration "TableName"
- update-database

Step #03:

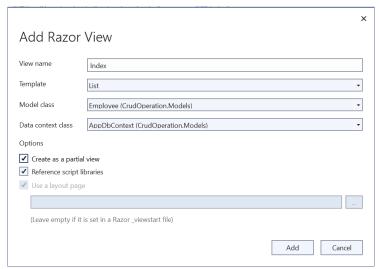
Now, we have to add a Controller. Go to Controllers folder and add a controller.

When we add a controller, in this controller an Index Action method is automatically created. We can change it to a user-friendly method name. Now, create the object of your Dbcontext class and write the logic for retrieval of the data.



```
public class EmployeeController : Controller
        private readonly IWebHostEnvironment _webHostEnvironment;
        private readonly AppDbContext _context;
       public
                   EmployeeController(AppDbContext
                                                         context,
                                                                       IWebHostEnvironment
       webHostEnvironment)
        {
            _context = context;
            _webHostEnvironment = webHostEnvironment;
        // GET: Employee
        public async Task<IActionResult> Index()
             var appDbContext = _context.Employees.Include(e => e.City).Include(e =>
      e.Country).Include(e => e.State);
            return View(await appDbContext.ToListAsync());
        }
   }
```

After that, add a View for displaying the employee records. Right-click on action method and add a View.



And, after that, we will write HTML code like below.

```
@model IEnumerable<CrudOperation.Models.Employee>
```

```
@{
   ViewData["Title"] = "Employee List";
}
<h3>Employee List</h3>
>
   <a class="btn btn-outline-primary btn-sm " asp-action="Create"><i class="bi bi-</pre>
pencil-square"></i> Add New</a>
<thead>
      <mark>@</mark>Html.DisplayNameFor(model => model.Picture)
         @Html.DisplayNameFor(model => model.Name)
         @Html.DisplayNameFor(model => model.Gender)
         Education
         @Html.DisplayNameFor(model => model.Address)
         @Html.DisplayNameFor(model => model.Country)
         @Html.DisplayNameFor(model => model.State)
```

```
<mark>@</mark>Html.DisplayNameFor(model => model.City)
           Action
       </thead>
   @foreach (var item in Model)
       {
           <img class="img-thumbnail" width="50"</pre>
src="~/images/@Html.DisplayFor(modelItem => item.Picture)" alt="Image" />
               <mark>@</mark>Html.DisplayFor(modelItem => item.Name)
               @Html.DisplayFor(modelItem => item.Gender)
               @Html.DisplayNameFor(model => model.Ssc)
                   @Html.DisplayFor(modelItem => item.Ssc)
               @Html.DisplayNameFor(model => model.Hsc)
                   <mark>@</mark>Html.DisplayFor(modelItem => item.Hsc)
               @Html.DisplayNameFor(model => model.Bsc)
                   @Html.DisplayFor(modelItem => item.Bsc)
               @Html.DisplayNameFor(model => model.Msc)
                   @Html.DisplayFor(modelItem => item.Msc)
               @Html.DisplayFor(modelItem => item.Address)
               <mark>@</mark>Html.DisplayFor(modelItem => item.Country.CountryName)
               <mark>@</mark>Html.DisplayFor(modelItem => item.State.StateName)
               @Html.DisplayFor(modelItem => item.City.CityName)
               <a asp-action="Edit" asp-route-id="@item.Id"><i class="bi bi-pencil-</pre>
square"></i></a> |
                   <a asp-action="Details" asp-route-id="@item.Id"><i class="bi bi-eye-</pre>
fill"></i></a> |
                   <a asp-action="Delete" asp-route-id="@item.Id"><i class="bi bi-trash-</pre>
fill"></i></a>
```

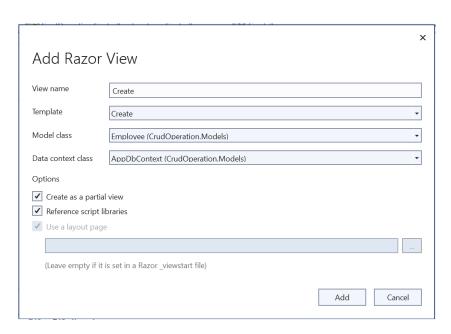

Employee List



Create Operation: We have to create the action method for getting the request named as Create method.

```
// GET: Employee/Create
public IActionResult Create()
{
    ViewData["CityId"] = new SelectList(_context.Cities, "Id", "CityName");
    ViewData["CountryId"] = new SelectList(_context.Countries, "Id", "CountryName");
    ViewData["StateId"] = new SelectList(_context.States, "Id", "StateName");
    return View();
}
```

Now, right-click on Create Action Method and add View.



And, after that, we will write HTML code like below.

```
@model CrudOperation.Models.Employee
<u>@{</u>
    ViewData["Title"] = "Create";
}
<h4>Employee Form</h4>
<hr />
<div class="row">
    <form asp-action="Create" enctype="multipart/form-data">
        <div asp-validation-summary="ModelOnly" class="text-danger"></div>
        <div class="row">
            <div class="col-md-6">
                <div class="row mb-3">
                    <label asp-for="Name" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                        <input asp-for="Name" class="form-control" />
                        <span asp-validation-for="Name" class="text-danger"></span>
                    </div>
                </div>
                <div class="row mb-3">
                    <label class="col-md-3 col-form-label">Gender</label>
                    <div class="col-md-9 pt-2">
                        <label class="radio-inline mx-2">
                            @Html.RadioButtonFor(model => model.Gender, "Male",
htmlAttributes: new { @class = "form-check-input" }) Male
                        </label>
                        <label class="radio-inline mx-2">
                            @Html.RadioButtonFor(model => model.Gender, "Female",
htmlAttributes: new { @class = "form-check-input" }) Female
                        </label>
                        <label class="radio-inline mx-2">
                            @Html.RadioButtonFor(model => model.Gender, "Other",
htmlAttributes: new { @class = "form-check-input" }) Other
                        </label>
                        <br/>
                        <span asp-validation-for="Gender" class="text-danger"></span>
                    </div>
                </div>
                <div class="row mb-3">
                    <label class="col-md-3 col-form-label">Education</label>
                    <div class="col-md-9 pt-2">
                        <div class="form-check form-check-inline">
                            <input type="checkbox" class="form-check-input" asp-for="Ssc"</pre>
/>
                            <label class="form-check-label" asp-for="Ssc">
                                 @Html.DisplayNameFor(model => model.Ssc)
                            </label>
                        </div>
                        <div class="form-check form-check-inline">
                            <input type="checkbox" class="form-check-input" asp-for="Hsc"</pre>
/>
                            <label class="form-check-label" asp-for="Hsc">
                                 @Html.DisplayNameFor(model => model.Hsc)
                            </label>
                        </div>
                        <div class="form-check form-check-inline">
                            <input type="checkbox" class="form-check-input" asp-for="Bsc"</pre>
/>
```

```
<label class="form-check-label" asp-for="Bsc">
                                 @Html.DisplayNameFor(model => model.Bsc)
                             </label>
                        </div>
                        <div class="form-check form-check-inline">
                             <input type="checkbox" class="form-check-input" asp-for="Msc"</pre>
/>
                             <label class="form-check-label" asp-for="Msc">
                                 @Html.DisplayNameFor(model => model.Msc)
                             </label>
                        </div>
                    </div>
                </div>
                <div class="row mb-3">
                    <label asp-for="Address" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                        <textarea asp-for="Address" class="form-control"></textarea>
                         <span asp-validation-for="Address" class="text-danger"></span>
                </div>
                <div class="row mb-3">
                    <label asp-for="CountryId" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                         <select asp-for="CountryId" class="form-control" asp-</pre>
items="ViewBag.CountryId">
                             <option value="">Select Country</option>
                        </select>
                         <span asp-validation-for="CountryId" class="text-danger"></span>
                    </div>
                </div>
                <div class="row mb-3">
                    <label asp-for="StateId" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                        <select asp-for="StateId" asp-items="@(ViewBag.StateId)"</pre>
class="form-control">
                             <option value="">Select State</option>
                        </select>
                         <span asp-validation-for="StateId" class="text-danger"></span>
                    </div>
                </div>
                <div class="row mb-3">
                    <label asp-for="CityId" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                        <select asp-for="CityId" asp-items="@(ViewBag.CityId)"</pre>
class="form-control">
                             <option value="">Select City</option>
                        </select>
                         <span asp-validation-for="CityId" class="text-danger"></span>
                    </div>
                </div>
            </div>
            <div class="col-md-6">
                <div class="row mb-3">
                    <label asp-for="Picture" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                         <input type="file" asp-for="Picture" class="form-control"</pre>
name="pictureFile" accept="image/*" id="FileUpload" onchange="PreviewImage()" />
                         <span asp-validation-for="Picture" class="text-danger"></span>
                    <div class="mt-3" style="text-align:end">
```

```
<img src="~/images/eset_user.png" alt="img" id="UploadFile"</pre>
class="img-thumbnail" style="width:170px;" />
                     </div>
                </div>
                 <div class="mt-3" style="text-align:end">
                     <a class="btn btn-outline-info btn-sm" asp-action="Index">Back to
List</a>
                     <input type="submit" value="Create" class="btn btn-outline-primary</pre>
btn-sm" />
                 </div>
            </div>
        </div>
    </form>
</div>
@section Scripts {
    @{await Html.RenderPartialAsync("_ValidationScriptsPartial");}
}
```

Employee Form Choose file No file chosen Picture Name Gender ○ Male ○ Female ○ Other Education Ssc Hsc Bsc Msc Address Back to List Create Select Country Country Name State Name Select State City Name Select City

Now, we will write the code for posting the details.

```
using (var stream = new FileStream(path, FileMode.Create))
            pictureFile.CopyTo(stream);
        employee.Picture = $"{pictureFile.FileName}";
    }
    _context.Add(employee);
    await _context.SaveChangesAsync();
    return RedirectToAction(nameof(Index));
}
ViewData["CityId"] = new SelectList(_context.Cities,
                                                          "Id"
                                                                  "CityName",
employee.CityId);
ViewData["CountryId"]
                                     SelectList(_context.Countries,
                              new
                                                                        "Id",
"CountryName", employee.CountryId);
ViewData["StateId"] = new SelectList(_context.States, "Id",
employee.StateId);
return View(employee);
```

View Operation: Now we will write code for seeing the details of a particular employee,

```
// GET: Employee/Details/5
        public async Task<IActionResult> Details(int? id)
            if (id == null || _context.Employees == null)
            {
                return NotFound();
            }
            var employee = await _context.Employees
                .Include(e => e.City)
                .Include(e => e.Country)
                .Include(e => e.State)
                .FirstOrDefaultAsync(m => m.Id == id);
            if (employee == null)
            {
                return NotFound();
            }
            return View(employee);
        }
```

Here, right click on the Action method "Details" and press Add View option. And write the below html code,

```
@model CrudOperation.Models.Employee

@{
     ViewData["Title"] = "Details";
}
<div>
```

}

```
<h4>Employee Details</h4>
<hr />
<div class="row">
    <div class="col-md-8">
        <dl class="row">
             <dt class="col-md-3">
                 @Html.DisplayNameFor(model => model.Name)
             </dt>
             <dd class="col-md-9">
                 @Html.DisplayFor(model => model.Name)
             </dd>
             <dt class="col-md-3">
                 @Html.DisplayNameFor(model => model.Address)
            </dt>
             <dd class="col-md-9">
                 <mark>@</mark>Html.DisplayFor(model => model.Address)
             </dd>
             <dt class="col-md-3">
                 @Html.DisplayNameFor(model => model.Gender)
             </dt>
             <dd class="col-md-9">
                 @Html.DisplayFor(model => model.Gender)
             <dt class="col-md-3">
                 Education
            </dt>
             <dd class="col-md-9">
                 @Html.DisplayNameFor(model => model.Ssc)
                 @Html.DisplayFor(model => model.Ssc)
                 @Html.DisplayNameFor(model => model.Hsc)
                 @Html.DisplayFor(model => model.Hsc)
                 @Html.DisplayNameFor(model => model.Bsc)
                 @Html.DisplayFor(model => model.Bsc)
                 @Html.DisplayNameFor(model => model.Msc)
                 @Html.DisplayFor(model => model.Msc)
            </dd>
             <dt class="col-md-3">
                 <mark>@</mark>Html.DisplayNameFor(model => model.Country)
             </dt>
             <dd class="col-md-9">
                 <mark>@</mark>Html.DisplayFor(model => model.Country.CountryName)
            </dd>
             <dt class="col-md-3">
                 <mark>@</mark>Html.DisplayNameFor(model => model.State)
             <dd class="col-md-9">
                 <mark>@</mark>Html.DisplayFor(model => model.State.StateName)
            </dd>
             <dt class="col-md-3">
                 @Html.DisplayNameFor(model => model.City)
             <dd class="col-md-9">
                 @Html.DisplayFor(model => model.City.CityName)
             </dd>
        </dl>
    </div>
    <div class="col-md-4">
        <dl class="row">
            <dt class="col-md-3">
                 @Html.DisplayNameFor(model => model.Picture)
```

```
</dt>
                 <dd class="col-md-9">
                     <img src="~/images/@Html.DisplayFor(model => model.Picture)"
alt="Image" width="200" class="img-thumbnail" />
                 </dd>
             </dl>
        </div>
    </div>
</div>
<div>
    <a asp-action="Edit" asp-route-id="@Model?.Id">Edit</a> |
    <a asp-action="Index">Back to List</a>
</div>
     Employee Details
                     Kamrul Hasan
     Name
                                                                     Picture
```

Address djaldljsakda

Gender Male

Education Ssc Hsc Bsc Msc C

Country United States

State Washington

City Spokane

Update Operation: Now, we will perform edit functionality so for this we will create edit action method.

```
// GET: Employee/Edit/5
        public async Task<IActionResult> Edit(int? id)
            if (id == null || _context.Employees == null)
            {
                return NotFound();
            }
            var employee = await _context.Employees.FindAsync(id);
            if (employee == null)
            {
                return NotFound();
            ViewData["CityId"] = new SelectList(_context.Cities, "Id", "CityName",
employee.CityId);
            ViewData["CountryId"] = new SelectList(_context.Countries, "Id",
"CountryName", employee.CountryId);
            ViewData["StateId"] = new SelectList(_context.States, "Id", "StateName",
employee.StateId);
            return View(employee);
```

Now, right click on the Action method "Edit" and press Add View option. And write the below html code,

```
@model CrudOperation.Models.Employee
```

Edit | Back to List

```
ViewData["Title"] = "Edit";
}
<h4>Employee</h4>
<hr />
<div class="row">
    <form asp-action="Edit" enctype="multipart/form-data">
        <div asp-validation-summary="ModelOnly" class="text-danger"></div>
        <input type="hidden" asp-for="Id" />
        <div class="row">
            <div class="col-md-6">
                <div class="row mb-3">
                    <label asp-for="Name" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                        <input asp-for="Name" class="form-control" />
                        <span asp-validation-for="Name" class="text-danger"></span>
                    </div>
                </div>
                <div class="row mb-3">
                    <label class="col-md-3 col-form-label">Gender</label>
                    <div class="col-md-9 pt-2">
                        <label class="radio-inline mx-2">
                             <mark>@</mark>Html.RadioButtonFor(model => model.Gender, "<mark>Male</mark>",
htmlAttributes: new { @class = "form-check-input" }) Male
                        </label>
                        <label class="radio-inline mx-2">
                            @Html.RadioButtonFor(model => model.Gender, "Female",
htmlAttributes: new { @class = "form-check-input" }) Female
                        </label>
                        <label class="radio-inline mx-2">
                            @Html.RadioButtonFor(model => model.Gender, "Other",
htmlAttributes: new { @class = "form-check-input" }) Other
                        </label>
                    </div>
                </div>
                <div class="row mb-3">
                    <label class="col-md-3 col-form-label">Education</label>
                    <div class="col-md-9 pt-2">
                        <div class="form-check form-check-inline">
                             <input class="form-check-input" asp-for="Ssc" />
                             <label class="form-check-label" asp-for="Ssc">
                                 @Html.DisplayNameFor(model => model.Ssc)
                             </label>
                        <div class="form-check form-check-inline">
                             <input class="form-check-input" asp-for="Hsc" />
                             <label class="form-check-label" asp-for="Hsc">
                                 @Html.DisplayNameFor(model => model.Hsc)
                            </label>
                        </div>
                        <div class="form-check form-check-inline">
                             <input class="form-check-input" asp-for="Bsc" />
                            <label class="form-check-label" asp-for="Bsc">
                                 @Html.DisplayNameFor(model => model.Bsc)
                            </label>
                        </div>
                        <div class="form-check form-check-inline">
                            <input class="form-check-input" asp-for="Msc" />
```

```
<label class="form-check-label" asp-for="Msc">
                                 @Html.DisplayNameFor(model => model.Msc)
                             </label>
                        </div>
                    </div>
                </div>
                <div class="row mb-3">
                    <label asp-for="Address" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                        <textarea asp-for="Address" class="form-control"></textarea>
                        <span asp-validation-for="Address" class="text-danger"></span>
                    </div>
                </div>
                <div class="row mb-3">
                    <label asp-for="CountryId" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                        <select asp-for="CountryId" class="form-control" asp-</pre>
items="ViewBag.CountryId">
                            <option>Select Country</option>
                        </select>
                        <span asp-validation-for="CountryId" class="text-danger"></span>
                    </div>
                </div>
                <div class="row mb-3">
                    <label asp-for="StateId" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                        <select asp-for="StateId" asp-items="@(ViewBag.StateId)"</pre>
class="form-control">
                             <option>Select State
                        </select>
                        <span asp-validation-for="StateId" class="text-danger"></span>
                    </div>
                </div>
                <div class="row mb-3">
                    <label asp-for="CityId" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                        <select asp-for="CityId" asp-items="@(ViewBag.CityId)"</pre>
class="form-control">
                             <option>Select City</option>
                        <span asp-validation-for="CityId" class="text-danger"></span>
                    </div>
                </div>
            </div>
            <div class="col-md-6">
                <div class="row mb-3">
                    <label asp-for="Picture" class="col-md-3 col-form-label"></label>
                    <div class="col-md-9">
                        <input type="file" asp-for="Picture" class="form-control"</pre>
name="pictureFile" accept="image/*" id="FileUpload" onchange="PreviewImage()" />
                        <span asp-validation-for="Picture" class="text-danger"></span>
                    <div class="mt-3" style="text-align:end">
                        <img src="~/images/@Model.Picture" alt="img" id="UploadFile"</pre>
class="img-thumbnail" style="width:170px;" />
                    </div>
                </div>
                <div class="mt-3" style="text-align:end">
```

```
<a class="btn btn-outline-info btn-sm" asp-action="Index">Back to
List</a>
                      <input type="submit" value="Update" class="btn btn-outline-primary</pre>
btn-sm" />
                  </div>
             </div>
         </div>
    </form>
</div>
@section Scripts {
    @{await Html.RenderPartialAsync("_ValidationScriptsPartial");}
Employee
Name
              Kamrul Hasan
                                                  Picture
                                                               Choose file No file chosen
              OMale ○ Female ○ Other
Gender
Education
             ✓ Ssc ✓ Hsc ✓ Bsc ☐ Msc
Address
              djaldljsakda
                                                                                       Back to List Update
              United States
Country Name
State Name
              Washington
City Name
              Spokane
Now, we will write the code for updating the page.
// POST: Employee/Edit/5
         // To protect from overposting attacks, enable the specific properties you want
to bind to.
         // For more details, see http://go.microsoft.com/fwlink/?LinkId=317598.
         [HttpPost]
         [ValidateAntiForgeryToken]
         public async Task<IActionResult> Edit(Employee employee, IFormFile pictureFile)
             if (ModelState.IsValid)
             {
                  try
                  {
                      var emp = await _context.Employees.FindAsync(employee.Id);
                      if (pictureFile != null && pictureFile.Length > 0)
                           var path = Path.Combine(Directory.GetCurrentDirectory(),
"wwwroot/images",
                            pictureFile.FileName);
                          using (var stream = new FileStream(path, FileMode.Create))
                               pictureFile.CopyTo(stream);
                           }
                           employee.Picture = $"{pictureFile.FileName}";
                      }
                      else
```

```
{
                        employee.Picture = emp.Picture;
                    emp.Picture= employee.Picture;
                    emp.Name = employee.Name;
                    emp.Address = employee.Address;
                    emp.Gender = employee.Gender;
                    emp.Ssc= employee.Ssc;
                    emp.Hsc= employee.Hsc;
                    emp.Bsc= employee.Bsc;
                    emp.Msc= employee.Msc;
                    emp.CountryId= employee.CountryId;
                    emp.StateId= employee.StateId;
                    emp.CityId= employee.CityId;
                    _context.Update(emp);
                    await _context.SaveChangesAsync();
                catch (DbUpdateConcurrencyException)
                    if (!EmployeeExists(employee.Id))
                        return NotFound();
                    }
                    else
                    {
                        throw;
                    }
                }
                return RedirectToAction(nameof(Index));
            ViewData["CityId"] = new SelectList(_context.Cities, "Id", "CityName",
employee.CityId);
            ViewData["CountryId"] = new SelectList(_context.Countries, "Id",
"CountryName", employee.CountryId);
            ViewData["StateId"] = new SelectList(_context.States, "Id", "StateName",
employee.StateId);
            return View(employee);
        }
Delete operation: So, finally we write code for Delete operation.
// GET: Employee/Delete/5
        public async Task<IActionResult> Delete(int? id)
            if (id == null || _context.Employees == null)
            {
                return NotFound();
            var employee = await _context.Employees
                .Include(e => e.City)
                .Include(e => e.Country)
                .Include(e => e.State)
                .FirstOrDefaultAsync(m => m.Id == id);
            if (employee == null)
            {
                return NotFound();
```

```
}
return View(employee);
}
```

Right click on the Delete Action method and add the view. And we will write the HTML code.

```
@model CrudOperation.Models.Employee
@{
    ViewData["Title"] = "Delete";
}
<h1>Delete</h1>
<h3>Are you sure you want to delete this?</h3>
    <h4>Employee</h4>
    <hr />
    <dl class="row">
        <dt class = "col-sm-2">
             @Html.DisplayNameFor(model => model.Name)
        <dd class = "col-sm-10">
             @Html.DisplayFor(model => model.Name)
        </dd>
        <dt class = "col-sm-2">
             @Html.DisplayNameFor(model => model.Address)
        <dd class = "col-sm-10">
             <mark>@</mark>Html.DisplayFor(model => model.Address)
        </dd>
        <dt class = "col-sm-2">
             @Html.DisplayNameFor(model => model.Gender)
        </dt>
        <dd class = "col-sm-10">
             @Html.DisplayFor(model => model.Gender)
        </dd>
        <dt class = "col-sm-2">
             <mark>@</mark>Html.DisplayNameFor(model => model.Ssc)
        </dt>
        <dd class = "col-sm-10">
             @Html.DisplayFor(model => model.Ssc)
        </dd>
        <dt class = "col-sm-2">
             @Html.DisplayNameFor(model => model.Hsc)
        </dt>
        <dd class = "col-sm-10">
            @Html.DisplayFor(model => model.Hsc)
        </dd>
        <dt class = "col-sm-2">
             <mark>@</mark>Html.DisplayNameFor(model => model.Bsc)
        </dt>
        <dd class = "col-sm-10">
             <mark>@</mark>Html.DisplayFor(model => model.Bsc)
        <dt class = "col-sm-2">
```

```
<mark>@</mark>Html.DisplayNameFor(model => model.Msc)
        </dt>
        <dd class = "col-sm-10">
            <mark>@</mark>Html.DisplayFor(model => model.Msc)
        </dd>
        <dt class = "col-sm-2">
            @Html.DisplayNameFor(model => model.Picture)
        <dd class = "col-sm-10">
            @Html.DisplayFor(model => model.Picture)
        </dd>
        <dt class = "col-sm-2">
            @Html.DisplayNameFor(model => model.Country)
        </dt>
        <dd class = "col-sm-10">
            @Html.DisplayFor(model => model.Country.CountryName)
        </dd>
        <dt class = "col-sm-2">
            @Html.DisplayNameFor(model => model.State)
        </dt>
        <dd class = "col-sm-10">
            @Html.DisplayFor(model => model.State.StateName)
        <dt class = "col-sm-2">
            @Html.DisplayNameFor(model => model.City)
        </dt>
        <dd class = "col-sm-10">
            @Html.DisplayFor(model => model.City.CityName)
        </dd>
    </dl>
    <form asp-action="Delete">
        <input type="hidden" asp-for="Id" />
        <input type="submit" value="Delete" class="btn btn-danger" /> |
        <a asp-action="Index">Back to List</a>
    </form>
</div>
```

Delete

Are you sure you want to delete this?

Employee

Name	Kamrul Hasan
Address	djaldljsakda
Gender	Male
Ssc	
Hsc	
Bsc	
Msc	
Picture	avatar4.png
Country	United States
State	Washington
City	Spokane
Delete Back to List	

```
// POST: Employee/Delete/5
        [HttpPost, ActionName("Delete")]
        [ValidateAntiForgeryToken]
        public async Task<IActionResult> DeleteConfirmed(int id)
            if (_context.Employees == null)
            {
                return Problem("Entity set 'AppDbContext.Employees' is null.");
            var employee = await _context.Employees.FindAsync(id);
            if (employee != null)
                _context.Employees.Remove(employee);
            }
            await _context.SaveChangesAsync();
            return RedirectToAction(nameof(Index));
        }
Here additional Code for cascading dropdown
      public JsonResult GetStatesByCountryId(int countryId)
        {
            List<State> statesList = new List<State>();
            statesList = (from state in _context.States
                          where state.CountryId == countryId
                          select state).ToList();
            return Json(statesList);
        }
        public JsonResult GetCitiesByStateId(int stateId)
            List<City> citiesList = new List<City>();
            citiesList = (from city in _context.Cities
                          where city.StateId == stateId
                          select city).ToList();
            return Json(citiesList);
        }
jQuery Code:
// Please see documentation at https://docs.microsoft.com/aspnet/core/client-
side/bundling-and-minification
// for details on configuring this project to bundle and minify static web assets.
// Write your JavaScript code.
$(document).ready(function () {
    // Get States by Country ID
```

```
$('#CountryId').change(function () {
        $.ajax({
            type: "get",
            url: "/Employee/GetStatesByCountryId",
            data: { countryId: $('#CountryId').val() },
            datatype: "json",
            traditional: true,
            success: function (data) {
                 var state = "<select id='StateId'>";
                 state = state + '<option value="">Select State</option>';
                 for (var i = 0; i < data.length; i++) {</pre>
                     state = state + '<option value=' + data[i].id + '>' +
data[i].stateName + '</option>';
                 }
                 state = state + '</select>';
                 $('#StateId').html(state);
            }
        });
    }):
    // Get Cities by State ID
    $('#StateId').change(function () {
        $.ajax({
            type: "get",
            url: "/Employee/GetCitiesByStateId"
            data: { stateId: $('#StateId').val() },
            datatype: "json",
            traditional: true,
            success: function (data) {
                 var city = "<select id='CityId'>";
                 city = city + '<option value="">Select City</option>';
                 for (var i = 0; i < data.length; i++) {</pre>
                     city = city + '<option value=' + data[i].id + '>' + data[i].cityName
+ '</option>';
                 city = city + '</select>';
                 $('#CityId').html(city);
        });
    });
    //Checkbox Checked
    var $ssc = $("#Ssc");
    var $hsc = $("#Hsc");
    var $bsc = $("#Bsc");
    var $msc = $("#Msc");
    $hsc.on("click", function () {
        var anyChecked = $hsc.is(":checked");
        $ssc.prop("checked", anyChecked);
    });
    $bsc.on("click", function () {
        var anyChecked = $bsc.is(":checked");
        $ssc.prop("checked", anyChecked);
$hsc.prop("checked", anyChecked);
    });
    $msc.on("click", function () {
        var anyChecked = $msc.is(":checked");
        $ssc.prop("checked", anyChecked);
        $hsc.prop("checked", anyChecked);
```

```
$bsc.prop("checked", anyChecked);
});

//Image Preview
function PreviewImage() {
   var oFReader = new FileReader();
   oFReader.readAsDataURL(document.getElementById("FileUpload").files[0]);

oFReader.onload = function (oFREvent) {
        document.getElementById("UploadFile").src = oFREvent.target.result;
   };
};
```

Thanks.....!

Happy Codding.