

Appsettings.json

```
"ConnectionStrings": {  
    "DevConnection": "server=localhost;user  
id=root;password=;database=kct; charset=utf8; default command  
timeout=0"  
}
```

Program.cs

```
builder.Services.AddDbContext<DataDbContext>(option =>  
{  
  
option.UseMySQL(builder.Configuration.GetConnectionString("DevConn  
ection"));  
});
```

Models

Users.cs

```
using Microsoft.AspNetCore.Mvc;  
  
namespace AspCoreMVCEF.Models  
{  
    [BindProperties]  
    public class User  
    {  
        public int id { get; set; }  
        public string username { get; set; }  
        public string password { get; set; }  
        public string email { get; set; }  
    }  
}
```

DataDbContext.cs

```
using Microsoft.EntityFrameworkCore;  
  
namespace AspCoreMVCEF.Models  
{  
    public class DataDbContext : DbContext  
    {  
        public DataDbContext(DbContextOptions options) :  
base(options)  
        {  

```

```

    }
    public DbSet<User> Users { get; set; }
}
}

```

Controllers

UserController.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.Rendering;
using Microsoft.EntityFrameworkCore;
using AspCoreMVCEF.Models;

namespace AspCoreMVCEF.Controllers
{
    public class UsersController : Controller
    {
        private readonly DataDbContext _context;

        public UsersController(DataDbContext context)
        {
            _context = context;
        }

        // GET: Users
        // This enables the action methods to perform asynchronous
        operations,
        // like database calls or web service requests, without
        blocking the calling thread
        public async Task<IActionResult> Index()
        {
            return _context.Users != null ?
                View(await _context.Users.ToListAsync())
                :
                Problem("Entity set
'DataDbContext.Users' is null.");
        }

        // GET: Users/Details/5
        public async Task<IActionResult> Details(int? id)

```

```

{
    if (id == null || _context.Users == null)
    {
        return NotFound();
    }

    var user = await _context.Users
        .FirstOrDefaultAsync(m => m.id == id);
    if (user == null)
    {
        return NotFound();
    }

    return View(user);
}

// GET: Users/Create
public IActionResult Create()
{
    return View();
}

// POST: Users/Create
// 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> Create(User user)
{
    if (ModelState.IsValid)
    {
        _context.Add(user);
        await _context.SaveChangesAsync();
        return RedirectToAction(nameof(Index));
    }
    return View(user);
}

// GET: Users/Edit/5
public async Task<IActionResult> Edit(int? id)
{
    if (id == null || _context.Users == null)
    {
        return NotFound();
    }

```

```

    }

    var user = await _context.Users.FindAsync(id);
    if (user == null)
    {
        return NotFound();
    }
    return View(user);
}

// POST: Users/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(int id, User user)
{
    if (id != user.id)
    {
        return NotFound();
    }

    if (ModelState.IsValid)
    {
        try
        {
            _context.Update(user);
            await _context.SaveChangesAsync();
        }
        catch (DbUpdateConcurrencyException)
        {
            if (!UserExists(user.id))
            {
                return NotFound();
            }
            else
            {
                throw;
            }
        }
        return RedirectToAction(nameof(Index));
    }
    return View(user);
}

```

```

// GET: Users/Delete/5
public async Task<IActionResult> Delete(int? id)
{
    if (id == null || _context.Users == null)
    {
        return NotFound();
    }

    var user = await _context.Users
        .FirstOrDefaultAsync(m => m.id == id);
    if (user == null)
    {
        return NotFound();
    }

    return View(user);
}

// POST: Users/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public async Task<IActionResult> DeleteConfirmed(int id)
{
    if (_context.Users == null)
    {
        return Problem("Entity set 'DataDbContext.Users'
is null.");
    }
    var user = await _context.Users.FindAsync(id);
    if (user != null)
    {
        _context.Users.Remove(user);
    }

    await _context.SaveChangesAsync();
    return RedirectToAction(nameof(Index));
}

private bool UserExists(int id)
{
    return (_context.Users?.Any(e => e.id ==
id)).GetValueOrDefault();
}
}
}

```


Views>Users

Create.cshtml

```
@model AspCoreMVCEF.Models.User
```

```
@{  
    ViewData["Title"] = "Create";  
    Layout = "~/Views/Shared/_Layout.cshtml";  
}
```

```
<h1>Create</h1>
```

```
<h4>User</h4>
```

```
<hr />
```

```
<div class="row">
```

```
    <div class="col-md-4">
```

```
        <form asp-action="Create">
```

```
            <div asp-validation-summary="ModelOnly" class="text-  
danger"></div>
```

```
            <div class="form-group">
```

```
                <label asp-for="username" class="control-  
label"></label>
```

```
                <input asp-for="username" class="form-control" />
```

```
                <span asp-validation-for="username" class="text-  
danger"></span>
```

```
            </div>
```

```
            <div class="form-group">
```

```
                <label asp-for="password" class="control-  
label"></label>
```

```
                <input asp-for="password" class="form-control" />
```

```
                <span asp-validation-for="password" class="text-  
danger"></span>
```

```
            </div>
```

```
            <div class="form-group">
```

```
                <label asp-for="email" class="control-  
label"></label>
```

```
                <input asp-for="email" class="form-control" />
```

```
                <span asp-validation-for="email" class="text-  
danger"></span>
```

```
            </div>
```

```
            <div class="form-group">
```

```
                <input type="submit" value="Create" class="btn  
btn-primary" />
```

```
            </div>
```

```
        </form>
```

```
    </div>
```

```

</div>

<div>
    <a asp-action="Index">Back to List</a>
</div>

@section Scripts {
    @{await Html.RenderPartialAsync("_ValidationScriptsPartial");}
}

```

Delete.cshtml

```

@model AspCoreMVCEF.Models.User

@{
    ViewData["Title"] = "Delete";
    Layout = "~/Views/Shared/_Layout.cshtml";
}

<h1>Delete</h1>

<h3>Are you sure you want to delete this?</h3>
<div>
    <h4>User</h4>
    <hr />
    <dl class="row">
        <dt class="col-sm-2">
            @Html.DisplayNameFor(model => model.username)
        </dt>
        <dd class="col-sm-10">
            @Html.DisplayFor(model => model.username)
        </dd>
        <dt class="col-sm-2">
            @Html.DisplayNameFor(model => model.password)
        </dt>
        <dd class="col-sm-10">
            @Html.DisplayFor(model => model.password)
        </dd>
        <dt class="col-sm-2">
            @Html.DisplayNameFor(model => model.email)
        </dt>
        <dd class="col-sm-10">
            @Html.DisplayFor(model => model.email)
        </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>

```

Details.cshtml

```

@model AspNetCoreMVCEF.Models.User

@{
    ViewData["Title"] = "Details";
    Layout = "~/Views/Shared/_Layout.cshtml";
}

<h1>Details</h1>

<div>
    <h4>User</h4>
    <hr />
    <dl class="row">
        <dt class="col-sm-2">
            @Html.DisplayNameFor(model => model.username)
        </dt>
        <dd class="col-sm-10">
            @Html.DisplayFor(model => model.username)
        </dd>
        <dt class="col-sm-2">
            @Html.DisplayNameFor(model => model.password)
        </dt>
        <dd class="col-sm-10">
            @Html.DisplayFor(model => model.password)
        </dd>
        <dt class="col-sm-2">
            @Html.DisplayNameFor(model => model.email)
        </dt>
        <dd class="col-sm-10">
            @Html.DisplayFor(model => model.email)
        </dd>
    </dl>
</div>
<div>
    <a asp-action="Edit" asp-route-id="@Model?.id">Edit</a> |
    <a asp-action="Index">Back to List</a>

```

```
</div>
```

Edit.cshtml

```
@model AspCoreMVCEF.Models.User
```

```
@{  
    ViewData["Title"] = "Edit";  
    Layout = "~/Views/Shared/_Layout.cshtml";  
}
```

```
<h1>Edit</h1>
```

```
<h4>User</h4>
```

```
<hr />
```

```
<div class="row">
```

```
    <div class="col-md-4">
```

```
        <form asp-action="Edit">
```

```
            <div asp-validation-summary="ModelOnly" class="text-  
danger"></div>
```

```
            <input type="hidden" asp-for="id" />
```

```
            <div class="form-group">
```

```
                <label asp-for="username" class="control-  
label"></label>
```

```
                <input asp-for="username" class="form-control" />
```

```
                <span asp-validation-for="username" class="text-  
danger"></span>
```

```
            </div>
```

```
            <div class="form-group">
```

```
                <label asp-for="password" class="control-  
label"></label>
```

```
                <input asp-for="password" class="form-control" />
```

```
                <span asp-validation-for="password" class="text-  
danger"></span>
```

```
            </div>
```

```
            <div class="form-group">
```

```
                <label asp-for="email" class="control-  
label"></label>
```

```
                <input asp-for="email" class="form-control" />
```

```
                <span asp-validation-for="email" class="text-  
danger"></span>
```

```
            </div>
```

```
            <div class="form-group">
```

```
                <input type="submit" value="Save" class="btn btn-  
primary" />
```

```
            </div>
```

```

        </form>
    </div>
</div>

<div>
    <a asp-action="Index">Back to List</a>
</div>

@section Scripts {
    @{await Html.RenderPartialAsync("_ValidationScriptsPartial");}
}

```

Index.cshtml

```

@model IEnumerable<AspCoreMVCEF.Models.User>

@{
    ViewData["Title"] = "Index";
    Layout = "~/Views/Shared/_Layout.cshtml";
}

<h1>Index</h1>

<p>
    <a asp-action="Create">Create New</a>
</p>
<table class="table">
    <thead>
        <tr>
            <th>
                @Html.DisplayNameFor(model => model.username)
            </th>
            <th>
                @Html.DisplayNameFor(model => model.password)
            </th>
            <th>
                @Html.DisplayNameFor(model => model.email)
            </th>
            <th></th>
        </tr>
    </thead>
    <tbody>
        @foreach (var item in Model) {
            <tr>
                <td>
                    @Html.DisplayFor(modelItem => item.username)

```

```
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.password)
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.email)
        </td>
        <td>
            <a asp-action="Edit" asp-route-
id="@item.id">Edit</a> |
            <a asp-action="Details" asp-route-
id="@item.id">Details</a> |
            <a asp-action="Delete" asp-route-
id="@item.id">Delete</a>
        </td>
    </tr>
}
</tbody>
</table>
```