Development of an app in Blazor.

Get started for Access users

Microsoft

Blazor Explanation

What's that Blazor?

3 types (more or less)

Blazor vs Powers

Microsoft

Access and Sql Server on Azure sample

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Steps

Create your app in 11 steps

Microsoft

1. New WebAssembly Application

View initial options

Microsoft

2. Nuggets (references)

Install-Package

Microsoft.EntityFrameworkCore.SqlServer

Install-Package

Microsoft.EntityFrameworkCore.Tools

Syncfusion???

3. Scaffold to data

- Scaffold-DbContext "Server=tcp:auge.database.windows.net,1433;Initial Catalog=appScripts;Persist Security Info=False;User ID=Juanjo;Password=#MadridAccess23;MultipleActiveResultSets=False;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;" Microsoft.EntityFrameworkCore.SqlServer -ContextDir ApplicationDbContext -Context ApplicationDbContext -OutputDir Models

Microsoft

4. We move models

DbContext = ApplicationDbContext in Server

The models to Shared

5. Connection String in appSettings and program

- In appsettings.Development.json

```
 "ConnectionStrings": {
    "DefaultConnection": "Server=tcp:auge.database.windows.net,1433;Initial Catalog=appScripts;Persist Security Info=False;User ID=Juanjo;Password=#MadridAccess23;MultipleActiveResultSets=False;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;"
  },
```

- In Program.cs

```
builder.Services.AddDbContext<ApplicationDbContext>(options => options.UseSqlServer("name=DefaultConnection"));
```

6. Create Rest/API → Controllers

- See Weather Forecast
- For each Entity:
    - Add Controller – API – API Controller with actions that use Entity Framework

Microsoft

7. Create Repositories (form functions)

HttpResponseWrapper.cs

Irepositorio.cs

Repositorio.cs

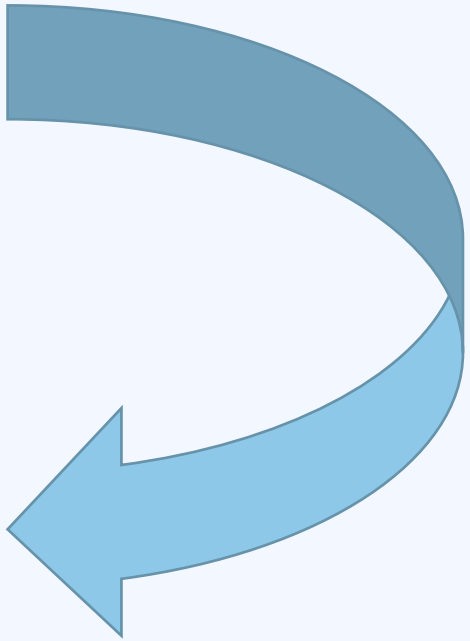
8. We declare the repositories in Program.cs

```
builder.Services.AddSingleton(sp => new HttpClient { BaseAddress = new Uri(builder.HostEnvironment.BaseAddress) });

ConfigureServices(builder.Services);

await builder.Build().RunAsync();

void ConfigureServices(IServiceCollection services)
{
    services.AddScoped<IRepositorio, Repositorio>();
}
```



Microsoft

9. WE TEST API

Ruta /api/Usuarios

Ruta /api/Usuarios/1

Use Postman or similar

10. Create Components→ Forms

- Pages – New component
- Reference to the desired entity---imports.razor
- Code
  - Dim

```
private List<Usuario> listaUsuarios { get; set; }
```

  - OnLoad

```
protected override async Task OnInitializedAsync()
{
    var respuestaHTTP = await repositorio.Get<List<Usuario>>($"api/Usuarios");
}
```

- Form Controls
  - Div and control name in html(use Bootstrap)

Microsoft

10.a. We create CRUD components

Create Usuario

Read Usuarios

Update Usuarios

Delete usuario

Microsoft

To allow includes in APIs

In Server.Program.cs

```
// To allow includes .Include(x => x.Usuario)

builder.Services.AddControllersWithViews()

        .AddJsonOptions(x => x.JsonSerializerOptions.ReferenceHandler = ReferenceHandler.IgnoreCycles);
```

Microsoft

Edit the Menu

```
<div class="nav-item px-3">
    <NavLink class="nav-link" href="fetchdata">
        <span class="oi oi-list-rich" aria-hidden="true"></span> Fetch data
    </NavLink>
</div>
```

Microsoft

11. Publish app

Azure may be free

Publish Server (non-Client)

Connect to the database

Microsoft

12. Use ready-made add-ons

Telerik

Syncfusion (free)

https://blazor.syncfusion.com/documentation/getting-started/blazor-webassembly-visual-studio

Microsoft

Thank you!!