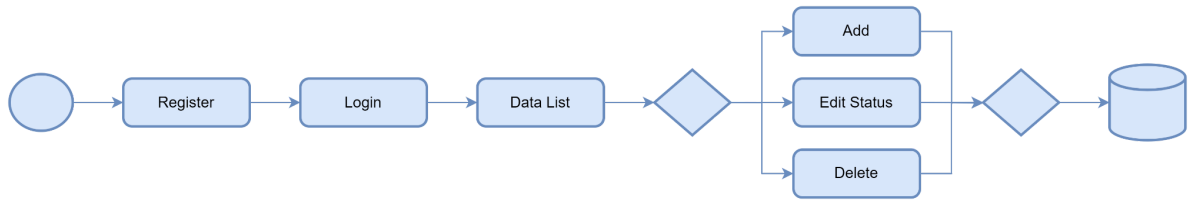


Technical Documentation

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Workflow



Mindmap Diretory Project

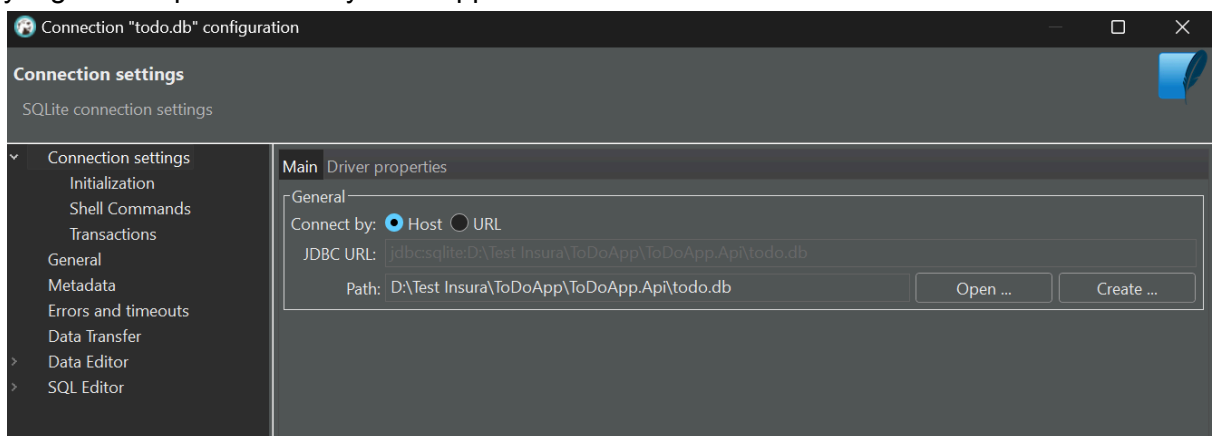


Setup Aplikasi

1. Clone project todoapp dari github (<https://github.com/maul97siregar/ToDoApps.git>)
2. Buka terminal pada root directory project, lalu ketik command "dotnet ef database update"

```
PS D:\Test Insura\ToDoApp\ToDoApp.Api> dotnet ef database update
Build started...
Build succeeded.
The Entity Framework tools version '8.0.6' is older than that of the runtime '8.0.8'. Update the tools for the latest features and bug fixes. See https://aka.ms/AAC1fbw for more information.
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
      Executed DbCommand (6ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
      SELECT COUNT(*) FROM "sqlite_master" WHERE "name" = '__EFMigrationsHistory' AND "type" = 'table';
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
      Executed DbCommand (0ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
      SELECT COUNT(*) FROM "sqlite_master" WHERE "name" = '__EFMigrationsHistory' AND "type" = 'table';
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
      Executed DbCommand (1ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
      SELECT "MigrationId", "ProductVersion"
      FROM "__EFMigrationsHistory"
      ORDER BY "MigrationId";
info: Microsoft.EntityFrameworkCore.Migrations[20405]
      No migrations were applied. The database is already up to date.
No migrations were applied. The database is already up to date.
Done.
PS D:\Test Insura\ToDoApp\ToDoApp.Api>
```

3. Setelah melakukan update, untuk memastikan silahkan buka dbeave, laragon, etc untuk connection database. Disini saya menggunakan DbEaver. Jangan lupa untuk arahkan file db yang berada pada directory ToDoApp.API/todo.db



4. Test Query

SELECT * FROM Users u

SELECT * from ToDoItems tdi

SELECT * from LoginHistories Lh

ToDoItems 1 x

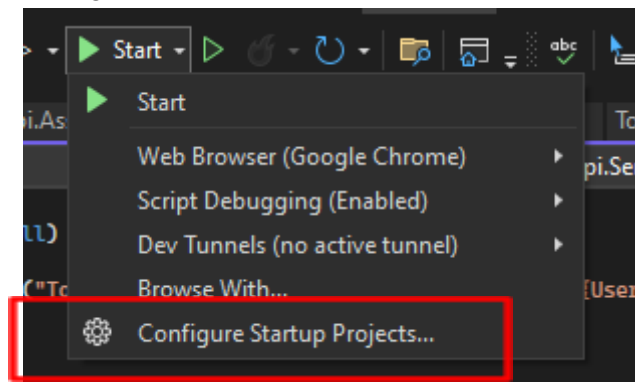
Enter a SQL expression to filter results (use Ctrl+Space)

Grid	ActivitiesNo	Subject	Description	Status	UserId	CreatedDate	IsActive	ModifiedDate
1	AC-testUser	Test API	First Testing	2	testUser	2024-10-04 11:46:58.5296284	1	2024-10-06 18:30:27.9620245
2	AC-20241004testUser0001	Test API	First Testing	1	testUser	2024-10-04 12:48:56.41559	1	2024-10-06 18:30:32.1223259
3	AC-4WHA0W0001	Test API	First Testing	3	testUser	2024-10-04 13:06:52.8425747	1	2024-10-06 18:58:53.0858629
4	AC-DN31AL0001	Test API	First Testing	3	testUser	2024-10-06 14:44:32.9229182	0	2024-10-06 18:58:57.9914304
5	AC-6ACMOK0001	das	dasd	2	testUser	2024-10-06 14:45:31.7486228	0	2024-10-06 17:20:36.8193948
6	AC-W7RGLV0001	Test lagi hehe	Okee fix	2	testUser	2024-10-06 14:53:47.4865944	0	2024-10-06 18:32:33.7409127
7	AC-A0H96H0001	Add ToDo	For Readme	2	testUser	2024-10-06 18:06:45.078326	0	2024-10-06 18:09:27.674752
8	AC-HUUZQW0001	Mengerjakan readme and fixing API	90%	2	testUser	2024-10-06 18:31:04.0370734	0	2024-10-06 18:31:40.8214721
9	AC-BQWQPZ0001	Pagination and optimized big data	Done	2	testUser	2024-10-06 18:32:27.5213608	0	2024-10-06 18:58:40.7326269
10	AC-O90A7U0001	Test Payload Delete	??	3	testUser	2024-10-06 18:33:58.3947653	0	2024-10-06 18:34:03.4818545

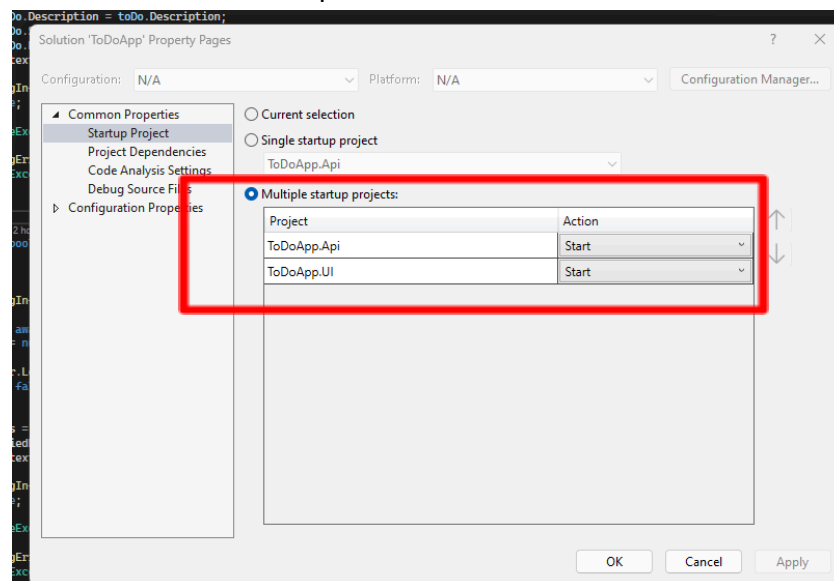
5. Buka folder directory project tersebut melalui Visual Studio atau boleh langsung klik file .sln

Name	Date modified	Type	Size
.github	10/5/2024 4:29 PM	File folder	
data-protection-keys	10/4/2024 4:06 PM	File folder	
Screenshoot	10/6/2024 7:41 PM	File folder	
ToDoApp.Api	10/6/2024 10:18 PM	File folder	
ToDoApp.UI	10/6/2024 10:21 PM	File folder	
.dockerignore	10/5/2024 2:21 AM	DOCKERIGNORE File	1 KB
.gitignore	10/6/2024 8:21 PM	Git Ignore Source File	1 KB
docker-compose	10/6/2024 9:57 PM	Yaml Source File	1 KB
README	10/6/2024 7:42 PM	Markdown Source File	7 KB
ToDoApp.sln	10/6/2024 11:31 AM	Visual Studio Solution	2 KB

6. Setting Multiple Startup pada visual studio, agar tidak menggunakan dua window untuk running. Karena aplikasi ini bersifat monolith. **Disarankan untuk jalan terpisah antara BE dan FE (Single)** untuk menghindari miss socket



Pilih Multiple, dan set action ke Start



7. Jika anda ingin menggunakan docker, silahkan buka terminal, lalu ketik pada command prompt “docker-compose up —build”

```

PS D:\Test Insura\ToDoApp\ToDoApp> docker-compose up --build
time="2024-10-06T23:05:36+07:00" level=warning msg="D:\\Test Insura\\ToDoApp\\docker-compose.yml: the attribute `version` is obsolete
, it will be ignored, please remove it to avoid potential confusion"
[+] Building 31.0s (36/36) FINISHED
=> [todoapp-api internal] load build definition from Dockerfile                                docker:desktop-linux 0.0s
=> => transferring dockerfile: 1.09kB                                                    0.0s
=> [todoapp-ui internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 688B                                                       0.0s
=> [todoapp-ui internal] load metadata for mcr.microsoft.com/dotnet/sdk:8.0                0.2s
=> [todoapp-api internal] load metadata for mcr.microsoft.com/dotnet/aspnet:8.0           0.2s
=> [todoapp-api internal] load .dockerignore                                              0.0s
=> => transferring context: 464B                                                          0.0s
=> [todoapp-ui internal] load .dockerignore                                              0.0s
=> => transferring context: 464B                                                          0.0s
=> [todoapp-ui build 1/9] FROM mcr.microsoft.com/dotnet/sdk:8.0@sha256:df188b6cb642450d83d3d857a992bbbf248212fd456dcb9ae582d 0.2s
=> => resolve mcr.microsoft.com/dotnet/sdk:8.0@sha256:df188b6cb642450d83d3d857a992bbbf248212fd456dcb9ae582ddd1bb96dce 0.2s
=> [todoapp-api base 1/2] FROM mcr.microsoft.com/dotnet/aspnet:8.0@sha256:30d8619d9a4f68508d9b17fc2088e857e629d3f9ceaaf57c22d 0.2s
=> => resolve mcr.microsoft.com/dotnet/aspnet:8.0@sha256:30d8619d9a4f68508d9b17fc2088e857e629d3f9ceaaf57c22d6747f7326d89e 0.2s
=> [todoapp-api internal] load build context

```

Tunggu Hingga Selesai seperti dibawah. Jika container telah berhasil di create aplikasi anda sudah bisa running. Buka docker lalu open browser pada host yang tersedia

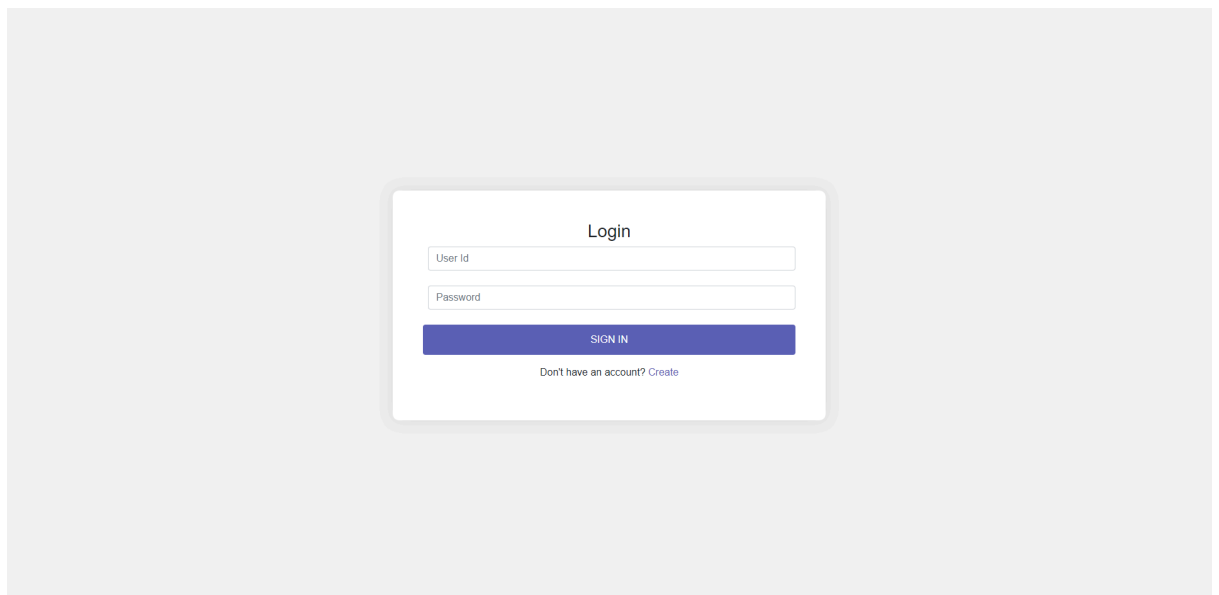
```

[+] Running 2/2
✓ Container todoapp-todoapp-api-1 Recreated 0.3s
✓ Container todoapp-todoapp-ui-1 Recreated 0.3s
Attaching to todoapp-api-1, todoapp-ui-1

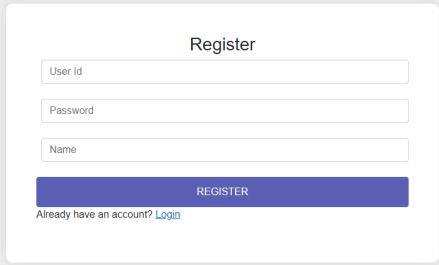
```

Cara Menggunakan Aplikasi

1. Running Aplikasi pada Visual Studio atau Docker. Maka akan muncul halaman login

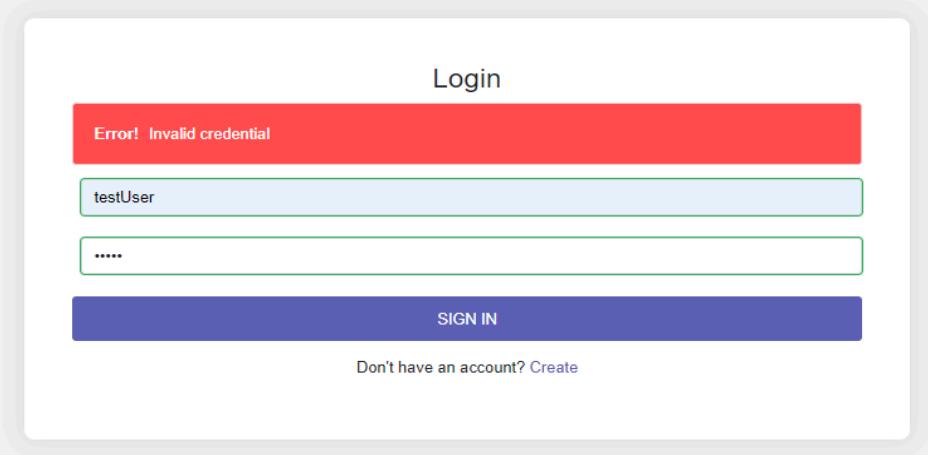


Jika anda belum memiliki akun, silahkan register.



A registration form titled "Register" with three input fields: "User Id", "Password", and "Name". Below the fields is a blue "REGISTER" button. At the bottom, there is a link: "Already have an account? [Login](#)".

Disini saya telah memiliki akun yaitu dengan userId **“testUser”** dan password **“testPassword”**



A login form titled "Login" with two input fields: "testUser" and "*****". Above the fields is a red error message: "Error! Invalid credential". Below the fields is a blue "SIGN IN" button. At the bottom, there is a link: "Don't have an account? [Create](#)".

Jika salah akan muncul pop-up diatas berdasarkan handling error dan response dari Backend

2. Setelah Login maka akan masuk ke halaman utama

Add New ToDo

Subject

Description

Add ToDo

UNMARK

Activities No	Subject	Description	CreatedDate	Status	Action
<div>PreviousNext</div>					

DONE

Activities No	Subject	Description	CreatedDate	Status	Action
AC-6ACMK0001	das	dasd	10/6/2024 2:45:31 PM	Done	<div>Done</div> <div>Delete</div>
AC-W7RGLV0001	Test lagi hehe	Okee fix	10/6/2024 2:53:47 PM	Done	<div>Done</div> <div>Delete</div>
AC-ADH96H0001	Add ToDo	For Readme	10/6/2024 6:06:45 PM	Done	<div>Done</div> <div>Delete</div>
AC-HUJZQW0001	Mengerjakan readme and fixing API	90%	10/6/2024 6:31:04 PM	Done	<div>Done</div> <div>Delete</div>
AC-BQWQPZ0001	Pagination and optimized big data	Done	10/6/2024 6:32:27 PM	Done	<div>Done</div> <div>Delete</div>
<div>PreviousNext</div>					

CANCEL

Activities No	Subject	Description	CreatedDate	Status	Action
AC-DN31AL0001	Test API	First Testing	10/6/2024 2:44:32 PM	Canceled	<div>Canceled</div> <div>Delete</div>
AC-O90A7U0001	Test Payload Delete	??	10/6/2024 6:33:58 PM	Canceled	<div>Canceled</div> <div>Delete</div>
<div>PreviousNext</div>					

3. Silahkan tambah data, edit, cancel atau delete data Todo List nya. Semua data yang sudah di input bisa di reverse ke status sebelumnya. Sesi ini berjalan secara Realtime tanpa anda harus melakukan klik button save.
4. Untuk menghindari timeout data karena terlalu banyak, saya menggunakan sistem clean code agar tidak banyak proses yang berjalan dan menggunakan metode pagination. Setiap satu page akan di batasin maksimal 5 data, data selanjutnya akan masuk ke halaman berikutnya.

DONE

Activities No	Subject	Description	CreatedDate	Status	Action
AC-DN31AL0001	Test API	First Testing	10/6/2024 2:44:32 PM	Done	<div>Done</div> <div>Delete</div>
AC-6ACMK0001	das	dasd	10/6/2024 2:45:31 PM	Done	<div>Done</div> <div>Delete</div>
AC-W7RGLV0001	Test lagi hehe	Okee fix	10/6/2024 2:53:47 PM	Done	<div>Done</div> <div>Delete</div>
AC-ADH96H0001	Add ToDo	For Readme	10/6/2024 6:06:45 PM	Done	<div>Done</div> <div>Delete</div>
AC-HUJZQW0001	Mengerjakan readme and fixing API	90%	10/6/2024 6:31:04 PM	Done	<div>Done</div> <div>Delete</div>
<div>PreviousNext</div>					

10/6/2024 6:31:04 PM

Previous

Next