

## To Do

System requirements:

- Visual Studio 2022
- Visual Studio Code
- Node.js
- Docker Desktop
- A web browser

For run the application have 2 options:

### 1. With Docker Desktop

- Pull backend image with this command: `docker pull mutlusakirnur/todoappbackend`
- Pull frontend image with this command: `docker pull mutlusakirnur/todoappfrontend`
- Create Sql Server on Docker with this command on Command Prompt:

```
docker run -it \  
-e "ACCEPT_EULA=Y" \  
-e "SA_PASSWORD=A&VeryComplex123Password" \  
-p 1433:1433 \  
--name sql-server-2022 \  
mcr.microsoft.com/mssql/server:2022-latest
```

The backslash (\) is used to nicely format the command arguments on separate lines for bash-like shells. For CMD you can use the caret symbol (^) instead of (/), and for PowerShell you can use the backtick symbol (`) instead.

After downloads are completed, run the images. For example:

```
docker run --name todoappservice -p 5001:80 mutlusakirnur/todoappbackend
```

```
docker run --name todoapp -p 4200:80 mutlusakirnur/todoappfrontend
```

and then, open `http://localhost:4200` in web browser

### 2. With Visual Studio Code and Visual Studio

- Extract files from archive
- Open TodoList folder in Visual Studio Code
- In terminal run this command : `ng serve`
- If pc doesn't have angular/cli this command give an error, install with this command: `npm install -g @angular/cli`
- For frontend no need to "npm install command" because files include `node_modules`. But it gets any error, `node_modules` file can be delete by user and after that run "npm install".
- Create Sql Server on Docker with this command on Command Prompt:

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docker run -it \  
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The backslash (\) is used to nicely format the command arguments on separate lines for bash-like shells. For CMD you can use the caret symbol (^) instead of (/), and for PowerShell you can use the backtick symbol (`) instead.

- Open TodoListService project in Visual Studio
- Run the project either with the docker-compose option or with TodoListapi -> TodoList.
- Open <http://localhost:5001/swagger/index.html>
- Be sure Sql Server must run in Docker desktop
- And then, open <http://localhost:4200> in web browser

Informations about the project:

- "TodoList" is frontend project
- "TodoListService" is backend project
- "TodoListTests" is unittest project