POS Project 2023

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Topics

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- Tech Stack
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  - documentation/presentation
- Product/Code presentation
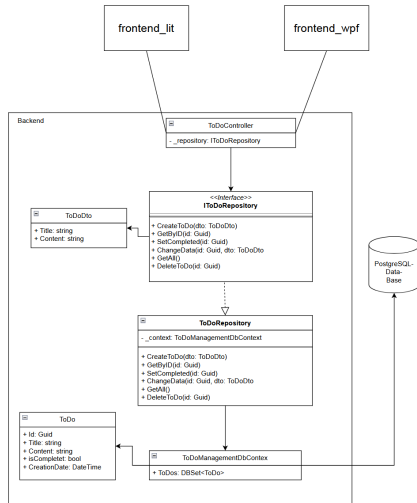
General Information

What is the idea behind the project?

- simple ToDo application
  - focus on web frontend (as easy to use as possible)
  - also a wpf frontend (less focus)
  - backend to store data in a database

What can the application do?

- Create ToDos
- Edit ToDos
- Delete ToDos
- Set ToDos completed
- and of course view ToDos
- both clients support all features (wpf less intuitive)

Architecture

backend

- implemented in ASP.net (C#)
- provides HTTP endpoints
- Database:
    - PostreSQL (Data manipulation with Entity Framework Core)
    - Docker container

Tech Stack

frontend_lit

- Web based client
- implemented in Lit (typescript)
    - light weight library for creating Web Components
    - markup, script and styling for part of page in one file (clearer)
- provides both light and dark theme
- mobile friendly responsive design
- custom CSS

frontend_WPF

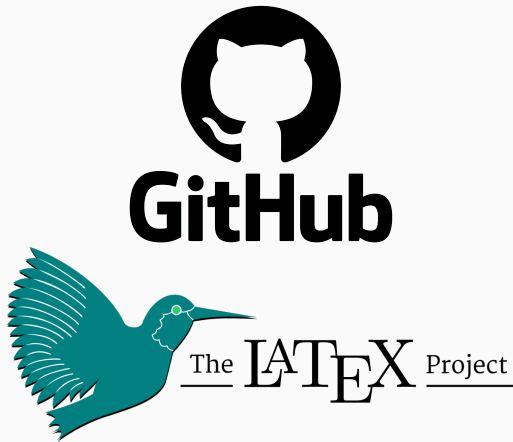- Desktop Client implemented in Windows Presentation Foundation (C#)
- dark theme

Tech Stack/used technologies

Documentation
- written in Markdown
- accessible in GitHub Repo in Wiki

Presentation
- not written in PowerPoint
- written in Markdown
- converted to LaTeX Beamer with pandoc

Code/GUI presentation