```
OpenAIAPI api;
             public OpenAiApiController()
Challenge D

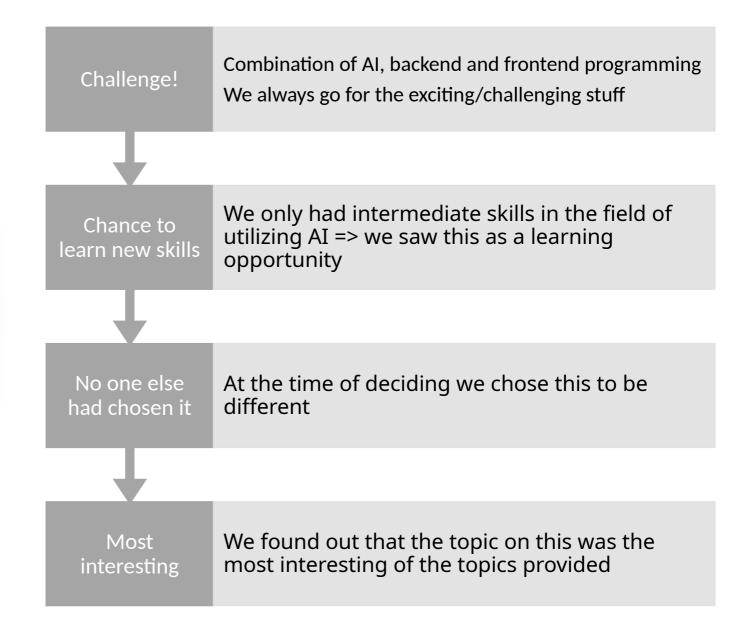
(Energy Consumption Profiling
                      Application)
             public async Task<string> GetQueryResult(string query)
                 Plantagen var chat = api.Chat.CreateConversation();
                 chat Roope Mantere, Vertti Nuotio
                 return await chat.GetResponseFromChatbotAsync();
             public async IAsyncEnumerable<string> AnalyzeElectricityUsage()
30
```

Energy Consumption Profiling Applica tion

- Our objective was to create an Energy Consumption Profiler for the "Average Joe"
- Goals for the application
 - O Show some sort of suggestions for the user on the UI
 - O Give Joe information on their performance in energy usage



Why Challenge D?



You

Suppose we want to use the OpenAl API to process the data and get information. Ho

Approach

Formulate questions the user wants answers to

"When did I use the most/least energy"

Usir Where should I shift my usage to ing data and extracting information involves the

following general steps. Keep in mind that as of my last update in January 2023, the

Use ChatGPT: Specific details may have changed, so it's advisable to refer to the latest OpenAl API Give some basic information

docupload the entire CSV filest accurate information.

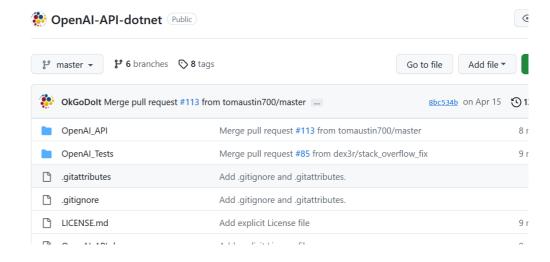
Ask how well the user managed their energy usage/times

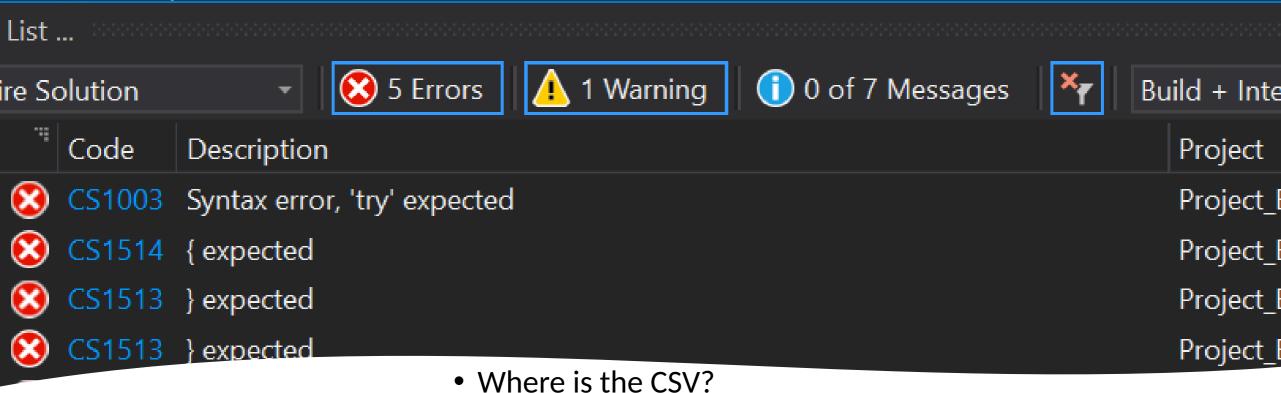
1. Set Up Your Open Al Account: Give text-based feedback to the user

If you don't have an OpenAl account, sign up and create a new project to obtain API

Choosing tools

- Github was already set up
- Decided to use C#
- Visual Studio 2019
 O ASP.NET Core project
- External libraries:
 - O CSVHelper
 - OpenAI-API-dotnet by OkGoDolt (Github)



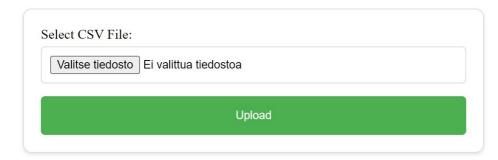


Challenges

- Unfamiliarity with .NET front end coding
- Can't upload the whole CSV (too large)!
 O We'll need another way...
- Running out of time!

Results

Upload Your Energy Data





OpenAl API works!

Can easily get answers to queries



Could upload the energy data CSV file to the application



No time to properly merge these



Foundation for functionality



Chosen tools and environment was perfect

Experience kept us from using it to full potential