Task

You have been provided with two product manuals. Both of these manuals have similar troubleshooting sections (these can be found page 9 of the fan manual and pages 32-33 of the treadclimber manual). Your task is to produce a solution that is able to extract the troubleshooting information from these manuals and others like them (it can be assumed that any other manuals will have similarly structured troubleshooting sections).

- Your solution should allow for a manual to be uploaded via an API endpoint. The troubleshooting information should be included in the response of this endpoint, or in the response of another endpoint depending on how you choose to implement your solution.
- The troubleshooting information that your API endpoint responds with should be json and should accurately represent the structure of the troubleshooting sections in the manuals.
- You should also specify the locations of each troubleshooting issue in the document, so that a front end application would be able to display citations of these sources (you do not need to produce the front end aspect of this)
- It can be assumed that manuals will always be PDFs

If you require the use of any LLMs, you should use the Open AI API (a reimbursement of up to $5 is available for development costs). Other than this, the choice of tech stack is up to you.

If you have any questions, feel free to email jamescoates@bridgesocialcare.com.

Submission

Email a ZIP file or link to the GitHub repository of your solution to jamescoates@bridgesocialcare.com. You should include setup instructions as part of your submission (feel free to produce a Dockerfile/docker-compose if you think this is easiest).