# Lilly Technical Challenge Documentation Template

*This documentation template serves as a place for you to discuss how you approached this challenge, any issues you faced & how you overcame them, or any other points that you feel would be relevant for the interviewers to know. The text in italics is here to guide you - feel free to remove it once you fill out each section!*

***Not every section in this document is required. This is just a template to help get you started. Feel free to add or remove sections as you feel necessary.***

## Approach and Objectives

*How did you approach this challenge? Did you work through the objectives in any particular order? If so, why? Did you utilize any external resources, such as tutorials, guides, or other materials?*

* Started with the first objective, getting the sample data on the screen by fetching the data from the ‘get medicines’ API that was already given as all the other objectives fed off of that one.
  + I researched online1 how to fetch data and pass the data into a function to display the data in a table. I found that quite straightforward to understand, however creating that function was tougher.
* I completed the second objective at the same time as it was essential to the functionality of the first. I added a fallback mechanism for the name and the price to recognise when the field was empty/null.
* I then attempted objective four which involved bringing the table I’d created in the javascript file to life in the html and css files.
* Objective three was the toughest because I wasn’t familiar with form submission in web development. I learnt that event.target could be used to attach to the form element using various online tutorials 2, 3

## Objectives - Innovative Solutions

*For the challenge objectives, did you do anything in a particular way that you want to discuss? Is there anything you're particularly proud of that you want to highlight? Did you attempt some objectives multiple times, or go back and re-write particular sections of code? If so, why? Use this space to document any key points you'd like to tell us about.*

## Problems Faced

*Use this space to document and discuss any issues you faced while undertaking this challenge and how you solved them. We recommend doing this proactively as you experience and resolve the issues - make sure you don't forget! (Screenshots are helpful, though not required).*

* Whilst working on the submission form, I discovered that the server had to be running. I’d thought that it wouldn’t have had an effect on the webpage, but since it fetches the data from the API, I realised it needed to be.

## Evaluation

*How did you feel about the challenge overall? Did some parts go better than others? Did you run out of time? If you were to do this again, and were given more time, what would you do differently?*

I spent a little more time than was indicated I should on the challenge. What I got through went well and was successful but took me some time to get right.

Given more time, I would attempt the optional objective of creating a backend function to average the prices of all the medicines.

1 <https://www.geeksforgeeks.org/how-to-use-the-javascript-fetch-api-to-get-data/>

2 <https://developer.mozilla.org/en-US/docs/Web/API/HTMLFormElement/submit_event>

3 <https://javascript.info/forms-submit>