

Requirements

How did you determine the software requirements?

Since the app would be dealing with databases the main requirements would be:

- An easy-to-use menu
- Good connection from code to database
- Proper error handling
- Input validation
- Code easy to maintain and understandable
- Credentials check

Which are functional and non-functional?

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Software Development Methodologies

What are some of the different approaches to software development?

The two main development methodologies are Agile and Waterfall. The Waterfall method is the oldest and it works by going to all the process of production until the finished product at once, with little to no involvement of the client. This can lead to

dissatisfaction with the final product and with no means of correcting it since it would have to make the whole process again.

The Agile method is newer, and it breaks down the whole process into smaller pieces, each with its own full cycle of design, coding, testing and deployment, the difference is that the customer is always in contact throughout the steps, so any changes are easier to accomplish.

What approach did you take, and why?

Agile method would fit more in my approach, I kept rethinking and redoing some parts of the code that I thought it was better to write differently, usually when I went to a more advanced step and realised that if I've done something different with a previous step it would be easier going forward.

Reflections – what would you do the same/different next time?

I would probably take more time thinking about the design of the code, I went a bit much with coding as I went and started to branch my train of thought a lot thinking about future needs, it is probably the way that I'm naturally inclined to do but would probably make my life easier if I had a better step by step planning.

Project Tracking Overview

What was your strategy for using Git and GitHub?

I have both a laptop and a desktop so my main use for GitHub is to ensure that I can work on both machines with the code updated, this allowed me to work remotely when I needed to, and my changes would be shared with my desktop where is better to work. Also of course for backups in case something explodes.

Reflections – what would you do the same/different next time?

I consider that I worked well using Git, the only thing that I could see myself improving is the frequency on the updates, the more the merrier.