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I implemented one design, then attempted to layer another on top of it, and then attempted to repeat the process with the third. Because I didn't have a plan for all of the patterns that would be utilised, I had to force them into the code in an unnatural manner. I now have a much clearer picture of the problem. If a pattern makes sense, it should be employed; but, it should not be used solely for the sake of using it. I didn't have too many surprises along the process, but in hindsight, I should have planned ahead of time to incorporate all four patterns into the design. In a GUI environment, just providing a basic idea of how I would approach that would have been extremely helpful.

Future outcomes is i would like to implement a GUI which requires a different skill set . I realize now why the projects have a front-end and a back-end part.I would also love to implement a mySQL database.