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I write programs that are maintainable, readable, and adaptable by following best practices such as avoiding “bidirectional associations between models and eliminate the ones that are not needed. This helps with performance, loose coupling, and produces simpler and more easily maintainable code” (Alex Giamas, 2019). When I consider my work on the CRUD Python module from Project One, the benefits of working in this way were the elimination of unnecessary cascading, life cycle events, and special characters. This made my code more readable and understandable for both people and my machine. I also tried to Give Meaningful variable Names, write smaller classes and Functions, and add Comments with Value.

As a computer scientist, I approach a problem first by gathering system requirements. In the case of the database or dashboard requirements that Grazioso Salvare requested, this required a System Design as well as code Implementation, Integration, and Testing. My approach to this project was different from previous work in other courses because I was given existing code to modify rather than having to develop the system from scratch. This was, in my opinion, more difficult as I have found that Coding from scratch allows for much more freedom and customization.

Computer scientists do theoretical research as well as problem-solving, using technology. Computer scientists are also interested in arithmetic analysis, computational complexity, computer graphics, and programming languages. I learned thus far, not only about the design, development, and analysis of software but also how to solve problems in different business, scientific and social contexts.

Citations

Alex Giamas. (2019). Mastering MongoDB 4.x : Expert Techniques to Run High-volume and Fault-tolerant Database Solutions Using MongoDB 4.x, 2nd Edition: Vol. 2nd ed. Packt Publishing.