Journal portfolio

CS 340

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Creating legible, flexible, and maintainable programs involves following best practices in software development. This includes using clear and descriptive variable names, organizing code into logical functions and classes, writing documentation, and adhering to coding standards and style guidelines. In the case of the CRUD Python module from Project One, following these principles allowed for the creation of a reusable and modular component that could easily Link the dashboard widgets to Project Two's database. The benefits of operating in this manner include improved code readability, easier debugging and maintenance, and the ability to adapt the module for future use in different projects.

As a computer scientist, approaching a problem involves breaking it down into smaller, more manageable tasks, identifying the requirements and constraints, and devising a plan to address them. For the database and dashboard requirements requested by Grazioso Salvare, this approach involved understanding the data structure and relationships, designing an appropriate database schema, and implementing the necessary functionality to interact with the database and visualize the data in the dashboard. This project was not like the other assignments from other classes by requiring a combination of database design, backend development, and frontend visualization skills. In the future, techniques and strategies such as agile development methodologies, iterative design, and collaboration with stakeholders would be valuable in creating databases to fulfill more demands from clients.

Computer scientists play a crucial role in solving complex problems, developing innovative solutions, and advancing technology. In the context of this project, the work done on the dashboard would help Grazioso Salvare to better manage and analyze their data, make informed decisions, and improve their operations. By providing a user-friendly interface for exploring and visualizing animal shelter data, the dashboard enables Grazioso Salvare to track trends, identify areas for improvement, and communicate insights effectively. Ultimately, the work of computer scientists helps companies like Grazioso Salvare to leverage data and technology to achieve their mission more efficiently and effectively.