COP FINAL PROJECT

Justin Scandale, Tsega Teshome, Swan Theurin

Overview:

This project aims to develop an application utilizing C++ that facilitates task management of users in the form of a “To-do” Application. This application allows users to create, update, delete, and prioritize tasks efficiently. It employs object-oriented programming ideas to ensure modularity and maintainability. Additionally, it was written with a plethora of comments and clearly defined variables to ensure both comprehensibility and readability for any user.

Details of Implementation:

1. Classes
   1. Event
   2. Priority Queue
2. Functions
   1. sortByPriority
   2. addEvent
   3. removeEvent
3. How to Run
   1. $ g++ -o runner.out main.cpp -std=c++17
   2. $ ./runner.out
   3. Follow terminal instructions to utilize application.

Challenges:

1. I/O Operations & Input Validation
2. Sorting algorithms for task prioritization
3. Maintaining readability
4. Working Collaboratively

Contributions:

Justin Scandale:

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Tsega Teshome:

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Swan Theurin:

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Conclusion:

Implementing this To-do application in C++ provided valuable, hands-on experience in software development with a reinforced understanding of object-oriented programming concepts. Additionally, practical application of the data structures learned in COP 4530 were utilized and a connection between the theory and application of computer science was seen for the group. This application serves as a functional tool for task management and can be further enhanced with additional features in the future.