# 1.Conclusion

Our software project, Miner’s Coffee, is a next-generation GPU mining software. It has succeeded in providing more powerful functionalities and better user experiences. Compared with existing software of the same type, it integrates more system utilities for state monitoring and hardware configuration, has more interactions with end-users, and provides more elegant graphical representations of data. Nevertheless, there is still much space for further improvement.

## 1.1 Difficulties and what we learned

When adding a database to the project, we found that conventional languages such as MySQL would require users to input passwords, which would greatly reduce the user experience. So, we chose a lightweight database such as SQLite for data storage.

Since we are not familiar with the interface between the mining pool and NVIDIA, we need to process a lot of data and build data structures to make the software more convenient to use.

Since we did not decide the precise program interface in the beginning, we need to re-create the interface when we have new user events and requirements. This caused amount of work to re-design the functions. It has enlightened us to work as a team with effective communication.

## 1.2 Further improvement

1. Support more types of cryptocurrencies.
2. Support more mining pools.
3. Support more mining cores.
4. Support AMD/Intel GPUs.
5. Implement more diversified and graceful graphs to visualize data.
6. Perform dynamic overclocking history analysis and provide user with more useful advice.