# 1.Conclusion

To provide more powerful functions and better user experiences, our group has initiated a next-generation GPU mining software named Miner’s Coffee. Compared with existing software of the same type, it integrates more system utilities for state monitoring and hardware configuration, more interactions with end-users, and more elegant graphical representations of data. Of course, we met some difficulties and some features are still need to be improved.

## 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. The program hope to be able to accept more bitcoin currencies
2. The program hope to be able to accept more mining pools and cores
3. The project hopes that we can use more diversified graphs to display data.
4. The program hopes to implement dynamic overclocking history analyse in the future and give user more useful advice
5. Our program hopes to accept more GPU types in the future.