CHAPTER 6

SUMMARY AND CONCLUSION

6.1 Summary

In the world, the pray time for muslims is different between each a place to another, depends on the positions of the longitude and latitude. The knowledge of starting and ending the time for prayers fundamental is the crucial thing to all muslims. Application of longitude and lalitude in calculation of prayer time in real system nowadays not a new invent in world of engineering technology. However, with rehashed this theory concept of GPS data as a method of getting the longitude and latitude in calculation of the prayer time was a good idea to evolve it function. The counting pray time system which developed in real time system make this project appropriate to develop further for enhances of the system. Since the method of calculation on pray time is wide, the research of this project will be based only on the the receive of GPS data via GPS receiver module.

For this project, the main scope is to calculate the prayer time using microcontroller based on the longitude and latitude data collected by GPS receiver module and display via LCD screen. Based on the problem occurred, a research has been conducted on the effectiveness of this knowledge base on the calculation method for prayer time. The system is a combination of hardware and software program. Obviously, this invention project within procedure involves the knowledge base approach. This system with equipped high standard of GPS receiver module and microcontroller circuitry helps the user to calculate the pray time automatically in order to obtain the exact time for muslims to fulfill their responsibility to the religion without any difficulty of knowing the pray time. In good condition where the GPS can receive the precise position of the user, the prayer time will automatically calculate.

The user can choose the prayer time using the keypad and the result will be display on the LCD screen. The time will be based on the real time clock.

6.2 Conclusion

As the conclusion, the project has a several potential advantages which give the benefit to all muslims to practice their religion appeal such as:

- *Realibility*

  The project can be used anywhere, anytime and any wheather without worrying the obstacle occurred. User can bring it together to the workplace, camping and travel.

- *Save time*

  Depend on the application, time saving can be significant. Often the most darmatic example involve the chore of finding the exact location manually. User need to know the longitude and latitude by searching it from internet or maps. The time is wasted here and the information of the position of them may be not confirm precise or not.

- *Reduce cost*

  To go and knowing the exact position of users, they need to take out extra money to get the information in addition to search by internet. With this system. User only need to turn on the device and the calculation occurred by itself. It is not only save time but save the cost at the time.

6.3 Recommendation for Future Project

For the future project, there are several things can be added in order to make it as a mulipurpose device. There are many thing can be added or altered such as:

- The LCD screen can be changed with seven segment for the usage of the prayer time in wide area such as in mosque. Therefore, user can see the pray time from faraway.
- In order to remind muslims that the time for pray has came, the Athan can be included.
- The direction of the Qiblah also can be putted in order to give the direction for Muslims to pray.