Chapter 8

Conclusion and Future Work

8.1 Introduction

This final chapter of the thesis discusses the conclusion and future works. Conclusion will be on the thesis’ aim, method used and contribution made. Also, it explains the aim of the thesis and method used in order to achieve that aims. It also discusses the contributions made by this thesis. Future works section elaborates how to extend and enhance the thesis in the future.

8.2 Aims and Method

The aims of Personal Islamic Asset Management System using Object-oriented Approach are as follows.

- To identify sources of Islamic asset and procedure of managing them.
- To develop an object-oriented implementation model in managing the asset in Islamic way.
- To develop a system for managing personal Islamic asset and identify the proper channel of distribution.
• To evaluate the system usability and system metrics.

The research methods used were literature review and interview. The literature review was undertaken to have further understanding of the research problem in order to design the system using object-oriented software engineering approach. The interviews were undertaken to fulfill other requirements for Personal Islamic Asset Management System using Object-oriented Approach.

The first aim was to identify sources that will be considered as Islamic asset and procedure of managing them. Investigation on which asset is consider as Islamic assets and the procedure of managing those assets in Islamic way has been done. A detailed literature review in chapter 2 and analysis on data collected from interviews in chapter 3 provided an understanding for the system sources as well as the procedure of managing them.

The second aim was to develop an object oriented implementation model in managing the asset in Islamic way. The Personal Islamic Asset Management System using Object-oriented Approach was developed via object-oriented model. The study on how to model the system based on object-oriented model has been done. Requirement analysis and design that has been done in chapter 4 and chapter 5 provided understanding for the system model.

The third aim was to develop a system for managing personal Islamic asset and identify the proper channel of distribution. The proper channel to distribute the Islamic asset was found through the interview session. The analysis of collected data in chapter 3 has identified the proper channel in distributing and receiving the Islamic assets. The
requirement needed in developing the system was discussed in chapter 4 and the system model using UML has been detailed out in chapter 5.

The forth aim was to evaluate the system using usability testing and software metrics. The result from the usability testing was summarized in chart format. The finding from the usability testing has been analyzed and discussed as in chapter 7. The system has been measured using object-oriented metric which was also explained in chapter 7.

8.3 Contributions Made by This Thesis

This thesis is within the context of Personal Islamic Asset Management System using Object-oriented Approach in particular and object-oriented software engineering in general. Consequently, the thesis has contributed to two groups of research that is public and object-oriented software engineering.

The thesis has contributed to the public in the following ways:

- Provide one stop center for public users to manage their personal Islamic assets.
- Provide detail information about Islamic asset management especially for zakat, fidiah, waqaf and heritage.
- Provide calculator in helping user to calculate their zakat, fidiah and heritage.
- Provide the guidelines and calculator to determine the zakat and fidiah receiver.

The thesis contributed to the field of object-oriented software engineering in the following ways:

- Through the development of the system. The system can be used to provide the understanding of object-oriented software engineering approach.
• Through the analysis and design. The analysis and design of Personal Islamic Asset Management System using Object-oriented Approach can be used as a model in object-oriented software engineering system development.

• Through system measurement. The Personal Islamic Asset Management System using Object-oriented Approach can be used as a model in object-oriented metrics measurement.

8.4 Future Works

This thesis has generated many ideas that can be further researched on or improved. Some of these ideas are briefly presented below:

• Online payment.

• Enhancement of heritage calculator.

• Online registration for zakat and fidiah receiver.

• Online financial report.

• Online asset registration for waqaf.

8.4.1 Online payment

Online payment means that user can make payment for their zakat and fidiah through the system. For this purpose, the system have to be integrated to the system at Pusat Zakat and Jabatan Agama Islam for each state as well as the bank. Before making the payment, user has to register with Pusat Zakat or Jabatan Agama Islam to get their zakat and fidiah ID.


8.4.2 Enhancement of heritage calculator.

Enhancement of heritage calculator means that instead of having the fraction as a portion for each heir, the calculator can produce the result in RM value. For this case, user need to enter the heritage asset value in RM and the calculator will calculate the portion for each heir both in RM and fraction. It will further enrich the system.

8.4.3 Online registration for zakat and fidiah receiver.

The public user can register as zakat and fidiah receiver from the system after calculation of their eligibility using the kifayah calculator has been done. The data will be sent to Pusat Zakat or Jabatan Agama Islam for each state depending on the residency of the registered users.

8.4.4 Online financial report.

Online financial report means that user can view the financial report for the particular year through the system. The financial report is for the zakat, fidiah and waqaf. The report should display the collection and distribution of zakat and fidiah for each particular year. For waqaf, the report may describe the asset, value, location and what have been done with the waqaf asset.

8.4.5 Online asset registration for waqaf.

Online asset registration for waqaf would enable user who wants to waqaf their asset, to simply register it via the system. The system will send the data to the Jabatan Agama Islam of the particular state.
8.5 Conclusion

The thesis has been developed using object-oriented software engineering approach. The system is capable of managing user’s personal Islamic asset such as zakat, fidiah, heritage and waqaf. In addition, the system gives detailed information about these assets including calculator to calculate zakat, fidiah, heritage as well as kifayah. The features of the system can be extended to be integrated with online payment, online registration for zakat and fidiah receiver, online financial report, online asset registration for waqaf. Lastly, the further enhancement can be done on the heritage calculator.