

Chapter 4

REQUIREMENT ANALYSIS AND DESIGN

4.1 Introduction

This chapter describes the requirement analysis and the design of the system. Analysis of essential functional and non-functional requirements gathered during the design process is also discussed in this chapter. The requirements comprise essential design elements. For example, a use case diagram is used to understand the requirements of the whole system. Various other diagrams, such as use case diagrams, sequence diagrams, and activity diagrams, are drawn to represent each use case in greater detail to visualize the functional requirements. In addition to that, the design of the system architecture, the design of the database, and the design of the interface will each be briefly described in this chapter.

Requirement Analysis

The functional and non-functional requirements of the system are discussed in this section. These requirements were gathered from the stakeholders of the system.

1.1.1 Functional requirements

1.1.1.1 Use Case Diagram

1.1.2 Non-functional requirements

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1.2 Project Design

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1.3 Database Design

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1.4 Interface Design

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1.5 Chapter Summary

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Table 4.1 Regression analysis for the results of preliminary feature screening