

CHAPTER IV
ANALYSIS AND DESIGN

4.1 Analysis

4.1.1 Use Case Diagram

The user can input data krs to schedule an exam, can update the data room when the room change capacity, could enter the lecturer in charge of the keeping room in every test, so all that processed the user will enter on the keypad generate and all data will be processed by programs that have been created so that the wearer can see directly schedule the test automatically and when it is finished the user can exit the program.

This is use case in the manufacture of the exam schedule:

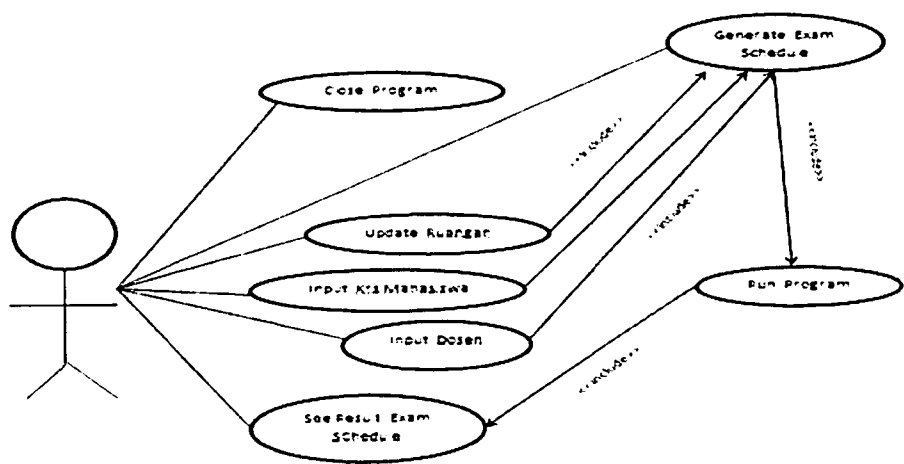


Figure 4.1 Use Case Diagram

4.2 Design

4.2.1 Class Diagram

in the class diagram of the steps at the start is a student and courses data will be processed and incorporated into the KRS after that will be in the process of using an algorithm that Powell-Welch will be continued into the kind of Schedule that would take the final data from the process of the algorithm and the data of the room, a lecturer at the end result will process all of the data into automated test schedule.

This is class diagram in the manufacture of the exam schedule:

