

RDBMS Applications as Online Based Data Archive: A Case of Harbour Medical Center in Pekanbaru

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Abstract : Kantor Kesehatan Pelabuhan Kelas II Pekanbaru is a government office that concerns about healthy, especially about environment health. There is a problem in case of saving electronic data, also in analyzing daily data both for internal and external data. The office has some computers and other tools that are useful in saving electronic data. In fact, the data are still saved in available cupboards and it is not efficient for an important data that is analyzed for more than one time. In other words, it is not good for a data is needed to be analyzed continuously. Rational Data Base Management System (RDBMS) application is an online based saving data and it uses System Development Life Cycle (SDLC) method. Hopefully, the application will be very useful for employees Kantor Kesehatan Pelabuhan Pekanbaru in managing their work.

Keywords: RDBMS, Data, Kantor Kesehatan Pelabuhan Kelas II Pekanbaru.

1. Introduction

Harbour Medical Center or *Kantor Kesehatan Pelabuhan* Pekanbaru is a government office that is concerning about environmental health. Nowadays, it manages registration of Umrah pilgrims and also notes pilgrims' vaccine records. All of data are written and they are saved in papers. As stated before, it is very harmful for daily routines in that office. This way of saving data is not efficient when it is just put on papers about pilgrims' registration. After registering, pilgrims will get vaccine and of course the previous data is needed again to do vaccine. If the data is still in written form, there will be problem in doing back up of the data. In fact, Harbour Medical Center Pekanbaru has computers and other supported tools in applying an online based application.

Web-based information system is also an efficient promotion tool and it is a source of information that is very useful for its users when they can find any important information needed in their life. Relational Data Base Management System (RDBMS) is a structured listing data and saved in a hard disk then its objective is to create accessible data quickly and easily (Kadir, 2008).

After doing preliminary observation at Harbour Medical Center Pekanbaru, the study found some problems to be solved, they are: (1) There is no electronic saving data system while computers and other supported tools are available, so daily data management is still saved in written form. It will be very not effective to analyze same data more than one time (continuously). (2) is no integrated system yet about saving archive Pekanbaru data that employees feel hard in working.



Then the writer line out the problem in carrying out this research as below:

- 1) How is applying online based application and data base as data archive media in helping analyze daily data at Harbour Medical Center?
- 2) How is implementing online based system at Harbour Medical Center Pekanbaru in order to be more efficient to serve the community?

2. Research Method

Research method explains some steps in solving problem to reach the goal, can be seen in figure 1 as follow:

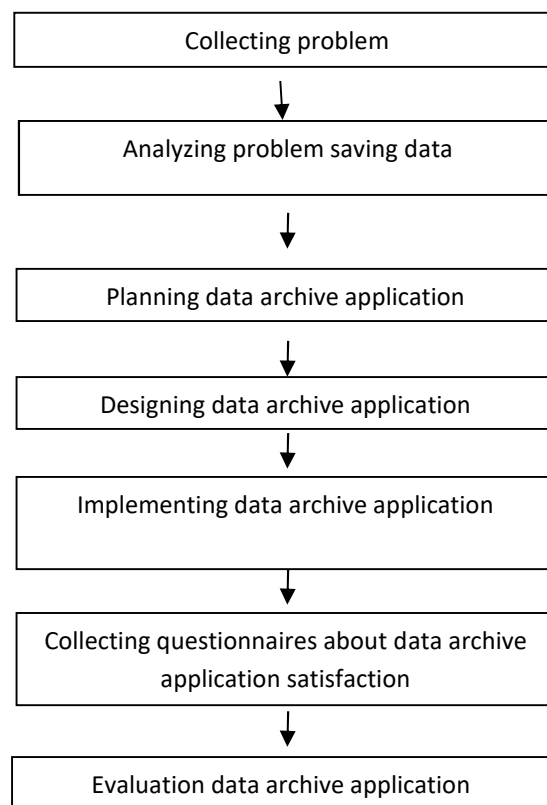


Figure 1. research method

Picture shows steps to be applied start from collecting and analyzing problem up to solving problem in archive data saving at Harbour Medical Center Pekanbaru.

3. Result and Discussion

Before starting, the writer had collected some questionnaires about data analysis by employees of Harbour Medical Center Pekanbaru and it was filled by international certificate vaccine (ICV) seekers, where the samples were taken one last week.

System planning steps used is unified modeling language (UML) method.

3.1 Usecase Diagram

Usecase diagram in planning the system Applications as Online Based Data Archive Media at Kantor Kesehatan Pelabuhan Pekanbaru can be seen in picture 1.2:

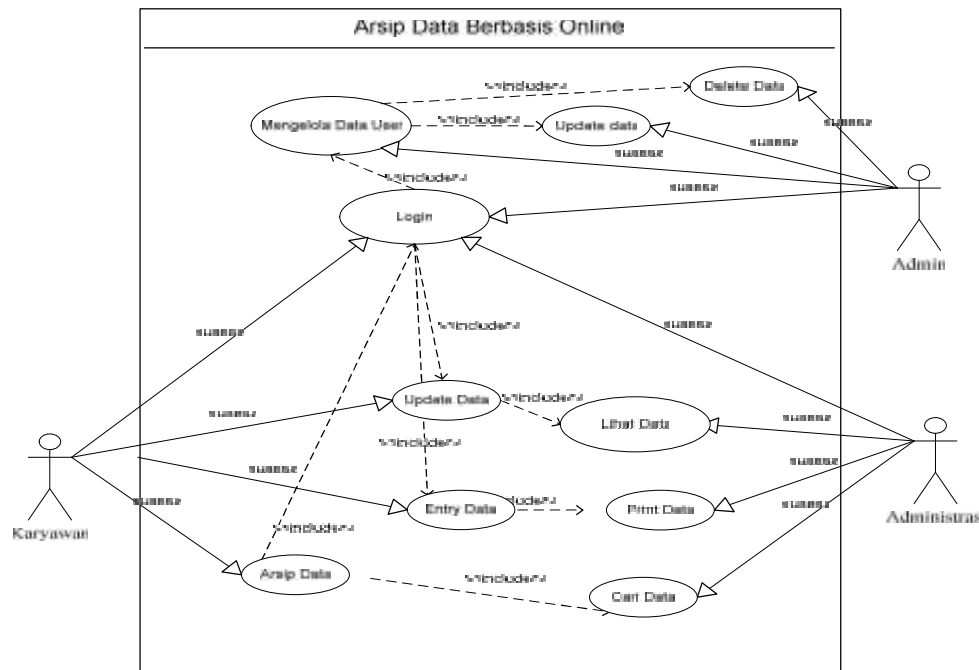


Figure 2. Use Case-Diagram

3.2 Activity Diagram

Activity diagram in planning the system can be seen in picture 1.3:

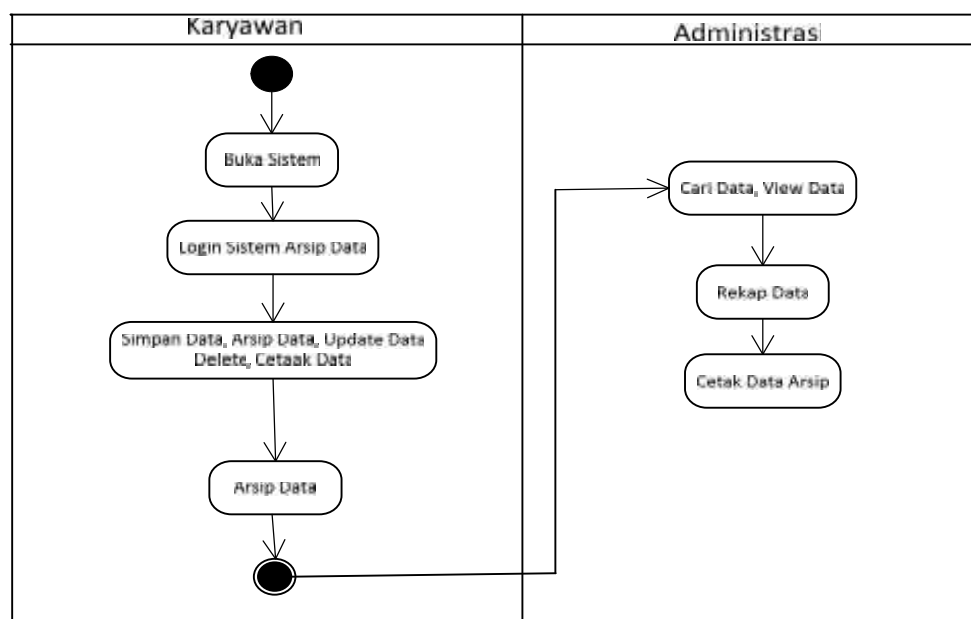


Figure 3. Activity Diagram

3.3 Class Diagram

Class diagram in planning the system can be seen in picture 1.4:

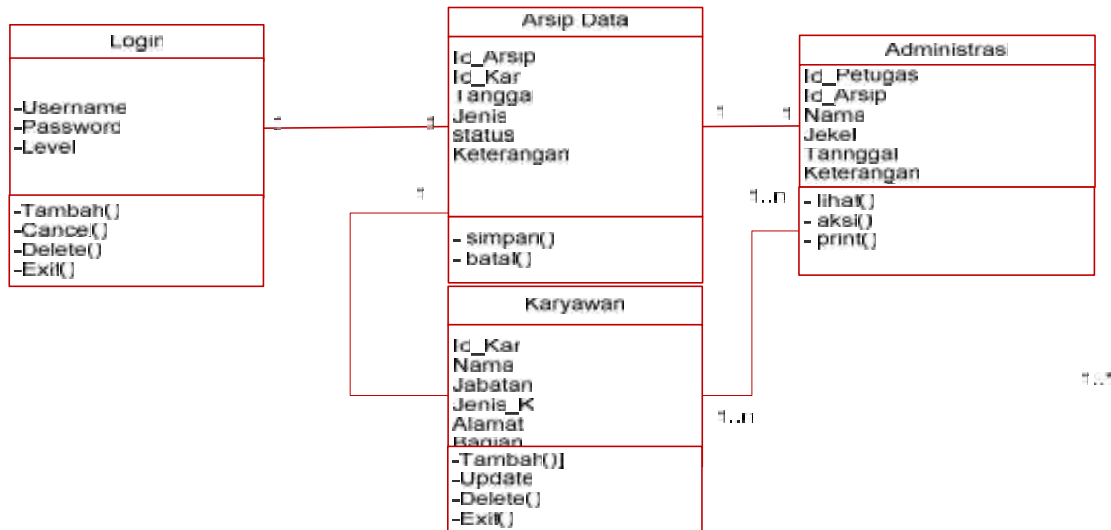


Figure4. Class diagram

4 Result

After implementing created application at Kantor kesehatan pelabuhan pekanbaru, then the writer give questionnaires about data archive application satisfaction to employees that use application.

Table 1

The questionnaire raw data

	1	2	3	4	5	6	7	8	9	10	Jlh
1	4	3	3	3	3	3	4	4	3	3	59
2	4	4	5	3	4	4	4	4	4	4	68
3	4	4	5	4	4	4	4	4	4	3	66
4	3	3	4	3	3	3	3	4	1	1	51
5	4	4	4	4	3	3	3	4	3	3	46
6	4	3	5	4	3	4	4	4	3	3	60
7	4	3	5	4	3	4	4	4	3	3	60
8	3	2	4	3	3	3	4	4	1	1	49
9	4	3	5	4	2	4	4	4	4	4	63
10	3	3	5	4	3	4	3	3	3	4	63
11	4	3	5	4	4	4	4	3	3	4	68
12	4	3	5	4	3	4	3	4	3	3	60
13	4	3	5	4	3	4	4	4	2	2	53
14	4	3	4	3	3	3	4	4	3	3	53
15	4	3	5	4	4	4	4	4	3	3	61
T	57	47	69	55	48	55	56	58	43	44	532
M	3.8	3.1	4.6	3.7	3.2	3.7	3.7	3.9	2.9	2.9	3.6

From the tabulation on table above, there is *mean* with score 3.6, it means that participants know and satisfied of the RDBMS application as electronic data analysis media. In compare to the preliminary observation, participants' knowledge about RDBMS is increase in using the application.

5 Conclusion

Result of evaluation the application at Kantor Kesehatan Pelabuhan pekanbaru concludes that:

- 1) Implementation of data archive application is appropriate to the objective of research to increase data analysis by applying RDBMS application in analyzing electronic data with score 3.6 point is bigger than before 2.1 point.
- 2) Planning by using Unified Modeling Language (UML) method is very helpful to employees in building data archive application.

6 Suggestions

Considering easiness of online based data archive application in analyzing electronic data, so writer gives some advices:

- 1) It is really need to give additional time to learn more about RDBMS in order to get better comprehension about the application.
- 2) Also, it is need to add more respondents in evaluating data archive application RDBMS to the system in order to evaluate the program well.

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