EXPERT SYSTEM APPLICATION FOR CRIMINAL ISSUES RESULT IN LOST THEIR LIVES WEB-BASED

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Indonesian as a constitutional state already have criminal law regulations is kitab undang-undang hukum pidana (KUHP) that have hundreds section. Criminal law problems is very complex, so that it is hard for common people to understand and choose the regulations who straighten up a special case. Still not yet a not understand about law caused a confusion factor for common society when they involved on criminal case.

This application maked for knowing base of the law who used if someone who have doing a criminal action and make someone else lost their life. Construction this application use inferensi forward chaining method and depth first search as searching method, programming language use PHP and mySQL as database.

The system build is website base. It is for make easier information delivery who can accsessed wherever to society who want to know base of the law used on law enforcement in Indonesian and also consultations process can do faster.

***Kata Kunci** : KUHP, forward chaining, Depth First Search, PHP*

1. INTRODUCTION

1.1 Problem Identification

Base on explanation of background problem who was present. Then, formulation of the problem is :

1. The less of society knowledge about base of the law used in criminal action who make someone else lost their life.
2. The less of socialitation from instance/institutions who have connected with this criminal action case.
3. Because there are a little expert in a certain field, so many time expelled for consultation.

1.2 MEANING AND OBJECTIVE

Meaning

Maksud dari pembuatan tugas akhir ini meaning of production this last task is to build an expert system software for criminal action problem who make someone else lost their life.

objective

The objective who want to reach in building an expert system software to criminal action who make someone elselost their life web based is :

1. Help user or society to know the base of law who make someone else lost their life.
2. As help media for estimate what the regulations can round up someone if involved this criminal.
3. To render efficient the time whwn looking for information about this criminal action.
4. To transfer expertise somenone who expert in law sector to the computer, so his knowledge can use by non expert people.

1. MODEL, ANALYSIS, DESAIN, AND IMPLEMENTATION

2.1. Model

1. Collect data step
2. document research
3. field research
4. interview

5. observation

2. Developing of software step
a. *System engineering*
b. *Requirement analysis*
c. *Design*
d. *Coding*
e. *Testing*
f. Maintenance

2.2. Problem Analysis

1. Comparations between total expert and society not balanced.
2. Limitedness sevice tool for consultation.
3. Law problem which happen in society make hard law expert to explain to society lively.

2.3. Expert System

Expert system also called “knowledge-based system”. It is a computer application which objective for help decision making or problem solution in specific sector. This system work using knowledge and analysis method which already definitioned by expert on that field. This system called expert system because function and character same like a expert who must have knowledge, experience on solving a problem. The system usually have function as important key which help a decision support system or executive support system.

2.4. Desain

1. Decision Tree

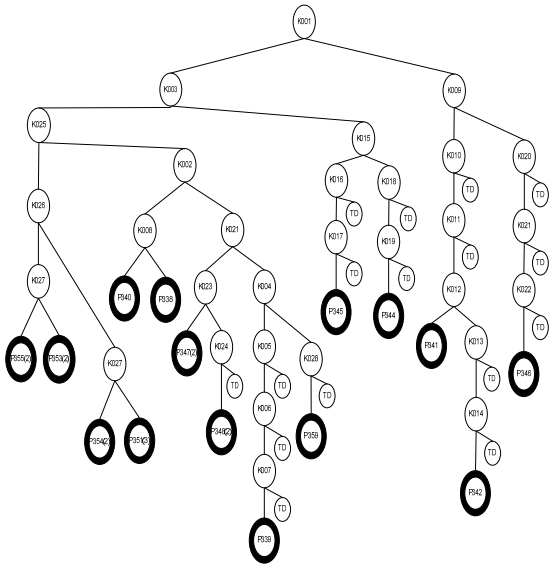


Image 1. Tree diagram

2. ERD (*Entity Relationship Diagram*)

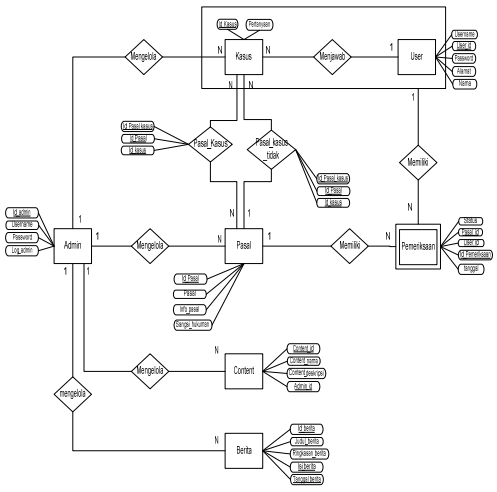


Image 2. ERD (*Entity Relationship Diagram*)

3. Relation Table

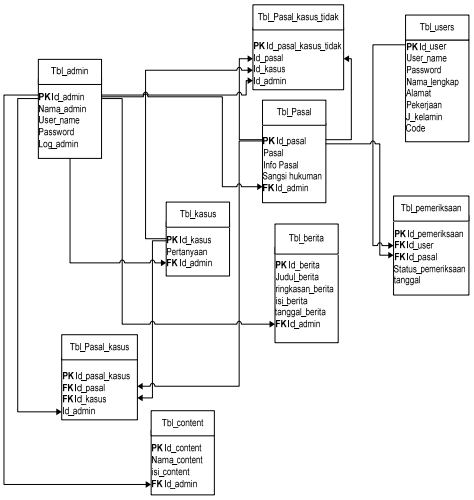


Image 3 Tabel Relasi

4. Context Diagram

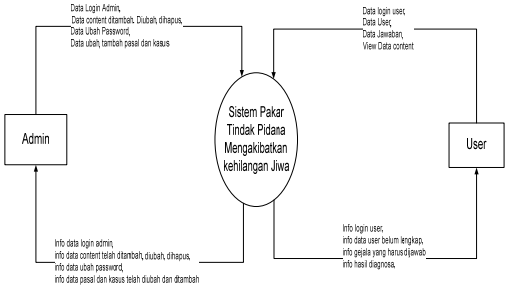


Image 4 Context Diagram

5. DFD (Data Flow Diagram)

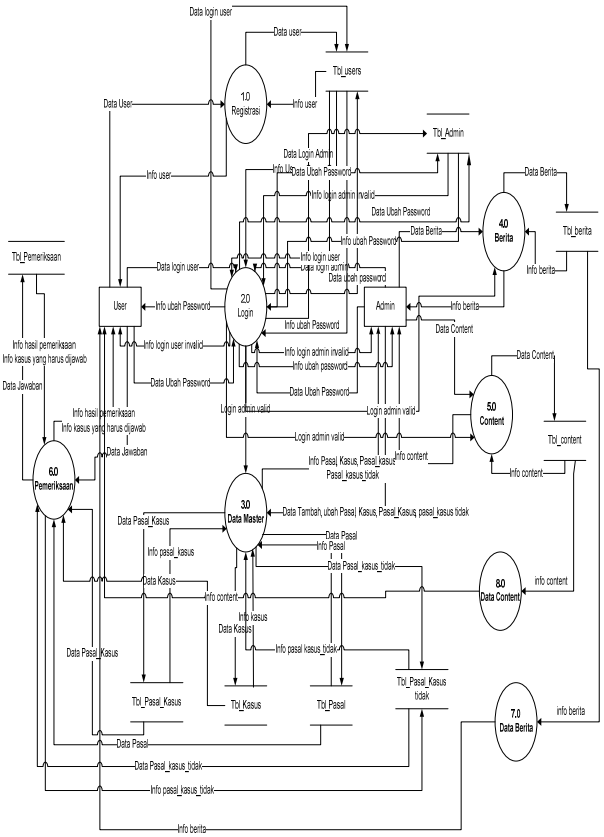


Image 5. DFD Level 01

3. RESULT AND DISCUSSION

Expert system application has builded have ability (sebagai berikut) :

1. Able to estimate base of law can use to round up someone in criminal actions who can make someone else lost their life
2. Make society doing consultation process more easy.
3. To render efficience time consultation for society

4. CONCLUSION AND SUGGESTION

4.1 Conclusion

After trial and analysis the program, then get conclusion (seabagai berikut) :

1. The user system already maked can doing.

2. Admin system can do process increasing, erasing, and different of data for case in a sure regulation.

3. Expert system has builded facilitate society to know base of the law in criminal act who make someone else lost their life.

4. Facilitate society to looking for new information about criminal actions who make someone else lost their life.

4.2 Suggestions

From the conclusions, then can (kemukakan) suggestions which can help to developing this software fot the next time:

1. Needed more deep research for the analysis because the problems is social problem which have not a standart system.
2. On admin system, if happen increasing data be more complex, admin must desaign flexsible tree and database. So admin can do system management easier.
3. Developing program with use option method more level up again

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