INFORMATION SYSTEM OF RECORDING MUSIC STUDIO RENTAL D-GIRAC MUSIC WORKSTATION

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ABSTRACT

Has been done research in music recording studio rental D-Girac Music Workstation with method waterfall, and applies method structural that is Entity Relationship Diagram (ERD) to depict data model, and Data Flow Diagram (DFD) to depict functional model. Result of research indicates that music recording studio rental D-Girac Music Workstation faces difficulty in managing data yielded by studio, scheduling rental, remuneration of officer, and management of finance, where system is being run done in manual.

Based on result of examination, information system music recording studio rental D-Girac Music Workstation which has been built hardly required by studio manager to water down in managing data yielded, gives complete and clear information about name of cutomer?client of owner of data result of record, name of studio officer having responsibility serves cutomer?client in process of record, and instrument applied at record process, and waters down scheduling process of rental and waters down remuneration process of officer, later on will water down earnings counting, studio expenditure, and counting of loss and profit month.

Keyword : information system, music recording studio.

1. INTRODUCTION

1.1 Identification of Problems

How to building studio information system rental music record D-Girac Music Workstation ?

1.2 Purpose dan Objectives

Intention from writing of this end duty is to build studio information system rental music record D-Girac Music Workstation.

While purpose of which will be reached in this research is :

1. *Help the side of management of studio to manage data yielded by music sound stage.*
2. *Gives complete and clear information about :*
   a. *Name of cutomer?client of owner of data result of record and mixing.*
   b. *Name of operator and sound engineer having responsibility serves cutomer?client in process of record and mixing.*
   c. *Instrument applied at record process and mixing.*
3. *Help scheduling process of record and mixing where cutomer?client orders record schedule and mixing.*
4. *Help remuneration process of studio officer that is operator and sound engineer.*
5. *Help earnings counting and studio expenditure, later on will water down counting of loss and profit month.*

1.3 Benefits

Benefit gotten in studio information system rental music record D-Girac Music Workstation built can :

1. *Help the side of management of studio to manage data yielded by music sound stage.*
2. *Gives complete and clear information about :*
   a. *Name of cutomer?client of owner of data result of record and mixing.*
   b. *Name of operator and sound engineer having responsibility serves cutomer?client in process of record and mixing.*
   c. *Instrument applied at record process and mixing.*

3. *Help scheduling process of record and mixing where cutomer?client orders record schedule and mixing.*
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2. MODEL, ANALYSIS, DESIGN AND IMPLEMENTATION

2.1 Model

1. *Data collection phase*
   a. *Study library*
   b. *Field study*
      b.1 Interview
      b.2 Observations
2. *Software development stage.*
   a. *System engineering (Rekayasa perangkat lunak)*
   b. *Requirement analiysis*
   c. *Design*
   d. *Coding (implementasi)*
   e. *Testing (pengujian)*
   f. *Maintenance (perawatan)*

2.2 Problem Analysis

Problem happened begins from management the many data covering data result of record and data result of mixing. This thing causes difficulty in obtaining information about name of cutomer?client (studio Iodger), instrument list applied, and name of officer that is operator and sound engineer having responsibility serves cutomer?client in process of record and mixing. In the end this problem can cause the data is converted and even can lose unconsciously. Besides, management of studio also finds difficulties in arranging the many record schedules and schedule mixing which has been ordered by cutomer?client, this thing causes management of studio difficult to calculate earnings because earnings reckoned from number of record receipts and mixing. As for difficulty experienced by in counting expenditure, this thing is caused [by] difficulty in calculating the many expenditure notes, besides expenditure counting also gotten from operator salary amounts and sound engineer month, where management of studio also finds difficulties in managing remuneration of operator and sound engineer because his(its difficult to arranging scheduling of record and mixing. Because earnings counting and expenditure difficult to be done hence in the end generates difficulty in calculating balance.

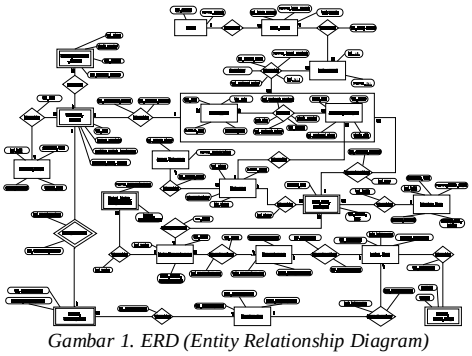
2.3 Definition of Music Recording and Mixing

Said record that is often laid open at public area especially in music world actually more acurately is told recording, but in in reality people is more tends to tells record. Difference from recording word and record in music scope that is if recording was processed, way, and activity removes or immortalizes nature voice, man, castanets, etcetera into cassette ribbon, saucer, or other media with a other mike and tape recorder, while saying record to mean result from recording, in music scope and sound stage music means is a song.

Term mixing comes from language inggris, mix mean mingling, while inmuhan - ing in saying mixing to refer to existence of activity accompanying mixing process. In music scope, said mixing to mean mixing process, blend, and compensating of sound from castanets voice, man vowel voice, and voice from source of other voice which has been recorded at record process. So process mixing is kelajutan from record process.

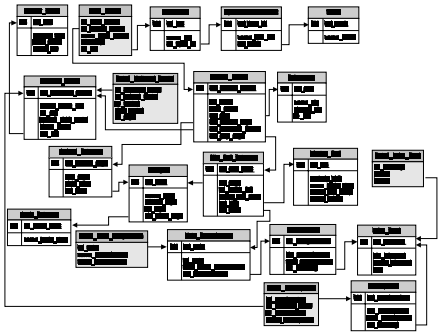
2.4 Design

1. ERD (Entity Relationship Diagram)



Gambar 1. ERD (Entity Relationship Diagram)

2. Table Relation



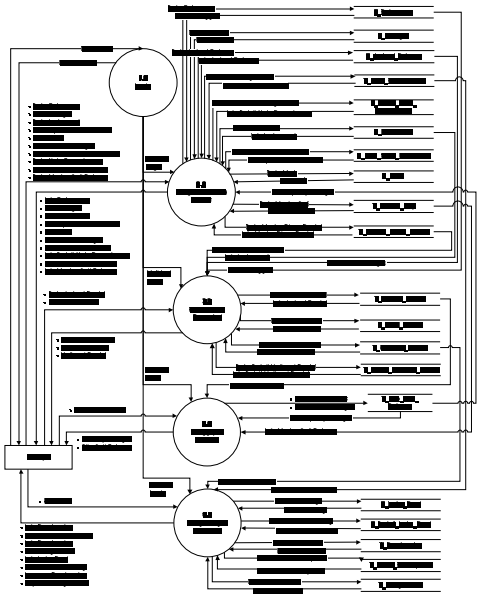
Gambar 2. Table Relation

3. Context Diagram



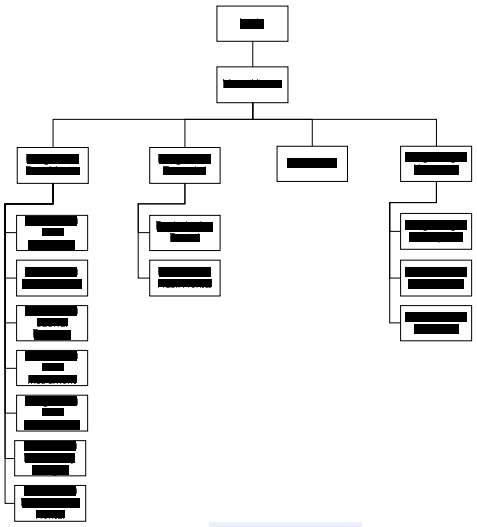
Gambar 3. Context Diagram

4. DFD (Data Flow Diagram)



Gambar 4. DFD level 0

5. Struktur menu bagian admin



Gambar 5. Menu structure

2.5 Implementation

1. Software Implementation

Software attached at computer system applied to build this information system is as follows :

1. *Operation System Windows XP SP 2.*
2. *MySQL 5.0*
3. *Borland Delphi 7.0*

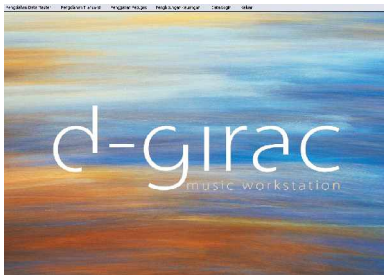
2. Hardware Implementation

Hardware applied for Pengoperasian this information system is 1 computer unit with specification of as follows :

1. *Processor core 2 duo 1,8 Ghz*
2. *Monitor 15”*
3. *Hardisk Drive 80 Gb*
4. *Memory/RAM DDR2 512 Mb*
5. *VGA Card 1024 x 768 pixel*
6. *Keyboard*
7. *Mouse*

3. Interface Implementation

1. Menu Dislpay



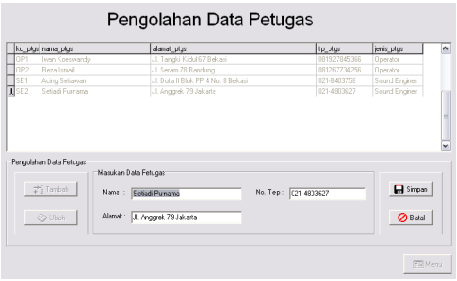
Gambar 6. Menu Display

2. Pengolahan Data Pelanggan Dislpay



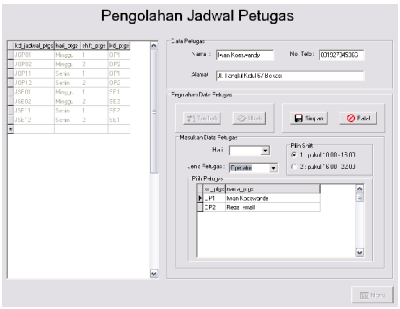
Gambar 7. Pengolahan Data Pelanggan Display

3. Pengolahan Data Petugas Dislpay



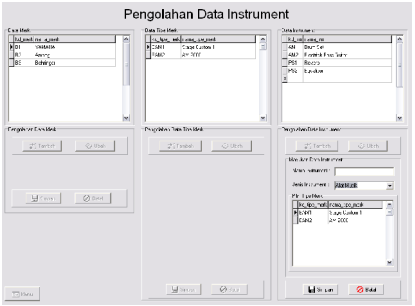
Gambar 8. Pengolahan Data Petugas Display

4. Pengolahan Jadwal Petugas Dislpay



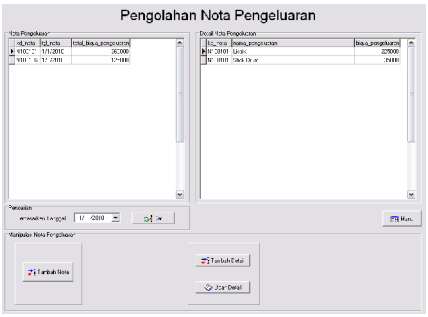
Gambar 9. Pengolahan Jadwal Petugas Display

5. Pengolahan Data Instrument Dislpay



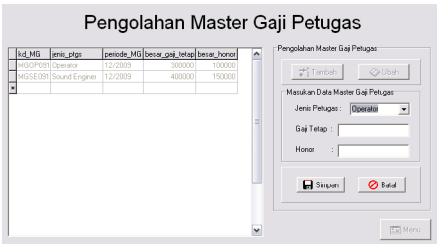
Gambar 10. Pengolahan Data Instrument Display

6. Pengolahan Nota Pengeluaran Dislpay



Gambar 11. Pengolahan Nota Pengeluaran Display

7. Pengolahan Master Gaji Dislpay



Gambar 12. Pengolahan Master Gaji Display

3 RESULTS AND DISCUSSION

Information system built has ability as follows :

a. *Yields revenue report and expenditure month, and calculates balance month.*
b. *Can process data result of rental and scheduling process swiftly.*
c. *Can yield infomasi cutomer?client identity.*
d. *Can print receipt rental and officer salary slip.*

4. CONCLUSIONS AND SUGESSTIONS

4.1 Conclusions

Conclusion to studio information system rental music record D-Girac Music Workstation built can :

1. *Help the side of management of studio to manage data yielded by music sound stage.*
2. *Gives complete and clear information about :*
   a. *Name of cutomer?client of owner of data result of record and mixing.*
   b. *Name of operator and sound engineer having responsibility serves cutomer?client in process of record and mixing.*
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4.2 Sugesstions

Based on above conclusion, hence suggestion expected that is as follows :

1. *Exploitation of human resource becoming main material as user in operation of system should have recognized and understood about operation of computer, to can maximize information system performance which has been built, because this thing had an in with effectiveness of time and energy.*
2. *Does expansion towards network information system so that the studio officers can become information system consumer by the way of making its(the music computer (studio computer) as client and manager computer as server.*

5. DAFTAR PUSTAKA

Abas, Erry, (2005). "Memaksimalkan Komputer untuk Musik dan Rekaman", Bandung, Pustaka Bani Quraisy.

Fatansyah, (2004). "Basis Data", Bandung, Informatika.

http://hiphopheroes.net/berbagi-bersama/sharing-teori-untuk-pemula/daw-digital-audio-workstation.html diakses pada tanggal 22 Desember 2009 pukul 10.00.

http://id.answers.yahoo.com/question/index?qid+20090828003237AADubyj diakses pada tanggal 22 Desember 2009 pukul 11.00.

Husni, (2004). "Pemrograman Database Dengan Delphi", Yogyakarta, Graha Ilmu.

Jogiyanto, (1990). "Analisis dan Desain Sistem Informasi", Yogyakarta, ANDI.

Roger, Pressman S, (2002). "Rekayasa Perangkat Lunak Pendekatan Praktisi", Yogyakarta, ANDI.

www.basisdata121v.blogspot.com/2008/12/dbms-database-management-system-dbms.html diakses pada tanggal 15 September 2009 pukul 22.30.

www.warungmusik.net/ruang-kelas/24-audio-recording-a-performance/61-sejarah-singkat-rekaman diakses pada tanggal 24 Desember 2009 pukul 15.15.