E-COMMERCE APPLICATIONS FOR COAL SELLING USING THE SECURE SOCKET LAYER (SSL) CERTIFICATE PROTOCOL SECURITY SYSTEM AND SECURE PHP SCRIPTING IN PT.TRI CHAKTI MAKMUR

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ABSTRACT

PT. Tri Chakti Makmur is a company engaged in the service contractors, procurement, and the goods are coal mines. Coal to market and transact the business side should meet directly with customers.

PT. Tri Chakti Makmur is located in the town of Cilegon Banten, for customers who are outside the city and outside the island will be too far away to make the transaction process and also for the company will be difficult to market their products to customers farther away from the PT. Tri Chakti Makmur. By building applications E-commerce sales of coal which the E-Commerce application of coal sales was enough to have some features that makes it easy to see information about the coal and the price offered. E-Commerce Applications coal sales is also very easy customer in bargaining and ordered coal prices.

Results from research conducted for the development of E-Commerce application of coal sales is easier in terms of marketing the company's coal and transact online. In addition to E-Commerce application of coal sales also facilitate the company to manage customer data, coal, and data transactions, and make it easy for customers outside the city of Cilegon and outside the island of Java in search of coal in accordance with needs.

Keyword : E-Commerce, PT.Tri Chakti Makmur

1. PRELIMINARY

1.1 Identification Problems

How to build Coal sales applications, web-based security system equipped with an SSL protocol and secure PHP scripts

Object Market research conducted in PT.Tri Chakti Makmur Serang Banten

1.3 Objectives

The purpose of the filing of this thesis is to build an e-commerce applications in which there is information about both the levels of coal and coal prices. In addition there are online payment systems and equipped with a security system good enough

As for objectives to be achieved in this research is :

1. To provide information for coal sales to consumers online.
2. Expanding the target market, sales of coal.
3. Provides online transaction systems that facilitate the transaction.
4. Provides a level of acceptable security in online transactions so that customers will feel comfortable in the transaction.

1.4 Benefits

The benefits in the development of E-Commerce:
1. Can provide coal sales information to consumers online.

2. Can provide facilities to conduct bargaining process online.
3. Can provide convenience to the users (staff / admin) in view of the sales transaction reports.
4. Can provide facilities to all users (staff / admin) to enter, modify and delete data.

2. MODEL, ANALYSIS, DESIGN AND IMPLEMENTATION

2.1 Model

a. Data collection phase
  a. Literature Study.
  b. Observation.
  c. Interview.
2. Stage of software
  a. Requirements analysis and definition
  b. System and software design
  c. Implementation and unit testing
  d. Integration and system testing
  e. Operation and maintenance

2.2 Analiysis System

Analysis system can be defined as the decomposition of a complete information system into its component parts to identify the problems and obstacles that may be proposed to the needs repairs. Analysis phase is the most critical stage and is very important, because errors in this stage will cause an error also in the next stage. Analysis of this system obtained through interviews and observations to be found in some data and facts that will be used as test material and the analysis to the application and development of an application of the proposed system.

2.3 Design

1. ERD (Entity Relationship Diagram)

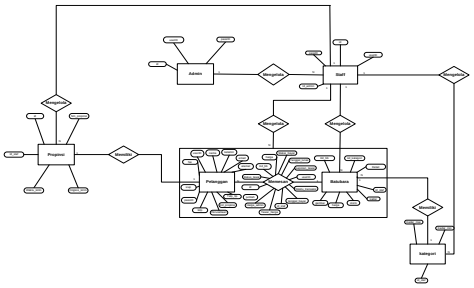


Figure 1. ERD (Entity Relationship Diagram)

2. Relation table

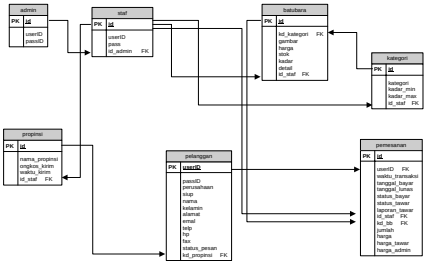


Figure 2. Relation table

3. Diagram Konteks

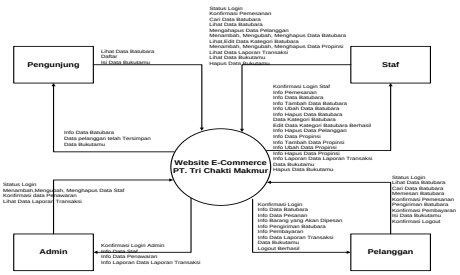


Figure 3. Context Diagram

4. DFD (Data Flow Diagram)

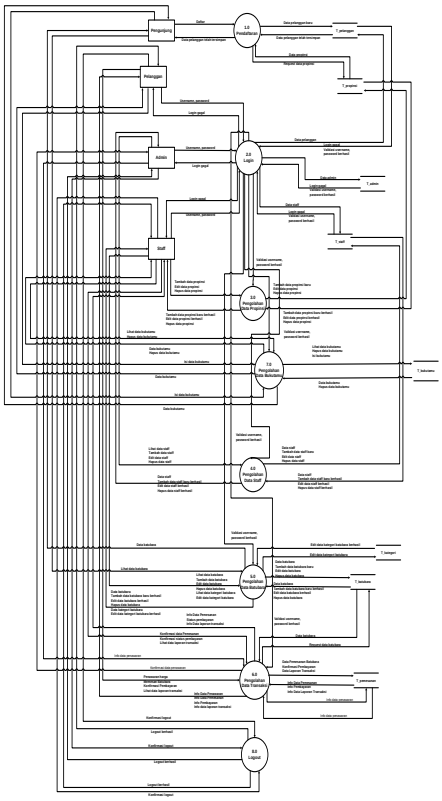


Figure 4. DFD level 1

5. Web admin menu

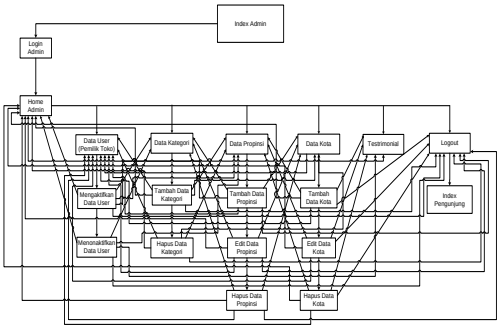


Figure 5. Architecture of the web admin menu.

6. Web visitors menu

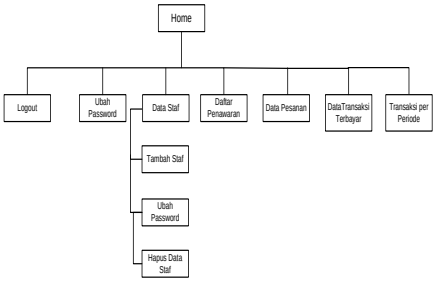


Figure 6. Architecture of the web visitors menu.

7. Web user (visitor) menu

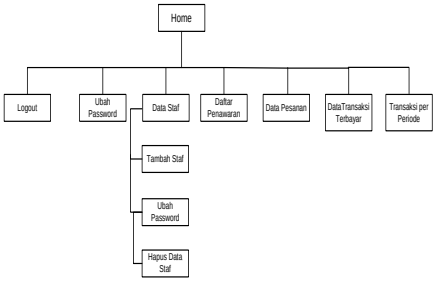


Figure 7. Architecture of the web usr (visitor) menu.

8. Web user (employees) menu

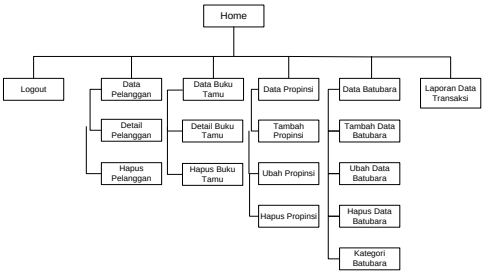
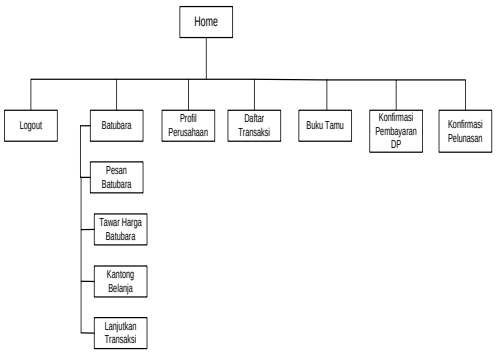


Figure 8. Architecture of the web user (employees) menu.

9. Web costumers menu



Gambar 9. Architecture of the web costumers menu.

2.8 Implementation

Software used on computer systems in building e-commerce website is as follows :

1. Operating systems Windows XP Profesional SP 1.

2. *WAMP for local internet and database storage.*
3. *Macromedia Dreamweaver 8 for writing program code.*
4. *Web Browser to call the windows website*

a. *Main page view visitors*

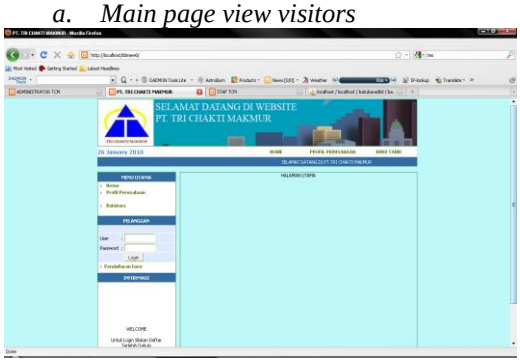


Figure 11. Main page visitors.

b. *Main page views admin*

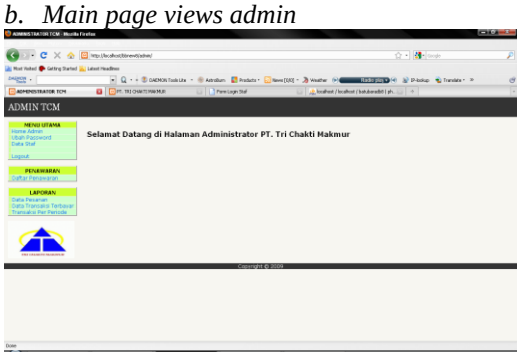


Figure 12. Main page admin.

c. *Main page views user (employees)*

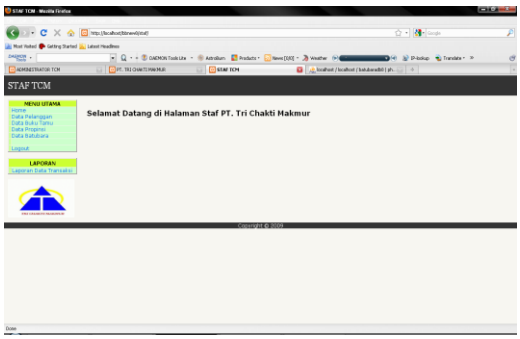


Figure 14. Main page user (employees).

d. *Main page views costumers*

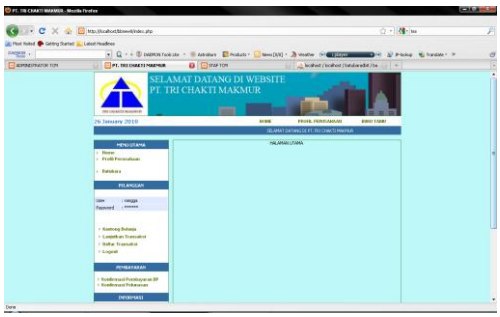


Figure 15. Main page costumers.

3. RESULT AND DISCUSSION

3.1 Facilities Online Fashion Market

Information system built has the following capabilities :

1. *Can provide information selling clothing merchants to consumers online.*
2. *Can provide facilities to traders who will market their products online.*
3. *Can provide convenience to the user (store owner) in view of the sales transaction reports.*
4. *Can provide facilities to each user (store owner) to enter, modify and delete data on the sales of goods in the application E-Commerce website*

3.2 Software

Website E-Commerce will run normally on the following software specifications :

1. *Sistem Operasi Windows*
2. *Web Browser*

4. CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusion

1. *This application can provide information for coal sales to consumers online.*
2. *This application can be expanded target market, sales of coal.*
3. *This application provides online transaction systems that can facilitate the transaction.*
4. *This application can provide tinggkat acceptable security in online transactions so that customers will feel comfortable in the transaction.*
5. *This application can provide a web-based service management is a practical, safe, fast, not limited distance and time, and with a fairly low cost.*

4.2 Recommendations

1. *For further development of E-Commerce Website, not only restricted to serving only the product ordering, but also can serve partners join the process for other companies who want to join.*
2. *The interface can be made more attractive and more user friendly.*

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