

Agricultural Marketplace Website System Design

by dwiyuniarto@unsap.ac.id 1

Submission date: 10-Nov-2023 10:12PM (UTC-0600)

Submission ID: 2224505554

File name: Agricultural_Marketplace_Website_System_Design.pdf (359.71K)

Word count: 1875

Character count: 9959

Agricultural Marketplace Website System Design

1st Beben Sutara
Departemen Computer Science
STMIK Sumedang
Sumedang, Indonesia
bensu@stmik-sumedang.ac.id
Sp. (ETS)

2nd Dwi Yuniarto
Departemen Computer Science
STMIK Sumedang
Sumedang, Indonesia
duart0@stmik-sumedang.ac.id
Sp. (ETS)

Abstract— This research is aimed at designing a web-based agricultural marketplace that is devoted to farmers selling their crops without being tied down by middlemen. This prototype method serves to meet the needs of the software used by this website system. Black box as one of the system testing tools to avoid errors on this website. The results of this study indicate from the benchmark theory that this marketplace system is feasible to use to meet needs. The conclusion is that this web-based agricultural marketplace system is feasible to use because it meets the needs and has been tested for feasibility.

Keywords— Prototype, Blackbox, UX, Marketplace

I. INTRODUCTION (HEADING 1)

So far, the agricultural sector has been underdeveloped because in Indonesia the agricultural sector is still subsistence (a farming system where the main goal is to meet the needs of farmers and their families), and not commercial (profit making). As a result, even though farming is the main source of income for the majority of the population, it cannot yet be characterized by the large number of small farmers.

The general characteristic of small farmers is narrow land ownership, and the source of income from them generally does not only come from the agricultural sector, therefore many small farmers or farmers protest against the middlemen and even the farmers do not want to sell their crops to the farmers. middlemen, due to the large number of agricultural production produced will also affect the rise and fall of prices. If the demand for crops increases and the supply of crops is sufficient, the price of crops will be relatively stable, but if it is not fulfilled, prices will relatively rise or soar. Conditions like this make farmers feel that there is no price certainty, especially when the amount of production is abundant and the purchasing power of middlemen to farmers is relatively cheap and sometimes the selling price received by farmers cannot cover the price of production.

Therefore, a forum was created for farmers to be able to sell their products without having to involve middlemen. The container is in the form of a marketplace website where farmers can sell their products according to the price of production costs or according to the average selling price of production in the market, which is usually done by the middlemen.

II. METHOD

2.1 Data Collection Techniques

In writing this research the data collection technique used is to carry out several activities:

- Observation**
The author goes directly to see and observe the problems being faced by the farmers.
- Interview**
To get correct and accurate data, the author conducts question and answer directly to the farmers to find solutions to the problems they are facing.
- Literature Study**
The author collects data and makes observations from various reading books and journals, especially regarding the design system of a marketplace for farmers with a research topic. So that a strong scientific basis is obtained in the preparation of this research.

2.2 System Development Model

In developing the system, several stages of the system development model that the author uses consist of:

- Listening to customers**
At this stage, identifying problems and gathering requirements from the system is carried out by communicating with users. To create a system that suits your needs, you must first know how to design a marketplace system from the experts.
- Designing and Making Prototypes**
At this stage, the design and manufacture of system prototypes is carried out. The prototype made is adjusted to the needs of the system that has been defined, then the data, interface and coding of the system are carried out.
- trial**
At this stage, the prototype of the system is tested by the user. Then evaluate the deficiencies of customer needs. Then the evaluation stage is carried out on the system, this evaluation stage looks at the results of the system testing stage and then analyzes every error and then fixes it so that it becomes perfect.

3.1 Marketplace

In conclusion, E-marketplace is an electronically interactive business community container and application that provides a market in which it contains the planning and execution of the conception, distribution, pricing, in the form of goods or services with the aim of satisfying individuals and organizations.

Errors in determining the number of distributors will create new problems for the company. If the number of distributors is too small, it will cause the distribution of the

The picture above explains that these are the activity display sections of an agricultural marketplace.

3.3.3 Sequence System

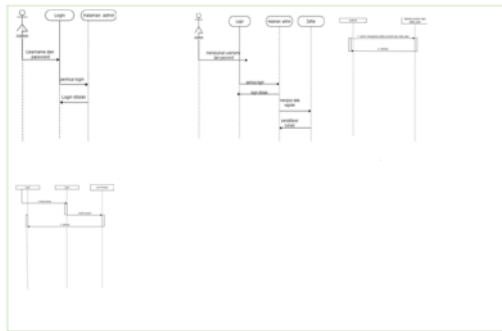


Figure 3.3 Display Of The Sequence System Diagram On The Marketplace System

In the picture above there are parts of this sequence diagram to illustrate the sequence of the process flow of an agricultural marketplace system.

IV. CONCLUSION

The conclusions from the discussion results of this marketplace are:

1. To provide a forum in the form of a website for farmers to sell their produce without having to get involved with middlemen.
2. With the limitations of the marketplace design system in the form of a website that is devoted to selling semi-finished goods production and the system uses the prototype method so that the development of this marketplace website system is faster.
3. For the analysis and evaluation of the agricultural marketplace system, it meets the needs with the black box testing method and the UEQ (Use Experience Questionnaire), Missing ", (ETS)
4. Achievement of the goal of designing and building an agricultural marketplace website to make it easier for farmers to sell their crops online with the prototype method and testing using black boxes and UEQ as the results of the evaluation.

REFERENCES

- [1] A. Venkatesh and M. S. Eastaff, "A study of data storage security issues in cloud computing," *Int. J. Sci. Res. Comput. Sci. Eng. Inf. Technol.*, vol. 3, no. 1, pp. 1741–1745, 2018.
- [2] M. Almorsy, J. Grundy, and I. Müller, "An analysis of the cloud computing security problem," *arXiv Prepr. arXiv1609.01107*, 2016.
- [3] A. El Bouchti, S. Bahsani, and T. Nahhal, "Encryption as a service for data healthcare cloud security," in *2016 Fifth International Conference on Future Generation Communication Technologies (FGCT)*, 2016, pp. 48–54.
- [4] A. Narang, "A review-Cloud and cloud security," *Int. J. Comput. Sci. Mob. Comput.*, vol. 6, no. 1, pp. 178–181, 2017.
- [5] P. Samarati, S. D. C. di Vimercati, S. Murugesan, and I. Bojanova, "Cloud security: Issues and concerns," *Encycl. cloud Comput.*, pp. 1–14, 2016.
- [6] J. Che, Y. Duan, T. Zhang, and J. Fan, "Study on the security models and strategies of cloud computing," *Procedia Eng.*, vol. 23, pp. 586–593, 2011.

- [7] S. Sridhar and S. Smys, "A hybrid multilevel authentication scheme for private cloud environment," in *2016 10th International Conference on Intelligent Systems and Control (ISCO)*, 2016, pp. 1–5.
- [8] M. A. Babar and B. Ramsey, "Understanding container isolation mechanisms for building security-sensitive private cloud," *Tech. Report, CREST, Univ. Adelaide, Adelaide, Aust.*, 2017.
- [9] M. A. Helmiawan and I. Fadil, "PRIVATE CLOUD STORAGE IN RURAL'S MANAGEMENT AND INFORMATION SYSTEM USING ROADMAP FOR CLOUD COMPUTING ADOPTION (ROCCA)," *Intern. (Information Syst. Journal)*, vol. 2, no. 2, pp. 172–183, 2019.
- [10] A. Hashmi, A. Ranjan, and A. Anand, "Security and compliance management in cloud computing," *Int. J. Adv. Stud. Comput. Sci. Eng.*, vol. 7, no. 1, pp. 47–54, 2018.
- [11] B. T. Rao, "A study on data storage security issues in cloud computing," *Procedia Comput. Sci.*, vol. 92, pp. 128–135, 2016.
- [12] M. K. Kiskani and H. R. Sadjadpour, "Secure and private cloud storage systems with random linear fountain codes," in *2017 IEEE SmartWorld, Ubiquitous Intelligence & Computing, Advanced & Trusted Computing, Scalable Computing & Communications, Cloud & Big Data Computing, Internet of People and Smart City Innovation (SmartWorld/SCALCOM/UIC/ATC/CBDCom/IOP/SCI)*, 2017, pp. 1–8.
- [13] T. Yan, S. Zeng, M. Qi, Q. Hu, and F. Qi, "Cyber security detection and monitoring at IHEP private cloud for web services," in *EPJ Web of Conferences*, 2019, vol. 214, p. 7016.

Agricultural Marketplace Website System Design

ORIGINALITY REPORT

27%

SIMILARITY INDEX

24%

INTERNET SOURCES

11%

PUBLICATIONS

18%

STUDENT PAPERS

PRIMARY SOURCES

1

ojs.polmed.ac.id

Internet Source

3%

2

www.researchgate.net

Internet Source

3%

3

Submitted to Royal Melbourne Institute of Technology

Student Paper

3%

4

journal.binadarma.ac.id

Internet Source

2%

5

www.coursehero.com

Internet Source

2%

6

innovatio.pasca.uinjambi.ac.id

Internet Source

2%

7

ijeais.org

Internet Source

1%

8

Submitted to HELP UNIVERSITY

Student Paper

1%

9

Dwi Yuniarto, Esa Firmansyah, Asep Saeppani, Dani Indra Junaedi. "Information System

1%

Project Success based on User Experience at the Village Administration Office", 2021 9th International Conference on Cyber and IT Service Management (CITSM), 2021

Publication

10	garuda.kemdikbud.go.id Internet Source	1 %
11	openjournal.unpam.ac.id Internet Source	1 %
12	dspace.daffodilvarsity.edu.bd:8080 Internet Source	1 %
13	repository.usahidsolo.ac.id Internet Source	1 %
14	Submitted to Queensland University of Technology Student Paper	1 %
15	eprints.utar.edu.my Internet Source	1 %
16	repository.unibi.ac.id Internet Source	1 %
17	www.iiste.org Internet Source	<1 %
18	Manaf Khaerul, Alam Nurul Cecep, Subaeki Beki, M F Kaffah, Ira Rupaida, Aedah Binti Abd Rahman. "Decision Support System For Determining Inventory And Sales Of Goods	<1 %

Using Economic Order Quantity Methods And
Linear Regression", 2020 6th International
Conference on Wireless and Telematics
(ICWT), 2020

Publication

Exclude quotes On
Exclude bibliography On

Exclude matches Off

Agricultural Marketplace Website System Design

PAGE 1



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



P/V You have used the passive voice in this sentence. Depending upon what you wish to emphasize in the sentence, you may want to revise it using the active voice.



Missing ", " You may need to place a comma after this word.



Article Error You may need to remove this article.



P/V You have used the passive voice in this sentence. Depending upon what you wish to emphasize in the sentence, you may want to revise it using the active voice.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Article Error You may need to remove this article.



Proofread This part of the sentence contains a grammatical error or misspelled word that makes your meaning unclear.



Missing ", " You may need to place a comma after this word.



P/V You have used the passive voice in this sentence. Depending upon what you wish to emphasize in the sentence, you may want to revise it using the active voice.



Article Error You may need to remove this article.



P/V You have used the passive voice in this sentence. Depending upon what you wish to emphasize in the sentence, you may want to revise it using the active voice.



P/V You have used the passive voice in this sentence. Depending upon what you wish to emphasize in the sentence, you may want to revise it using the active voice.



Missing ", " You may need to place a comma after this word.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.



Article Error You may need to remove this article.



Prep. You may be using the wrong preposition.



Missing "," You may need to place a comma after this word.