

Web-Based Marketplace Private Lesson Engingeering In Bandar Lampung

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Abstract—Education is the most important thing in our life. Every human being has the right to education and always develops in it. Along with the rapid development of the world of education, the paradigm of society which still considers that the quality of education of a student is the responsibility of the teachers at the school has now shifted. Problems that then arise through searches like this, among others, are the search for prospective private tutors that take It took quite a long time, it was difficult to find a suitable location and time between prospective tutors and students, could not find out the competencies, achievements, and track-records of prospective private tutors so it was difficult to find the best prospective private tutors. After identifying and making a design flow In the process of collecting data, the next step in the process of making this application is to determine the data source. Sources of data used in this study, mostly secondary data which is data that has been processed, data obtained by taking report data, notes and results of previous research or studies that are directly related to the problems discussed. The data sources include: literacy books, interviews and websites belonging to several experts. Implementation of research results is the stage where the system is ready to operate. The author carries out training for system users by providing sufficient understanding and knowledge about the position and function of the interface of the related information system. This system is shown to the admin or system manager. This is so that system users can understand system work procedures and reduce errors that hinder the smooth use of the system. The e-marketplace system created can make it easier for parents to find private teachers. The e-marketplace system provides many choices of private teachers who have criteria according to what consumers or parents need. The application of a website- based e-marketplace system also makes it easy for teachers to promote their expertise to be able to teach students privately according to their level of education and experience.

Keywords— Teacher, Private, System, E-marketplace.

I. INTRODUCTION

Education is the most important thing in our life. Everyone has the right to have a good education to grow. Education in general is a life process to develop and grow by yourself, thus, you will be able to survive. Government is aware of education in Indonesia, therefore, according in the 3rd paragraph of 1945 Constitution and the Constitution No.2, 1989, explicitly states "To educate life of our nation and all Indonesians people. Which are people who believe and fear to God Almighty, people have noble character, and people who have knowledge"

In modern education, the paradigm about the quality of the student is being the responsibility of the teacher now has been shifted. Most of society now believe that studying in school is never enough, in point of fact, most of parents were not happy with the online method during COVID-19 pandemic, therefore, they hired private teachers to teach their children at home.

In Bandar Lampung, the search for private tutors is mostly done through manual contact with a colleague, broadcasting, or having recommendations from family or friends who had taken a private lesson before. However, it had become the problem due to it takes time for looking a private tutor who matches the competencies that the parents need, such as track record, achievement, performance, method, curriculum offered, and so forth. Given the background, we develop marketplace system for private tutor service providers in Bandar Lampung, thus it will ease parents to find private tutors who matched with the criteria they need.

As for the literature review of this research are:

- A. Website Design for Information Systems Program Study, Darmajaya Institute of Informatics and Business, Bandar Lampung 2018 by Neni Purwati dan Halimah, Agus Rahardi [1].
- B. E-Marketplace Engineering for Escalating Betta Fish Sales Amid the Covid-19 Pandemic by Raynald Ryo Liaunardy, Yulius Hari and darmanto (2021) [2].
- C. Implementation Of Android-Based System Through Haversine Methods For Baby Care Services by Nisar, Wasila, Septilia Arfida dan Tia Almani (2020) [3].
- D. Web-Based Private Tutoring Ordering System Engineering by Rousyati dan Recha Abriana Anggraini (2019) [4].

II. THEOTRICAL BASIS

2.1 PHP

PHP or hypertext preprocessor is serverside programming language. PHP is invented by UNIX and Perl Programmer named Rasmus Leedorf on August to September 1994. PHP now became one of popular programming language to develop web-based application system [5].

2.2 Basis Data

A database is a collection of data stored systematically in a computer that can be processed or manipulated using software (application programs) to generate information [6].

2.3. XAMPP

Xampp is free software which supports many operating systems, and is a compilation of several programs of Apache Server, MySQL Database, Mercury, Filezilla, and Tomcat [7].

2.4 Definition of Private Lessons

Tutoring is extra lessons outside of school hours, while private means private, separate. Based on this definition, someone's private tutor who teach or provide additional lesson guidance on the subject certain hours outside of school study hours which are held privately at home for kindergarten, elementary, junior high and high school students. The services provided by the tutor are: time and intellectual. The tutor provides guidance, understanding, understanding, explanations, and other cognitive aspects to tutoring students. Next is service earlier will be appreciated by parents of students with a number of costs in accordance previous agreement.

2.2 E-Marketplaces

E-Marketplace is an internet-based online media (web-based)

a place to carry out business activities and transactions between buyers and sellers. Buyers can find as many suppliers as possible with the same criteria desired, so as to obtain according to market prices. Meanwhile for suppliers/sellers can identify companies that need it their product/service. E-marketplace is an online location where buyers and the seller performs a commercial transaction such as selling goods, services or information.

III. RESEARCH METHOD

3.1 Model prototype

The prototype model (prototyping model) starts by collecting end-user needs for the software to be made, afterward, the developer will be developing the software prototype to be delivered to the end user, therefore they will have a better point of view regarding the software itself [8].

At this stage, the system development method used is the method prototype with the following stages:

1. Collection of needs

At this stage, the following activities are carried out:

- The developer will ask the client directly regarding the needs what do users need in this private teacher search system.
- The developer will record all the requirements desired by the client.
- Describe what is needed by the client for later on do the next step.

2. Designing and Making Prototypes

At this stage it will proceed to the needs gathering stage.

The steps are as follows:

- After collecting needs, an overview will be made design as required by the user. Design done fast and the design represents all aspects of the software known, and this design is the basis for making prototypes with using UML Unified Modeling system development support Language is a step that focuses on design creation of software programs including data structures. Procedure The work of this new system will be described in several forms stages namely: Creating a Usecase, Activity Diagram Making a Design Input and Output, ClassDiagram, Create Data Dictionary.
- Then do the system prototype design including the system interface for all users in the system, namely service providers, admins, students and parents.

3. Evaluation of prototypes

At this stage the developer will show all the designs to the client to evaluate and test the prototype created and used for define software requirements. The third iteration of this process continues until all needs are met. Prototypes were made to satisfy client needs and to build software, faster, but not all prototypes can be utilized. Sake the client's needs are better, the prototype that is made can be attempted utilized.

Data collection

Data collection is collecting data that has been determined previously. Data is raw material that has not been processed into a data information, this study was then divided into two techniques, namely engineering data collection and system development techniques with the prototype method, here are several steps taken.

a. Interview

The interview was conducted by interviewing one of the places tutoring to find out how the process of tutoring and teacher standards that are allowed to teach privately.

b. Observation

Observation is a data collection method that is carried out by means of direct observation of an activity that is being carried out.

Observations were made at Primagama Bimbel which is located at Jl. Mountain Rajabasa Raya No. T 21 Way Halim Perumnas Bandar Lampung City. This This is done as a basis for determining teacher specifications or standards to be able to become a private teacher and how the process of tutoring that is somewhere tutoring so that it can be applied to the system that will be made.

c. Literature review

This technique is used to collect data with reference materials from books, document, which relate direct with problem which currently discussed or reference in accordance with problem which there is useful for ingredient analysis.

Based on the above stages, it will be concluded that the system will be built on the private teacher search marketplace system must have components user that is teacher, student, admin, person old.

Designing and Building Prototypes

At this stage, the system design is carried out based on the wishes of the user by describing in UML form and database design. After that created a prototype system design that will be made. These stages The processes will be explained the use case

diagram in this design illustrates how the function of the private teacher search marketplace system to make it easier the search and determination of appropriate teachers, can be seen in the following explanation :



IV. RESULTS AND DISCUSSION

4.1 Implementation

As a result of this research, we develop a system which able to provide an information of private tutor in Bandar Lampung. This system will provide all the information that needs such as biography, achievement, experiences, expertise, and so forth. The results of the implementation of this research are explain below.

4.1.1 Login and Registration page

Figure 1 below shows login page of marketplace. New user should register themselves to get access to this system.



Figure 1. Login Page

4.1.3 Homepage and Search Form

Figure 2 below shows homepage the system. Inside it there are search form to looking a private tutor and its subject they teach. It also shown category of every subject category.



Figure 2. Homepage

4.1.4 Cart

Figure 3 below shows cart system for payment of private tutor that booked by end-user. Inside data cart, it will show price list that should be paid by end-user.



Figure 3. Cart

4.1.5 Tutor Dashboard

Figure 4 shows tutor dashboard where teacher able to view payment that have been paid by end-user.

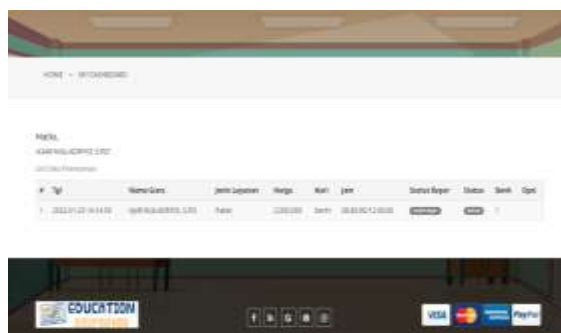


Figure 4. Teacher Dashboard

4.1.6 Tutor Profile

Figure 5 shows tutor profile, where teacher able to edit their profile and their experience by themselves.



Figure 5. Teacher Profile

4.1.7 Tutor Schedule

Figure 6 shows tutor schedule, which tutor and end-user able to see the schedule.



Figure 6. Tutor Schedule

4.1.8 Registration Page

Figure 7 shows is the display of the user registration page. This page contains the form used to verify data at login.



Figure 7. Registration Page

4.1.9 Booking Page

Figure 7 shows is informational page orders made by the user.



Figure 8. Booking Page

4.10 Dashboard Admin

Figure 7 shows is contains the start page when admin successfully login.



Figure 9. Dashboard Admin

4.11 Akun Data Page

Figure 7 shows is list data users who have registered.



Figure 10. Akun Data Page

V. CONCLUSION

Based on our analysis, development and research, the conclusion of this research is:

1. This system is developed to ease parents in order to looking private tutor.
2. The e-marketplace system provides choices of

private tutor for parents.

3. The e-marketplace system helps a teacher to promoting his expertise skill to earn more income.

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