



INFORMATION SYSTEM FOR COLLECTING DATA FOR STUDENTS IN GREAT CHILDREN'S LITERACY (AHE) & BIMBEL HAPPY DAYS

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Pada masa pandemi covid 19 tahun 2020-2022, dengan terbatasnya pertemuan antara siswa dengan guru di sekolah maka secara otomatis kemampuan siswa dalam menerima materi pun akan terbatas. Dengan kurangnya intensitas pertemuan siswa dengan guru di sekolah dan sistem pembelajaran yang dilakukan secara jarak jauh akan menjadi kendala dalam pencapaian tujuan belajar. Oleh karena itu, Di Kota Tasikmalaya terdapat beberapa lembaga bimbingan belajar, salah satunya Les Baca Tulis (AHE) & Bimbel Happy Days. Les Baca Tulis Anak Hebat (AHE) & Bimbel Happy Days merupakan salah satu tempat bimbingan belajar di Tasikmalaya yang bertempat di Jl. Pataruman No.36. Ditambah dimana dimasa pandemi seperti ini Les Baca Tulis Anak Hebat (AHE) & Bimbel Happy Days mengalami peningkatan yang cukup signifikan, yang menyebabkan guru les mengalami kesulitan dalam proses pendataan anak didik yang membutuhkan waktu yang cukup lama. Oleh sebab itu penulis mencoba untuk membangun sistem informasi yang pendataan anak didik, transaksi dan laporan tidak memerlukan waktu yang lama dengan menggunakan metode waterfall. Sistem ini dapat mempercepat pendataan, transaksi dan laporan anak didik sehingga lebih efisien. Sistem ini cukup efektif untuk dijadikan solusi alternatif bagi admin dalam pendataan anak didik.

Kata Kunci : Waterfall, Sistem Informasi, Pendataan

During the 2020-2022 Covid 19 pandemic, with limited meetings between students and teachers at school, automatically students' ability to receive material will be limited. With the lack of intensity of student meetings with teachers at school and the distance learning system, it will be an obstacle in achieving learning goals. Therefore, in Tasikmalaya City there are several tutoring institutions, one of which is Great Children's Literacy Tutoring (AHE) & Happy Days Tutoring. Great Children's Literacy Lessons (AHE) & Bimbel Happy Days is one of the tutoring places in Tasikmalaya which is located on Jl. Pataruman No. 36. Also, during a pandemic like this, Great Children's is Great Children's Literacy (AHE) & Happy Days Tutoring has experienced a significant increase, which has caused tutors to experience difficulties in the data collection process for students which takes a long time. Therefore, the author tries to build an information system that can store student data so that it is more effective in collecting data and does not take a long time by using the waterfall method. This system can speed up student data collection, making it more efficient. This system is quite effective to be used as an alternative solution for teachers in collecting student data.

Keywords: Waterfall, Information System, Data Collection

INTRODUCTION

During the covid 19 pandemic, with limited meetings between students and teachers at school, automatically students' ability to receive materials will be limited. With the lack of intensity of student meetings with teachers at school and the learning system carried out remotely, it will be an obstacle in achieving learning goals. Therefore, many parents of students are looking for alternative solutions by registering their children in tutoring institutions so that their child's development is not hampered, one of which is in the Great Children's Literacy Tutoring (AHE) & Happy Days Tutoring. Great Children's Literacy Tutoring (AHE) & Happy Days Tutoring is one of the tutoring places in Tasikmalaya which is located on Jl. Pataruman No.36. From the first Great Children's Literacy Lesson (AHE) & Happy Days Tutoring, the student admission process is still manual, namely by the child's parents filling out the form first and then the tutor will transfer the child's data to the Children's Data Book manually which takes a long time, the payment transaction process is also still handwritten using a receipt book and problems that often occur also when parents are late or forget to pick up their children which causes teachers to have to Contact the child's parents by searching for the child's data to see the child's parent's cellphone number. During the covid pandemic, Great Children's Literacy Tutoring (AHE) & Happy Days Tutoring experienced a significant increase, which caused tutors to experience difficulties in the process of collecting children's data which took a long time. Based on the background of the above problem, the author intends to design a system that can overcome these problems. For this reason, the author created an application for the Information System for Student Data Collection in the Great Children's Literacy Lesson (AHE) & Bimbel Happy Days.

The purpose of this research is to provide convenience for admins when collecting data on student admissions and in the payment transaction process, in addition to making it easier for parents to see information about tutoring places.

METHODOLOGY

This study uses qualitative research methods. Qualitative research is a method that is descriptive and tends to use analysis. The descriptive method is a research that seeks to observe problems systematically and accurately regarding the facts and properties of certain objects. The source of the data in the study is the subject from which the data is obtained. In qualitative research, the source of data is humans as respondents, written sources and sources of event places. For the data collection techniques used, namely first, observation by directly observing the impact of the data collection process, students' finances before the application, second, at this stage, the author searches several journals related to information systems, student data collection, waterfall methods, third, interviews with those conducted directly with the owner of the Literacy Tutoring (AHE) & Happy Days Tutoring place to find out how to collect data and incoming transactions and financial exit at the tutoring place. Because this study is a qualitative research method so that it does not carry out calculation analysis but is replaced by designing an information system, the model used in the design and development process of this software is using the Waterfall model. The following is a picture of the waterfall model:

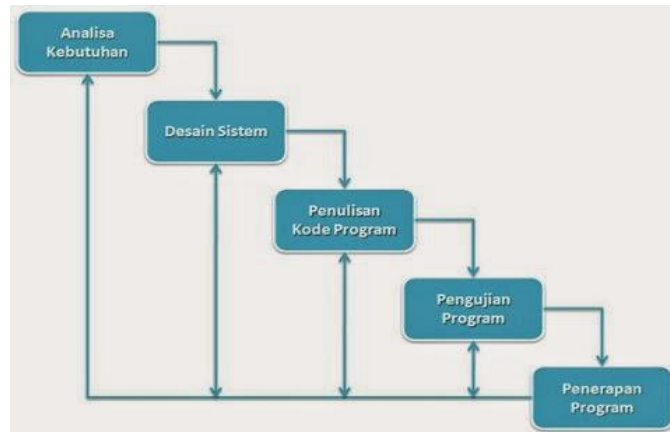


Figure 1 Simple Presentation of the Waterfall Development Model

RESULTS AND DISCUSSION

The student data collection information system application is a software that can make it easier for admins to collect student data. Broadly speaking, this application functions to collect data on students' identities, transactions/incomes and financial expenses at tutoring places and make detailed reports and print them.

1. Main Menu *Company Profile*

First open the link *Company Profile*, then the home page will appear *Company Profile*. *Company Profile* This is to display information around the tutoring place that can be accessed on the internet for users and admins.

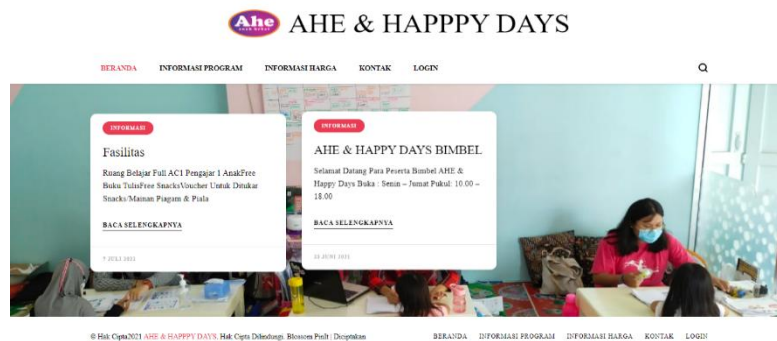


Figure 2 Company Profile Main Menu Display

2. Program Information Page Menu

This page contains about the learning programs in the tutoring place.



Figure 3 Program Information Page Display

3. Price Information Page Menu

This page contains information about program pricing.



Figure 4 Price Information Page Display

4. Contact Page Menu

This page contains the owner/admin cellphone number and the address of the tutoring place.



Figure 5 Contact Page Display

5. Admin Login Menu

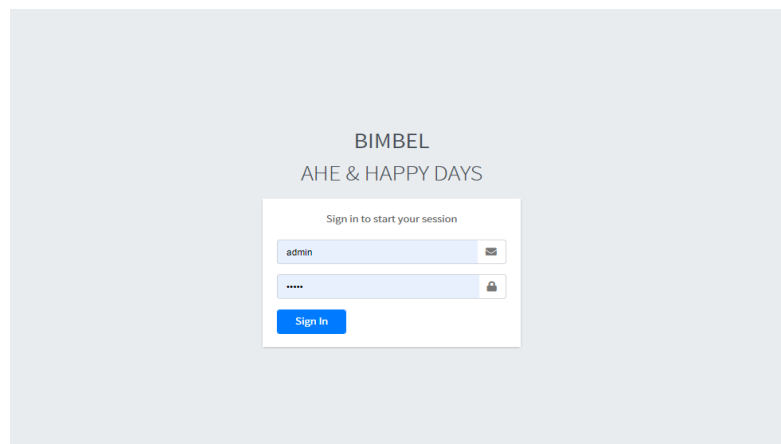


Figure 6 Admin Login Menu

6. Main Menu Admin/Dashboard

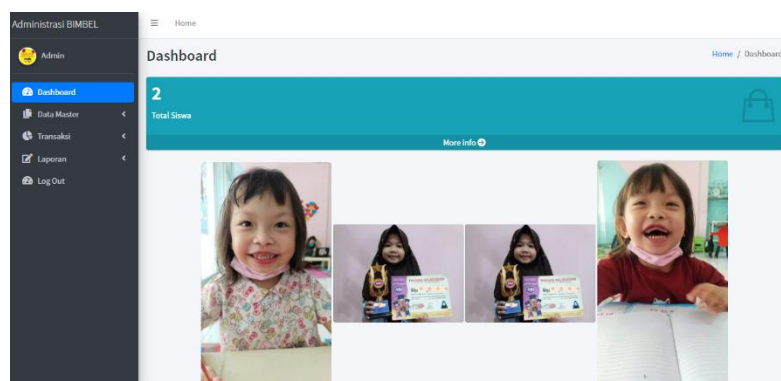


Figure 7 Main Menu Admin/Dashboard

7. Package Type Master Data Menu Page

On this page, Admins can add, edit and delete package types.

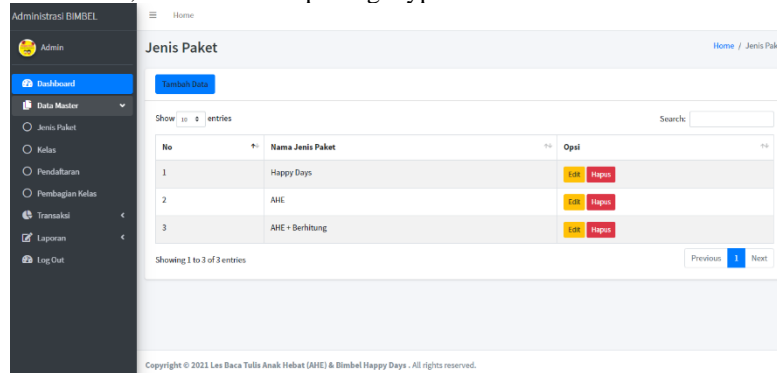


Figure 8 Package Type Master Data Display

8. Classroom Master Data Menu Page

On this page, Admins can add, edit and delete classes.

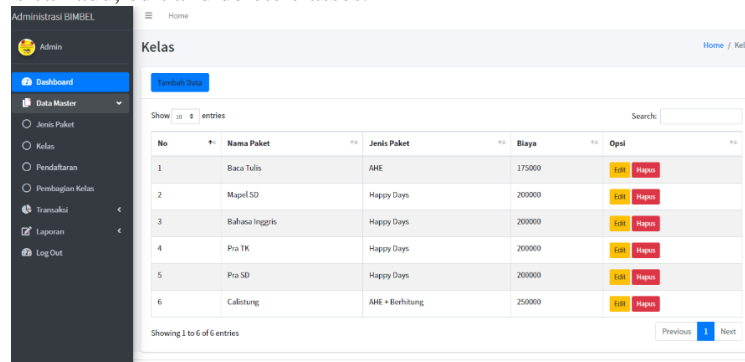


Figure 9 Classroom Master Data Display

9. Registration Master Data Menu Page

On this page, Admins can change, edit and delete student data.

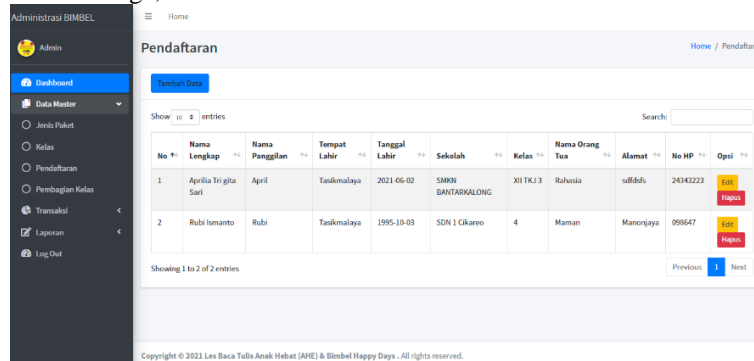


Figure 10 Registration Master Data Page

10. Class Division Master Data Menu Page

On this page, Admins can only edit and delete on class divisions.

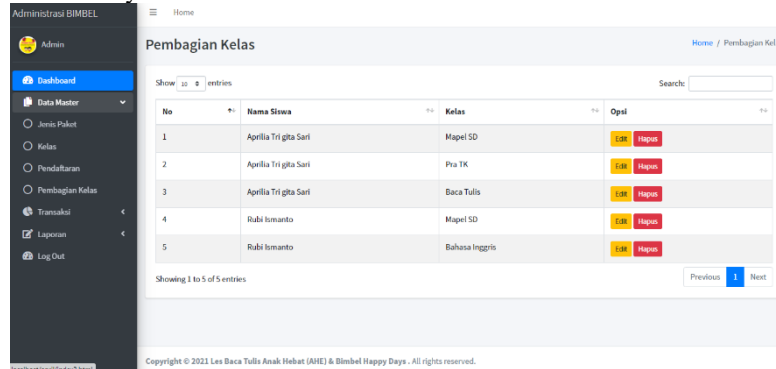


Figure 11 Class Division Master Data Display

11. Student Payment Transaction Menu Page

On this page, the Admin inputs the data of the students who will make the payment.

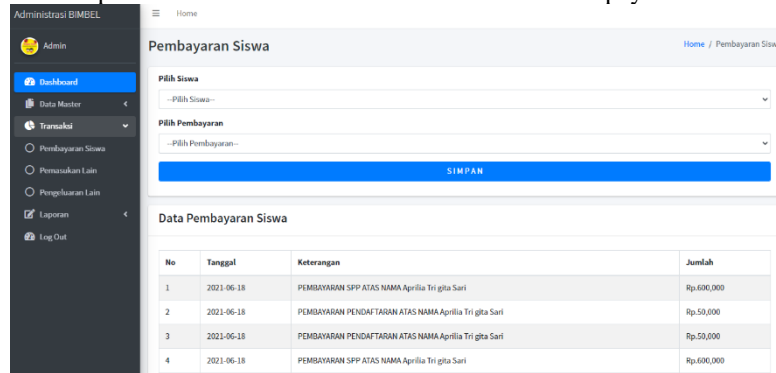


Figure 12 Student Payment Transaction Display

12. Other Income Transaction Menu Page

On this page, Admins are required to record if there are other income finances such as donations.

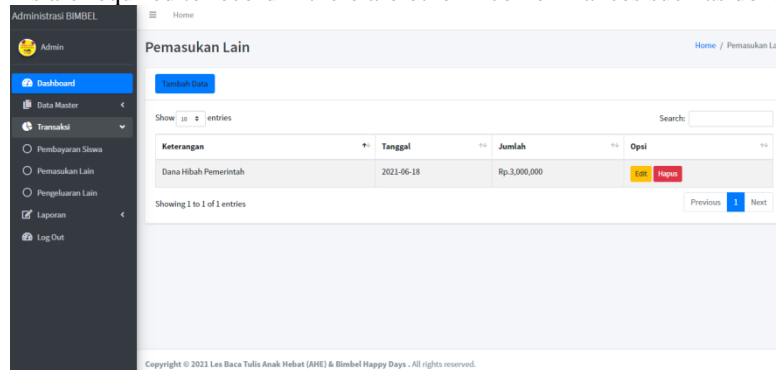


Figure 13 Display of Other Income Transactions

13. Other Expense Transaction Menu Pages

On this page, admins are required to input what expenses are from the tutoring place.

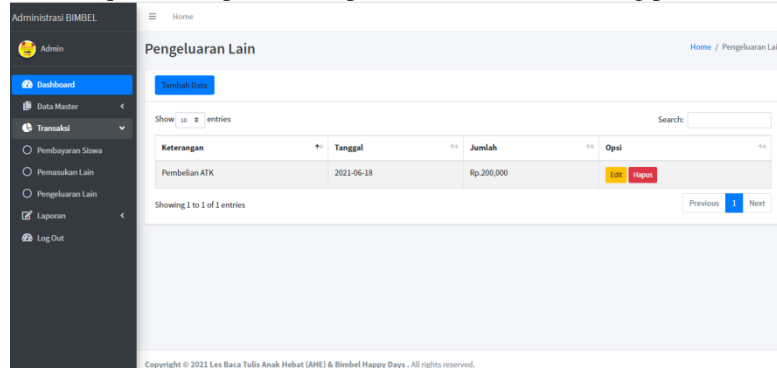


Figure 14 Display of Other Expense Transactions

14. Report Virgins Input Page

On this page, admins can view reports according to the dates that admins specify.

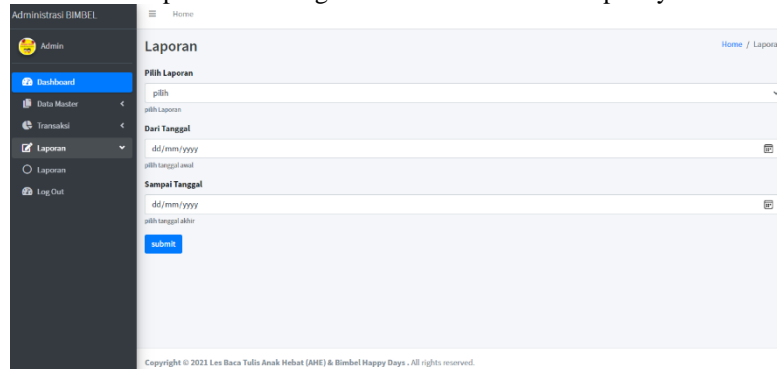


Figure 15 Report Data Input Display

15. Report

The balance sheet report functions as a system control medium so that admins can find out the data of students who have paid, earned and spent.

Laporan Neraca				
No	Tanggal	Keterangan	Pemasukan	Pengeluaran
1	2021-06-29	PEMBAYARAN PENDAFTARAN ATAS NAMA Aprilia Tri gita Sari	Rp.50,000	Rp.0
2	2021-06-29	PEMBAYARAN PENDAFTARAN ATAS NAMA Rubi Ismanto	Rp.50,000	Rp.0
3	2021-06-29	PEMBAYARAN MODUL ATAS NAMA Aprilia Tri gita Sari	Rp.35,000	Rp.0
4	2021-06-30	PEMBAYARAN MODUL ATAS NAMA Aprilia Tri gita Sari	Rp.35,000	Rp.0
5	2021-06-30	PEMBAYARAN SPP ATAS NAMA Aprilia Tri gita Sari	Rp.400,000	Rp.0
6	2021-06-30	PEMBAYARAN PENDAFTARAN ATAS NAMA Aprilia Tri gita Sari	Rp.50,000	Rp.0
7	2021-07-04	PEMBAYARAN PENDAFTARAN ATAS NAMA Aprilia Tri gita Sari	Rp.50,000	Rp.0
8	2021-07-05	PEMBAYARAN PENDAFTARAN ATAS NAMA Rubi Ismanto	Rp.50,000	Rp.0
9	2021-07-05	PEMBAYARAN PENDAFTARAN ATAS NAMA Aprilia Tri gita Sari	Rp.50,000	Rp.0
10	2021-07-05	PEMBAYARAN PENDAFTARAN ATAS NAMA Aprilia Tri gita Sari	Rp.50,000	Rp.0
11	2021-07-06	PEMBAYARAN PENDAFTARAN ATAS NAMA Aprilia Tri gita Sari	Rp.50,000	Rp.0
Total			Rp.1,070,000	Rp.0
Total Saldo			Rp.1,070,000	

Figure 16 Report Display

In the program testing stage, researchers use black-box testing to test the application that has been created. Black-box testing is used to show that the functions of the software are operational, that the inputs are well received and the outputs are generated appropriately

CONCLUSIONS AND SUGGESTIONS

Based on the results of the above research, the information system built is quite effective because it has been tested. So that several conclusions can be drawn that with the system that has been applied, admins can easily record student admissions, making it easier for admins to manage the payment transaction process with proof of payment receipts. as well as providing time efficiency in the process of processing student data collection and transactions. The suggestion that I want to convey in this study is that the addition and development of application features is very possible along with the development of technology and the system that is built next is expected to be android-based, so that it is easily accessible directly from a smartphone.

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