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Web-Based Employee Payroll Information System at Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd.

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Abstract— This research is motivated by salaries that have not been maximized at the company Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd because it still keeps documents in hard file form. With this web-based employee payroll information system, it is easier for admins to access salary data by accessing the web. The tool used to describe the system model is an Entity Relationship Diagram (ERD). To implement this payroll information system, supporting components are needed in order to These components use Laravel work properly. programming framework and store database in MySQL and use Talwind CSS design to make design easier. The results of research and applications can overcome the problems that exist in companies that do not yet have a payroll application and can be used to process salaries in the company.

Keywords— Information, System, Payroll, Web, Laravel

I. INTRODUCTION

In the era of advanced and rapidly advancing technology, companies need information systems to store important data. The impact of the rapid development of technology at this time, especially in the field of information. Information systems can be easily accessed anywhere with an information system making it easier to find information or data needed. Web information systems make work easier without having to be in the actual place, just sitting in front of the monitor screen, getting or accessing the information needed. The expanded web information system enters all aspects of life, for example in the business world, offices, companies in the field of services and transportation. Companies need a web-based information system in order to easily record and store company data.

According to Julianto & Setiawan (2019) information system is a system within an organization that brings together the daily transaction processing needs that support the managerial functions of the organization's operations with the strategic activities of an organization to be able to provide certain outside parties with the necessary reports. Information systems can be analogous to a demand (demand) from the industrial community, when the need for data processing and communication facilities is fast and cheap.

Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd, better known as "BPR IBU" was founded in 1990 under the name BPR Ingertad. Ingertad itself stands for INDONESIA GERMANY TRANSMIGRATION AREA DEVELOPMENT, which is a collaborative project between the Government of Indonesia and the Government of Germany in the development of hybrid coconut plantations in the Rimba Ayu transmigration area, Kota Bangun District, Kutai Kartanegara, East Borneo. This bank is a credit bank that does not yet have much information system development that is used because it still uses a lot of manual creation, which is recorded. So, the author makes an application for the company, namely, a payroll application.

Salaries at the company are very important so that employees can get payslips easily and there are already calculations of what employees get and salary deductions from employees. This research was conducted to create an employee payroll information system entitled "Web-Based Employee Payroll Information System at Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd". Payroll Application is a web-based application system intended for admins to make work easier. The Payroll application is expected to be used by company admins in order to store data, record salaries, and pay slips for employees.

Based on the problems expressed in the background, the formulation of the problem in this study is, how to design an employee payroll information system at Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd, And what features are provided in a web-based payroll information system.

A web-based payroll information system is closely related to other information systems. Therefore, the authors limit the research only to.

The employee payroll information system is made webbased and the employee payroll information system.

Based on the formulation of the problem, it can be seen that the research objectives are as follows. The Handayani, S., Franz, A., & Rachmadani, B. (2023). Web-Based Employee Payroll Information System at Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd. TEPIAN, 4(1). 38-44. https://doi.org/10.51967/tepian.v4i1.1406

purpose of this research is to create an employee payroll information system in a web-based company to facilitate the admin's work.

Based on the formulation of the problem, it is known that the expected results are as follows. The expected results can make it easier for company admins to process employee payroll.

II. LITERATURE REVIEW

A. Study of literature

- 1. In research by Hamizan (2020), the development of technology today has shown tremendous progress. Many things from the life sector have used the existence of technology itself. Its presence has had a considerable impact on human life in various aspects and dimensions. Information and Communication Technology (ICT) has become a trend in all aspects of life that follows the current development of contemporary information technology, ranging from business practitioners, education and even government. The employee payroll process is also included in the company's management information system. Employee payroll is not possible in a manual way, given the number of employees in the company.
- 2. Research conducted by Fardian Anshori and Mulyawan (2021), the payroll data processing information system application is a system used by admins and HRD heads so that the process of making and delivering payroll data information becomes faster and more accurate, this system is also used by admins to be able to assist in managing employee data, employee attendance, and employee overtime data.
- 3. Research conducted by Kurniawan, T. Bayu, S. (2020), Development technology information is increasingly widespread, this is in line with the rapid development of computers. Technology and information are two things that cannot be separated from one another. Rapid technological developments in the development of hardware and software as well as technology communication is an alternative for companies to support good data processing.

B. System

According to SIHOTANG, H. T. (2019), the system is a network of procedures that are interconnected, gathered together to carry out activities or to carry out certain goals. The system is basically a group of elements that are closely related to others, which function together to achieve certain goals.

C. Information

Information is data that has been processed and has meaning for users in making decisions. Each Information must be checked for validity, accuracy, and relevance, so that it can provide positive feedback for its users. According to Ramdhan, N. A, & Nufriana, D. A. (2019), information is data that has been clarified or processed or interpreted for use in the decision-making process.

D. Information System

According to Sitinjak Daniel Dido Jantce TJ, M & Suwita, J. (2020), an information system is a system that consists of collecting, entering, processing data, storing, processing, controlling and reporting so that information can be achieved. Which support decision making within an organization to be able to achieve its goals and objectives.

E. Payroll

According to Kurniawan, H, Apriliah, W, Kurnia, I, & Firmansyah, D (2021), payroll is one of the important activities for the smooth operation of the company, in the welfare of its employees. The payroll system is one of the things related to the management of the welfare of the workforce so it must be given special attention by the company in order to achieve its goals.

F. Employee

The notion of employees is equated with the notion of labor, labor/workers or also termed as human resources (HR). In a macro sense, HR includes all humans as residents or citizens of a country or within certain territorial limits who have entered the age of the labor force, both those who have entered the age of the labor force, and those who have been able to get a job. Besides that, Human Resources on a macro basis also means people who are in productive age, although for various reasons and problems there are still those who are not yet productive because they have not entered the employment opportunities in the community.

G. Web

According to Riyadli, H, Arliyana, A, & Saputra, F. E. (2020), the World Wide Web or often known as the web is an information presentation service that uses the concept of a hyperlink (link), which makes it easier for surfers (the term for computer users who browse or search information via the internet). This feature has made the web the fastest growing service. The Web allows highlighting (highlighting or underlining) words or images in a document to link or point to other media such as documents, phrases, movie clips, or sound files.

H. Laravel Framework

According to Mediana, D., & Nurhidayat, A. I. (2018), Understanding the framework is a basic conceptual structure used to solve or handle a complex problem. In short, the framework is a container or framework of a website to be built. By using this framework, the time used in making the website is shorter and makes it easier to make improvements. One of the frameworks that is widely used by programmers is the Laravel framework. Laravel is a PHP-based Handayani, S., Franz, A., & Rachmadani, B. (2023). Web-Based Employee Payroll Information System at Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd. TEPIAN, 4(1). 38-44. https://doi.org/10.51967/tepian.v4i1.1406

framework that is open source, and uses the concept of model-view- controller. Laravel is licensed under the MIT License by using Github as a place to share code to run it.

III. RESEARCH METHOD

A. Tools and Materials

The tools used are hardware and software or applications as follows.

- 1. Laptop Acer Predator (Ram 8 gb, Intel Core i5)
- 2. Printer
- 3. Xampp
- 4. Visual Studio Code
- 5. Git
- 6. Browser
- 7. Composer
- 8. NodeJS
- 9. Balsamiq
- 10. Draw.io
- 11. Mendeley

B. Research Procedures

In the development of employee payroll information systems at Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd there are stages to be carried out, in accordance with research procedures.

- 1. Literature study is an activity in collecting library data, reading and recording the same data used by the author. With the literature study the author can be used as a reference and can compare the weaknesses and strengths of the application to be made.
- 2. Retrieval of data to be collected and recorded that will be used by the author and which is needed so that it can be processed properly. Retrieval of data from the company is needed so that it can be realized in the design of information systems.
- 3. After data collection, the data will be analyzed to be used as samples from the application. Data analysis is the process of processing data into information that will be easily understood.
- 4. The data is processed properly, then the author prepares a system design so that it is easy to make the system, such as designing a database and designing the interface.
- 5. The system design is complete, then to the next stage, namely the creation of an information system. This stage is very important because the author will implement the system design into an application.
- 6. Testing the system so that the application can be used properly, checks the system whether it is running well or not.
- 7. After testing, namely the implementation stage. Implementation of an action or implementation of a plan that has been prepared carefully and in detail and can be used properly. Implementation is carried out after the planning and manufacture are considered perfect.

C. Research Data Collection Method

1. Study Literature Literature study is

Literature study is used for comparison and reference in order to facilitate research.

2. Interview

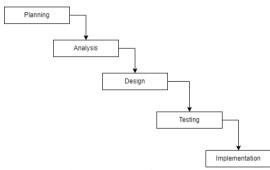
The interview is the author asks the research that will be made for the company that will be the object of research. With the interview the author can find out what data is needed from the company

3. Observation

Observation is data collection through observations in the field accompanied by data from the field.

D. System Development Plan

The system development method used in the study, namely the waterfall method. The waterfall method is used to simplify information systems that have been created in stages, can be seen in the picture 1.

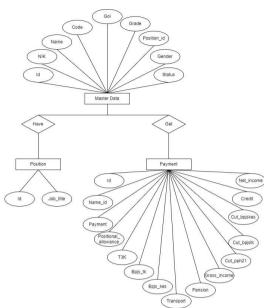


Picture 1. Waterfall Method

- 1. Planning is anything that is needed by the company so that it can be implemented as desired and as needed so that it can be understood.
- 2. Analysis is needed so that the data can be processed appropriately in planning if it has been managed properly the new design stage can be carried out.
- 3. Designing information systems to be implemented.
- 4. Test the entire system to be used.
- 5. The implementation of the system can be used and the system is complete
- E. System Plan
 - Entity Relationship Diagram (ERD) ERD for a web-based payroll information system this ERD makes it easy to create a database and the flow can be easily understood, it can be seen in the picture 2.

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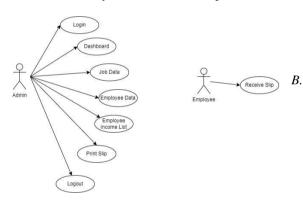
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Picture 2. Entity Relationship Diagram

2. Use Case

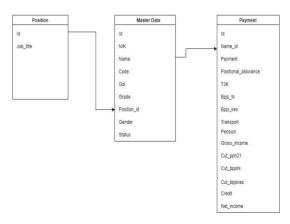
The use case used for a web-based payroll information system can be seen in picture 3.



Picture 3. Use Case

3. Class Diagram

The class diagram used to create a payroll information system can be seen in the picture 4.



Picture 4. Class Diagram

IV. RESULT AND DISCUSSION

The results and discussion of the application of a webbased employee payroll information system at Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd which has been done by the author.

A. Main Page

The main interface page is the main page leading to the login on the payroll information system on the web such can be seen in the picture 5.



Picture 5. Main Page

The main page of the payroll which is used to enter the next page so the admin can click login to be able to enter the payroll data page.

. Login Page

The login page is the page used by the admin to enter the next menu. So, admin must login first. The login page it can be seen in the picture 6.

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Picture 6. Login Page

C. Dashboard

The dashboard page is a page for total data and salary graphs. Admins who have logged in will go to the dashboard page. Dashboard it can be seen in the picture 7.

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Picture 7. Dashboard

D. Position Data

Job data is a page that enters employee position data. Position data can be seen in the picture 8.

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Picture 8. Position Data

E. Employee Data

Employee data is the identity of employees who have been entered into employee data. Employee data can be seen in the picture 9.

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Picture 9. Employee Data

. Employee data can be printed using the print data feature on the payroll information system. The print on the employee is in the picture as follows 10.

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2	640001002	Karyawan 2	K3, Menikah dengan 3 tanggungan	1	Manager Madya	Direktur	Late-taki	Karyawan Tetap		
3	640002003	Karysewian 3	K1, Menikah dengan 1 tanggungan	2	Manager Madys	Direktur	Lahi-Jaki	Karyawan Tetap		
4	640001004	Karyawan 4	TK3, Lajang dengan 3 tanggungan	8	Pelaksana Madya	M. Ops dan APPU PPT	Perempuan	Karyawan Tetap		
5	640002005	Karyawan 5	K2, Menikah dengan 2 tanggungan	0	Pelaksana Muda	Manager Bisnis	Laki-laki	Karyawan Tetap		
6	640002006	Karyawan 6	K, Menikah tanpa tanggungan	9	Pelaksana Mada	M. Resiko dan Kep	Laki-laki	Karyawan Tetap		
7	640002007	Karyawan 7	K3, Menikah dengan 3 tanggungan	11	As Pelaksana Muda	Bag Umum	Laki-laki	Karyawan Tetap		
8	640002008	Karyawan 8	K, Menikah tarpa tanggungan	12	As. Pelaksana Muda	Akurting	Perempuan	Karyawan Tetap		
9	640002009	Kayawan 9	TK, Lajang	12	As. Pelaksana Muda	Admin Kredit	Perempuan	Karyawan Tetap		
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12	640002012	Karyawan 12	K1, Menikah dengan 1 tanggungan	12	As. Pelaksana Muda	Marketing	Laki-laki	Karyawan Tetap		
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Picture 10. Print Data

F. Payroll Data

Salary data is to enter data, change data, and delete salary data for employees. Salary is a form of periodic payment from the company to its employees which is stated in an employment contract. The salary data page can be seen in the picture 11.

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Picture 11. Payroll Data

Other payroll records have payroll deductions. Furthermore, payroll data can be seen in picture 12.

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Picture 12. Further Payroll Data

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Payroll information system has a print data feature. Print salary data is usually needed by managers to see all employee salary data. The print on the payroll is can be seen in the picture 13.

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ŗ.	Keymen	flag Unun	fp239665	16.1	Pp: 210 000	Rg 134.800	Pp 100.000	fp.1	Fp 1	Pp.3.871.555	Re S	Fp:221.000	19:50.000	Pp3	Pp38059
	Kayawan B	Auring	Rp.1286475	19,252.000	Pg-300.000	Pp.257.625	Fip:180.000	ny 2	945	Pp.4294305	192	Pg: 200.000	Pg. 150 300	Pp 3	Pp.3.8430
	Kayana 2	Admin Konilli	Rp.3.386.675	14.5	Hp 255.000	Hp 125.000	Fig- 100-000	10-3	84.3	Pp.3.86675	Hp.1	Fig. 103.000	Rp.68.000	Pp.1	Pp.2462475
10	Kanjavari 10	Eag. Uman	963311675	16.0	Np 100 550	Rp 150 000	Pp 125.000	Pp 5	Pp 0	Pp.2.094.075	160	78:100.000	Rp 120.300	Rp.0	Pp3.0487
=	Karyment 11	SCH	843178475	Rp 153 000	Rp. 125.000	Rp 121300	Rp 123.000	Rp.1	Rp.1	Rp.3 688 875	Rp.1	Rp (23.000	Rg 130.800	Rp.1	Rp34647
12	Kayaka) 12	Manarra	91371675	10.152.000	Pp.132.888	Hg 118.755	Pp-121-003	Pp-1	191	Pp 3 901 322	Re3	Rp. (553.000	Rp 125.000	Pp.3	Pas 3 528 322

Picture 13. Print Data

G. Employee Income List

Employee income list is a page used to view employee net income. The employee income list page can be seen in the picture 14.

CT. BINK ING	jertad Bangun U	tarti a			
	Dattar Pere	puslan Karyaw	ani.		Gene
	State 10v	ertiks		South	
	жо +	NAMA	IABATIN	GAD BERSH	
	4	Sayward .	Onitaritani	3225233	(Sec.)
	-95	signal -	Devite	12,000,523	Obst
	3	Karyanan 3	Desitar	14133.060	the
		turgeway: 4	H Christian 4499/7997	1962012	(free
	5	Earyywain S	Managar Bonis	6307528	and a
		timene t	N. Riske per kap	73354/9	Uner
	3	Earpean?	Bag Union	3.021555	100
		Kayawan II	Autig	3394300	and
		Keynet	AmsWell	3.02.675	that
	63	taryover 33	Rap Stream	3.474.575	(that

Picture 14. Employee Income List

Furthermore, there is a payslip page which can be seen in the picture 15.

PT. BPR I	ngertad Bangun Utama				
	Nana : Karyaw	ar 1	labatan : Direkta	rUtana	
	Pangkat : Manag	er Utama	Golongan : 0		
	PENERIMAAN		POTONGAN		
	Gaji Pokok	: Rp. 12 000.000	Pph21	: Pp 2279.542	
	Turjargan labatan	: Rp. 3/000.000		: Rp 1011438	
	Turjangan T3K	: Rp. 2/000.000	Putongan BPIS KES	: Rp. 600.000	
	Tunjangan BPIS TK	Rp. 683.892	Kredit	: Rp.6333.789	
	Turjargan BPIS KES	: Rp. 480.000			
	Turjangan Transport	; Rp. 2.500.000			
	Total Penerimaan	: Rp. 36.336.108	Total Potongan	: Rp.8613331	
	#TAKE HOME PAY : RP. 27.	275.231			
	Dibuat 8 December 2021				
	Diubah 9 December 2021				
				Sin Gai Kentral	

Furthermore, the salary can be printed as a pdf. Printed payslips can be seen in the picture 16.



Picture 16. Print Data

H. System Testing

Testing a web-based payroll information system application at Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd uses the black box method. According to Purnia, D. S, Rifai, A, & Rahmatullah, S. (2019), black box testing focuses on functional specifications of the software. The tester can define a set of input conditions and perform tests on functional program specifications. Testing is done by running all the existing functions one by one. Then see if the results are in accordance with what was designed and expected by the application. Application testing is done by the admin IT. The results of testing web-based payroll applications can be seen in the table 1. Handayani, S., Franz, A., & Rachmadani, B. (2023). Web-Based Employee Payroll Information System at Bank Perkreditan Rakyat Ingertad Bangun Utama Ltd. TEPIAN, 4(1). 38-44. https://doi.org/10.51967/tepian.v4i1.1406

	1 d01	e I. System	
#	Test Scenario	Results	Trial Date
1	Entering and filling	Succeed	30/12/2021
	in the login data,		
	then clicking the		
	LOGIN button		
2	Show Dashboard	Succeed	30/12/2021
3	Input employee	Succeed	30/12/2021
	data and save		
	employee data by		
	clicking the SAVE		
	button		
	Entering and		
	saving job data,		
	then clicking the		
	SAVE button		
4	Entering and	Succeed	30/12/2021
	saving salary data,		
	then clicking the		
	SAVE button		
5	Change the data by	Succeed	30/12/2021
	clicking the change		
	button, then there is		
	an alert that tells		
	you that the data		
	has been changed		
6	Delete data by	Succeed	30/12/2021
	clicking DELETE,		
	then there is an		
	alert telling you		
	that the data has		
	been deleted		
7	View employee	Succeed	30/12/2021
	income list data		
8	Print data on	Succed	30/12/2021
	PRINT button		

Table 1. System Test

V. CONCLUSIONS

Based on the Web-Based Payroll Information System at Bank Pekrekditan Rakyat Ingertad Bangun Utama Ltd the work carried out by the author is from data collection, data analysis, database design, display design (mockup), and web creation, namely, a web-based employee payroll information system using the laravel framework which will help the admin work of Ltd Bank Perkreditan Rakyat Ingertad Bangun Utama in inputting data and processing employee salary data and the features used in the webbased employee information system using add, edit, delete and print data.

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