

Optimization The Effectiveness Of Universities Financial Statement Using Cloud Accounting

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ABSTRACT

When the development of the digital era 4.0 has explored all fields, both in education, technology and other fields. In terms of financial statements, it is felt that at this time they must follow these developments. In terms of facilitating a job and the risk is quite risky. In universities, in a financial report, one of which is the balance sheet, it is still not optimal for the leadership. The report is in the form of a balance sheet report at Raharja College. This study faces 2 (two) problems, namely the manual calculation of the balance sheet and high errors. This can hinder financial reports to the leadership every month. In preventing these problems, good and appropriate financial report management is needed. Cloud accounting is the use of the cloud as an online accounting storage. With the use of cloud accounting in the online journal.id software, income and expenditure data has been inputted properly, so that the balance sheet data is accurate and fast. There is a report menu on journal.id to get overall and accurate Balance Sheet data. There are 7 (seven) methods as problem solving used in this research. Researchers hope that the management of balance sheet financial statements can make it easier for accountants to submit reports to the leadership every month. There are 7 (seven) methods as problem solving used in this research. Researchers hope that the management of balance sheet financial statements can make it easier for accountants to submit reports to the leadership every month. There are 7 (seven) methods as problem solving used in this research. Researchers hope that the management of balance sheet financial statements can make it easier for accountants to submit reports to the leadership every month.

Keywords:

Cloud Accounting, Balance Sheet, Financial Report

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1. INTRODUCTION

Information technology today is the answer to the need for accurate and fast information by information users for short-term and long-term economic decision making. Universities, both State Universities and Private Universities, have an obligation to present accountable and transparent financial reports for stakeholders. Financial reports are a means of communicating financial information to parties outside the corporation, which are expected to be able to provide information to leaders in order to make decisions. According to [1] The financial report is very much needed by the leadership which has been analyzed and is useful as a decision-making tool for the future [2]. Annual financial reports that become a medium for institutional management to interested parties and a means of accountability for the public for the resources it manages [3]. There are components in the financial statements which include budget reports, balance sheets, cash flow statements and financial statement notes [4]

The balance sheet is a description of the financial condition of a company or institution. Useful for displaying the balance of decisions between investment and funding [5]. Which, according to Mulyono, indirect supervision only supervises by requesting periodic reports, namely balance reports and profit and loss calculations, changes in the direction and financial patterns of an institution that are beneficial to financial ratios. [6].



Figure 1. Journal Online Accounting Software



Journal Software is an online accounting software as a support for recording a financial report that can be accessed online[7]. The benefits of these developments are used to facilitate the implementation process and increase efficiency[8] Online accounting software or what can be called cloud accounting is now available which can be useful for ordinary people in managing business finances in detail with ease[9]. At this time, it is very important for accountants to position themselves and create more independent space[10].

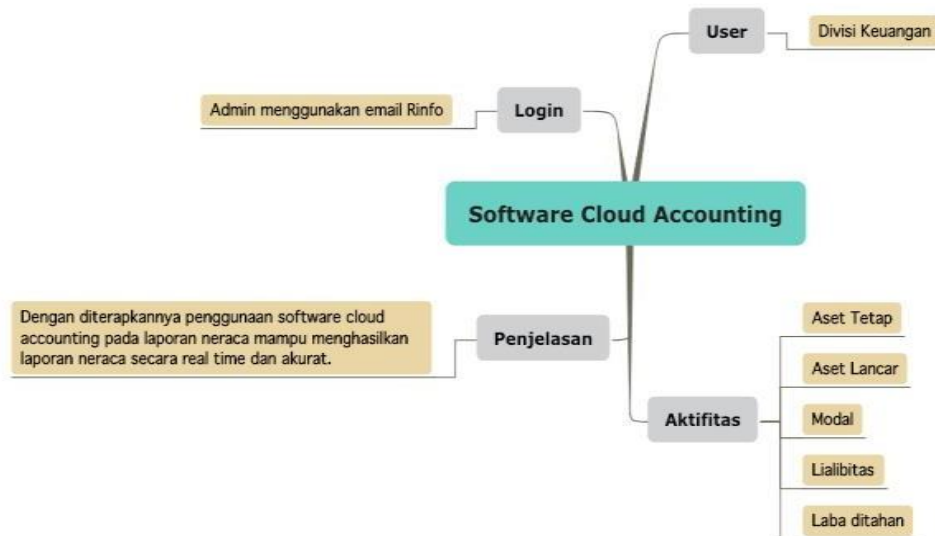


Fig 2. Mind Mapping Balance Sheet

From Figure 2.2, there are 3 (three) types of financial reports at universities, namely Income Statements, Cash Flow Statements and Balance Sheets. However, this research focuses on the Balance Sheet section. In the balance sheet, there are 5 (five) presentations in the balance sheet, namely current assets, capital, fixed assets, retained earnings and liabilities. The need for integration of various information in order to obtain accurate data[11].

The first problem is that the balance sheet presented is still conventional. By being printed using paper, it can result in scattered reports and not being archived properly.

The second problem is the balance sheet which still has to be calculated in the conventional way. This can lead to errors in the total balance of the balance sheet. Changes are needed in all respects, including in the presentation of information, from conventional methods to more modern ones so as to make it easier for readers to understand the information presented.[12].

2. RESEARCH METHOD

The literature study method is a technique of collecting data and information by examining various sources such as books, journals, scientific works and others. In this study, researchers used 6 (six) literature studies, namely:

1. Research conducted by Untung Rahardja, Qurotul Aini, and Marviola Hardini in 2018 with Online Accounting Software can make it easier for accountants to input transaction data into the system, where the transaction data can be directly imported into the system making it more efficient[13].
2. Subsequent research by In'am Fanany ZA in 2014, with a website-based accounting system capable of serving transactions by visiting or online so as to create facilities for accounting records[14].
3. Research conducted by Untung Rahardja, Eka Purnama Harahap and Dini intan, with the use of Rinfosheet as an online financial report storage media, and it is automatically stored in the cloud[15].
4. Research conducted by Ferry and Kosadi and Mandatory Ginting (2018), internet-based software has been carried out, and some finance and accounting are used even though they have used Android.[16]
5. Research conducted by Untung Rahardja, et al (2018), uses cloud-based online accounting software to facilitate the reconciliation process to produce real-time and accurate financial reports.[15].

From the 5 (five) literature reviews above, it can be concluded that many researchers have used online or cloud-based accounting. However, it can be concluded that there are no researchers who apply cloud accounting in the balance sheet process.

In this study, a system analysis method is used, namely SWOT (Strength, Weakness, Opportunities, Threats) to solve the existing problems. Strengths are strengths in the system used, namely cloud accounting, weaknesses

are weaknesses in the software, opportunities are opportunities for the system to take advantage of existing technology. And the threat to cloud accounting is in implementation.

STRENGTH	WEAKNESS
<ol style="list-style-type: none"> 1. <i>Cloud accounting</i> yang diterapkan pada Perguruan Tinggi berbasis online. 2. Data laporan terasip dengan baik dan online. 3. Perguruan Tinggi Raharja berbasis Teknologi Informasi. 4. Dapat diakses dimana saja dan kapan saja 5. Keamanan akun yang sangat baik. 	<ol style="list-style-type: none"> 1. Rekapitan laporan neraca hanya dapat diakses oleh super admin. 2. Divisi keuangan beradaptasi dengan <i>cloud accounting</i>.
OPPORTUNITIES	THREATS
<ol style="list-style-type: none"> 1. <i>Cloud accounting</i> jurnal memudahkan divisi keuangan. 3. Adanya menu laporan secara keseluruhan dalam mendapatkan informasi laporan secara real-time. 4. Efektif dan efisien. 	<ol style="list-style-type: none"> 1. Adanya Update pada <i>cloud accounting</i> jurnal.id 2. Perkembangan teknologi semakin berkembang. 3. Tidak adanya jaringan internet yang bisa mengakses jurnal.id

Figure 3. SWOT Analysis of the Balance Sheet based on Cloud Accounting

3. RESULT AND DISCUSSION

In this discussion, we will discuss the analysis of existing problems, namely the process of balance reports which are still conventional calculations and the reports obtained are still in the form of sheets of paper. The last step is the implementation by displaying the results of the online balance sheet screenshot in the cloud accounting journal.

The presentation of the financial statements of the Balance Sheet section is currently good, but it is still obtained manually or conventionally. Report management is also good enough for the leadership every month. Reports can be used by sending data through rinfo as a supporting tool [17]

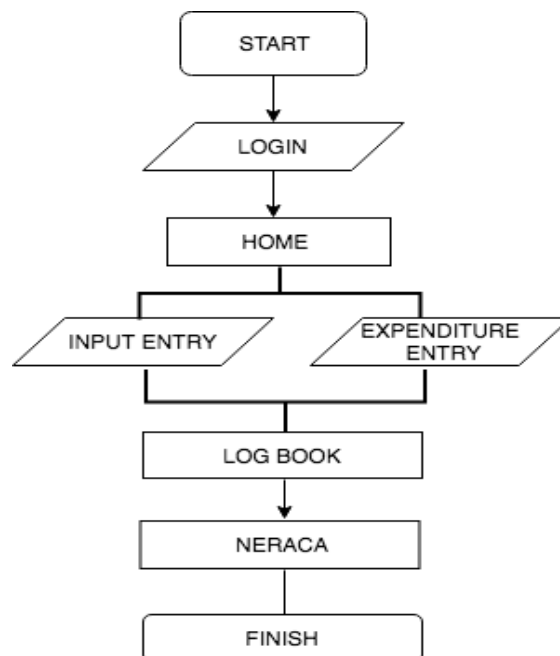


Figure 4. Balance Sheet Flow

Figure 4 is the flow of the balance sheet system that still uses conventional. Where the data comes from input data from students and expenses from universities. Then the data of the income report is recorded properly. Technology is one of the transaction media in e-commerce [18].

Neraca (dalam IDR)		06/01/2019
Aset		
Aset Lancar		
1-10001	Kas	6.800.000,00
1-10003	Bank Transfer	(110.000,00)
1-10004	Bank Mandiri	1.343.700,00
1-10100	Piutang Usaha	447.808.750,00
1-10403	Uang Muka	5.000,00
1-10500	PPh Masukan	10.000,00
1-10999	Jurnal Payment Service Escrow	5.100,00
1-11001	Koneksi	(1.000.000,00)
Total Aset Lancar		484.862.550,00
Total Aset		484.862.550,00
Liabilitas dan Modal		
Liabilitas Jangka Pendek		
2-20100	Hutang Usaha	50.000,00
Total Liabilitas		50.000,00
Modal Pemilik		
Akumulasi pendapatan komprehensif lain		0,00
Pendapatan sampai Tahun lalu		454.812.550,00
Pendapatan Periode ini		0,00
Total Modal Pemilik		454.812.550,00
Total Liabilitas dan Modal		454.862.550,00

Fig 5. Menu of Balance Sheet

The existence of a Balance Sheet which is implemented on Raharja's account in cloud Accounting to support the overall record of financial reports between income and expenses. As well as management reports have been summarized very clearly to the leadership so that finances run smoothly. Accountants can easily get these reports without having to calculate manually or conventionally.

Report Type	Description	Action
Neraca	Menampilkan apa yang anda miliki (aset), apa yang anda hutang (liabilitas), dan apa yang anda sudah investasikan pada perusahaan anda (ekuitas).	Lihat Laporan
Laporan Laba-Rugi	Menampilkan setiap tipe transaksi dan jumlah total untuk pendapatan dan pengeluaran anda.	Lihat Laporan
Laporan Laba-Rugi	(Early Release) Menampilkan setiap tipe transaksi dan jumlah total untuk pendapatan dan pengeluaran anda.	Lihat Laporan
Buku Besar	Laporan ini menampilkan semua transaksi yang telah dilakukan untuk suatu periode. Laporan ini bermanfaat jika Anda memerlukan daftar kronologis untuk semua transaksi yang telah dilakukan oleh perusahaan Anda.	Lihat Laporan
Jurnal	Daftar semua jurnal per transaksi yang terjadi dalam periode waktu. Hal ini berguna untuk melacak di mana transaksi Anda masuk ke masing-masing rekening.	Lihat Laporan
Trial Balance	Menampilkan saldo dari setiap akun, termasuk saldo awal, pergerakan, dan saldo akhir dari periode yang ditentukan.	Lihat Laporan

Fig 6. Report menu

The Report menu on cloud Accounting software provides various kinds of financial reports such as balance sheets, profit and loss, general ledgers and others. In this study, the focus is on the balance sheet report. Tab from the Balance Sheet which will generate information from the Balance Sheet in cloud accounting on the Raharja journal account. This is able to make it easier to get information on time and report management to make decisions [19].

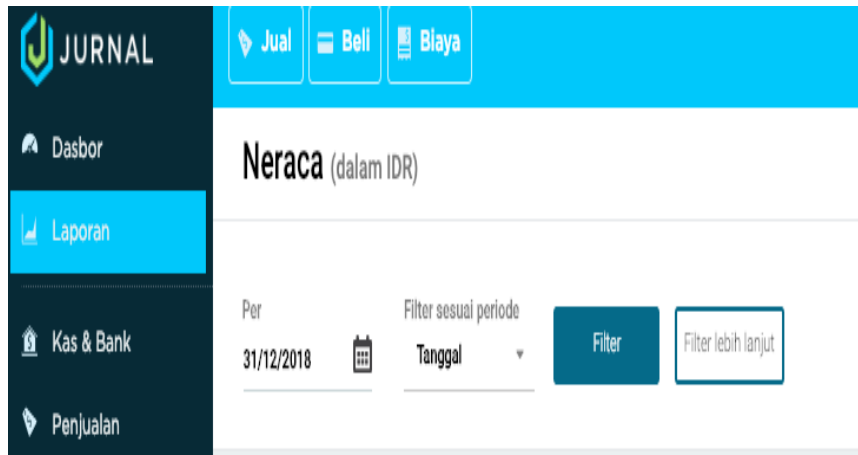


Figure 7. Setting the Time of the Balance Sheet

In the Balance Sheet report there is a time setting needed. Because the report every month must be different. Management can easily request balance sheet data at any time. For the sake of the process of delivering information that is effective, efficient and fast to the community, media is needed that can convey it in a succinct manner [25].

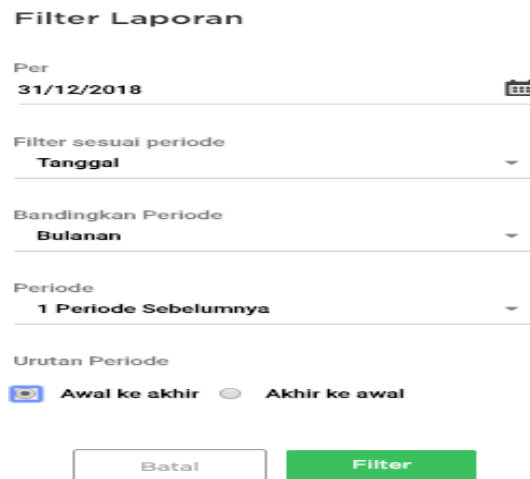


Fig 8. Balance Report Features

There are 4 (four) tabs to filter reports as desired by management. Filter by date, which can be weekly or monthly. Then additional features comparison of 1 (one) previous period with the current period. The existence of this feature makes it easy to get reports without having to printout or reprint the desired balance report[7], [20], [21].

Aset		08/01/2019
Aset Lancar		
1-10001	Kas	6.800.000,00
1-10003	Bank Transfer	(110.000,00)
1-10004	Bank Mandiri	1.343.700,00
1-10100	Piutang Usaha	447.808.750,00
1-10403	Uang Muka	5.000,00

Figure 9. Types of Balance Sheet Results

In presenting balance sheet information, management certainly wants information that is concise and easy to understand. Do not forget to also automatically calculate the results obtained from the data of income and expenditure. The quality of a management in the form of reports can also be related to the standards of the agency[22]. Balance sheet data can be viewed in pdf, excel and csv formats.

YAYASAN NIRWANA NUSANTARA (UJICOBA)
NERACA
per tanggal 29/10/2018
 (dalam IDR)



		29/10/2018
Aset		
Aset Lancar		View site information
1-10001	Kas	6.800.000,00
1-10003	Bank Transfer	(110.000,00)
1-10004	Bank Mandiri	343.700,00
1-10100	Piutang Usaha	159.398.750,00
1-10403	Uang Muka	5.000,00
1-10500	PPN Masukan	10.000,00
1-10999	Jurnal Payment Service Escrow	5.100,00
Total Aset Lancar		166.452.550,00
Total Aset		166.452.550,00
Liabilitas dan Modal		
Liabilitas Jangka Pendek		
2-20100	Hutang Usaha	50.000,00
Total Liabilitas Jangka Pendek		50.000,00
Total Liabilitas		50.000,00
Modal Pemilik		
Pendapatan sampai Tahun lalu		0,00
Pendapatan Periode ini		166.402.550,00
Total Modal Pemilik		166.402.550,00
Total Liabilitas dan Modal		166.452.550,00

Figure 10. Results of the Balance Sheet PDF Format

	A	B	C	D	E
1	Nomor Akun	Akun	29/10/2018		30/09/2018
2	1-10001	Kas	6800000		6800000
3	1-10003	Bank Transfer	-110000		-110000
4	1-10004	Bank Mandiri	343700		343700
5	1-10100	Piutang Usaha	159398750	2.20%	156013750
6	1-10403	Uang Muka	5000		5000
7	1-10500	PPN Masukan	10000		10000
8	1-10999	Jurnal Payment Service Escrow	5100		5100
9	2-20100	Hutang Usaha	50000		50000
10		Current Period Earnings	166402550	2.10%	163017550
11					

Fig 11. Results of the Balance Sheet in csv . format

Yayasan Nirwana Nusantara (UjiCoba)					
Neraca					
30/09/2018 - 29/10/2018					
(dalam IDR)					
Tanggal		29/10/2018		30/09/2018	
Aset					
Aset Lancar					
1-10001	Kas	6,800,000.00		6,800,000.00	
1-10003	Bank Transfer	-110,000.00		-110,000.00	
1-10004	Bank Mandiri	343,700.00		343,700.00	
1-10100	Piutang Usaha	159,398,750.00	2.2%	156,013,750.00	
1-10403	Uang Muka	5,000.00		5,000.00	
1-10500	PPN Masukan	10,000.00		10,000.00	
1-10999	Jurnal Payment Service Escrow	5,100.00		5,100.00	
Total Aset Lancar		166,452,550.00	2.1%	163,067,550.00	
Aset Tetap					
Depresiasi & Amortisasi					
Lain-lain					
Total Aset		166,452,550.00	2.1%	163,067,550.00	
Liabilitas dan Modal					
Liabilitas Jangka Pendek					
2-20100	Hutang Usaha	50,000.00		50,000.00	
Liabilitas Jangka Panjang					
Total Liabilitas		50,000.00		50,000.00	
Modal Pemilik					
Pendapatan sampai Tahun lalu		0.00		0.00	
Pendapatan Periode ini		166,402,550.00	2.1%	163,017,550.00	
Total Modal Pemilik		166,402,550.00	2.1%	163,017,550.00	
Total Liabilitas dan Modal		166,452,550.00	2.1%	163,067,550.00	

Figure 12. Balance Sheet Report Results excel format

From the implementation results above, the Balance Sheet financial statements managed by universities using cloud accounting are able to make it easier for accountants to obtain reports on management. As well as financial management in higher education institutions is very neat and timely. In addition, accountants can save time in conventional calculations, and it is no longer done because of cloud accounting. And information needs are needed according to management expectations in order to make decisions from existing problems[21].

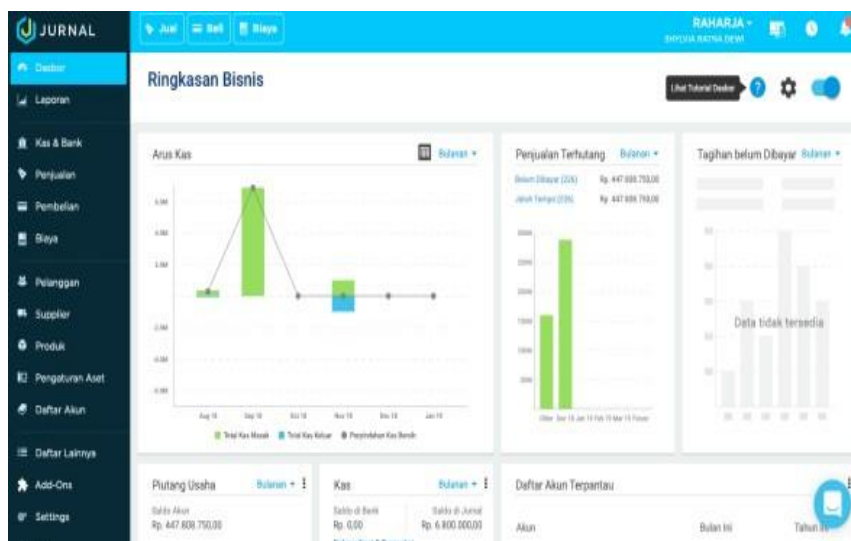


Fig 13. Dashboard Menu

In figure 13 using cloud accounting journal.id there is a dashboard menu that is useful as overall but concise information. With the Dashboard on the Web, cloud accounting software is felt to be able to monitor or monitor user performance on the online accounting site[23]–[25].

4. CONCLUSION

The use of increasingly sophisticated information technology at this time should be applied to universities. Included in the financial statements section managed by the finance division. One of the financial reports is the balance sheet. Where there are 2 (two) problems that have been described and their solutions using the SWOT analysis method. Then produce also 2 (two) conclusions, namely:

1. The existence of a balance sheet report based on Cloud Accounting is able to make it easier for the financial

division to get reports in real-time and effectively and efficiently.

2. The finance division does not need to calculate the balance sheet conventionally or manually, so that it can cause errors or miscalculations in the total summation. It is hoped that the use of cloud accounting systems in financial reports in the balance sheet section of universities can be useful for other affiliates in finance.

7. REFERENCES

- [1] Nurkholik and R. Amaliyah, "Pengaruh Kompleksitas Operasi, Profitabilitas, Reputasi KapDan Ukuran Perusahaan Terhadap Audit Report Lag(Pada Perusahaan Manufaktur Yang Terdaftar Di Bei Tahun 2015 – 2018)," *J. Ekon. dan Bisnis*, vol. 8, no. 1, pp. 11–27, 2021.
- [2] Anhara, "Analisis Faktor-Faktor Yang Mempengaruhi Manajemen Laba (Studi Pada Perusahaan Perbankan Syariahdi Indonesia)," *J. TEKUN*, vol. VI, no. 01, pp. 355–363, 2015.
- [3] Ikatan Akuntan Indonesia, *Standar Pedoman Akuntansi Keuangan*. Jakarta: IAI, 2017.
- [4] T. M. Tuanakotta, *Audit Berbasis ISA*. Jakarta: Salemba 4, 2014.
- [5] I. Wardana and G. Sudiartha, "Pengaruh Likuiditas, Ukuran Perusahaan, Risiko Bisnis Dan Usia Perusahaan Terhadap Struktur Modal Pada Industri Pariwisata Di Bursa Efek Indonesia Periode 2010-2013," *E-Jurnal Manaj. Univ. Udayana*, vol. 4, no. 6, pp. 1701–1721, 2015.
- [6] Andini, "Pengaruh Fungsi Auit Internal Terhadap Fee Auditor Eksternal pada perusahaan non keuangan yang terdaftar di BEI," *Univ. Muhammadiyah*, vol. 0, no. 0, pp. 748–757, 2020.
- [7] B. S. Kallamu, N. A. Mohd Saat, N. Ashikin, and M. Saat, "Asian Review of Accounting Article information :," *Asian Rev. Account. Asian Rev. Account. Asian Rev. Account.*, vol. 23, no. 3, pp. 232–255, 2015.
- [8] S. R. Puspita, "Kebijakan Perpajakan Atas Transaksi E-commerce Taxation Policy On E-commerce Transactions," *AKUNTABEL 15 (1), 2018 67-72* <http://journal.feb.unmul.ac.id/index.php/AKUNTABEL> *Kebijak.*, vol. 15, no. 1, pp. 67–72, 2018.
- [9] N. Marina, N. Ramadhani, and M. R. Habibi, "Pengaruh Ukuran Kap, Ukuran Perusahaan Dan Umur Perusahaan Terhadap Audit Report Lag Pada Perusahaan Manufaktur Yang Terdaftar Di Bei Tahun 2016-2018," *JAKPI - J. Akuntansi, Keuang. Perpajak. Indones.*, vol. 9, no. 1, p. 1, 2021, doi: 10.24114/jakpi.v9i1.25730.
- [10] A. Amin, "Independensi Komite Audit , Kualitas Audit dan Kualitas Laba : Bukti Empiris Perusahaan dengan Kepemilikan Terkonsentras i," *J. Akunt. dan Keuang.*, vol. 18, no. 1, pp. 1–14, 2016, doi: 10.9744/jak.18.1.1-14.
- [11] B. Chrisdianto, "Peran Komite Audit Dalam Good Corporate Governance," *J. Akunt. Aktual*, vol. 2, no. 1, pp. 1–8, 2013.
- [12] A. L. Fiatmoko and I. Anisykurlillah, "Accounting Analysis Journal FAKTOR-FAKTOR YANG BERPENGARUH TERHADAP AUDIT DELAY PADA PERUSAHAAN PERBANKAN," *Jur. Akuntansi, Fak. Ekon. Univ. Negeri Semarang*, vol. 4, no. 1, pp. 1–10, 2015.
- [13] U. Rahardja, E. P. Harahap, and D. I. Pratiwi, "Pemanfaatan RinfoSheet Sebagai Media Informasi Laporan Penjualan Barang pada Raharja Internet Cafe," *J. Ilm. Teknol. Inf. Asia*, vol. 12, no. 1, p. 65, 2018, doi: 10.32815/jitika.v12i1.245.
- [14] Q. Aini, U. Rahardja, A. H. Arribathi, and N. P. L. Santoso, "Penerapan Cloud Accounting Dalam Menunjang," *J. Comput. Eng. Syst. Sci.*, vol. 4, no. 1, pp. 60–64, 2019.
- [15] A. Khoirunisa, "Implementasi Business Intelligence Menggunakan Highchart pada Sistem Penilaian Absensi berbasis YII Framework," *CSRID (Computer Sci. Res. Its Dev. Journal)*, vol. 9, no. 2, p. 96, 2018, doi: 10.22303/csrid.9.2.2017.96-105.
- [16] U. Rahardja, Q. Aini, and M. Hardini, "Penerapan Software Akuntansi Online Sebagai Penunjang Pencatatan Laporan Keuangan," *Sisfotenika*, vol. 8, no. 2, p. 176, 2018, doi: 10.30700/jst.v8i2.408.
- [17] K. I. K. Dewi, I. Subekti, and E. Saraswati, "The Determinants of Delay in Publication of Financial Statement," *Int. J. Multicult. Multireligious Underst.*, vol. 6, no. 1, p. 9, 2019, doi: 10.18415/ijmmu.v6i1.470.
- [18] M. N. Rizqi and S. U. Ady, "E-Money As A Payment System Tool In Flazz Bca Card Users In Surabaya," *Ekspektra J. Bisnis dan Manaj.*, vol. 3, no. 1, p. 69, 2019, doi: 10.25139/ekt.v3i1.1519.
- [19] J. Jasman and M. N. Amin, "Internal audit role on information asymmetry and real earnings management," *J. Akunt. Audit. Indones.*, vol. 12, no. 2, pp. 95–104, 2017, doi: 10.20885/jaai.vol21.iss2.art2.
- [20] S. Elviani, "Faktor-Faktor Berpengaruh Bagi Ketepatan Waktu Pelaporan Keuangan Perusahaan Manufaktur Di Bursa Efek Indonesia," *J. Ris. Akunt. Multiparadigma*, vol. 4, no. 2339–0492, pp. 1–10, 2017.
- [21] I. Sarwoko and S. Agoes, "An Empirical Analysis of Auditor's Industry Specialization, Auditor's Independence and Audit Procedures on Audit Quality: Evidence from Indonesia," *Procedia - Soc. Behav.*

- Sci.*, vol. 164, no. August, pp. 271–281, 2014, doi: 10.1016/j.sbspro.2014.11.077.
- [22] Imelda Siahaan;, Adri Satriawan Surya;, and Arumega Zarefar, “Pengaruh Opini Audit, Pergantian Auditor, Kesulitan Keuangan, dan Efektivitas Komite Audit Terhadap Audit Delay,” *J. Politek. Caltex Riau*, vol. 12, no. 2, pp. 1135–144, 2019.
- [23] N. M. Shinta Widhiasari, “Pengaruh Umur Perusahaan, Ukuran Perusahaan, Reputasi Auditor, Dan Pergantian Auditor Terhadap Audit Report Lag,” *E-Jurnal Akunt.*, vol. 15, no. 1, pp. 200–228, 2016.
- [24] S. I. Kusuma, S. B. Pambudi, and A. W. Suprayitno, “Standar Biaya Dan Kinerja: Pengaruh SbkK Terhadap Efisiensi Anggaran K/L,” *J. Anggar. dan Keuang. Negara Indones.*, vol. 1, no. 1, p. 20, 2019, doi: 10.33827/akurasi2019.vol1.iss1.art45.
- [25] H. Herawati, “Pentingnya Laporan Keuangan Untuk Menilai Kinerja Keuangan Perusahaan,” *Pentingnya Lap. Keuang. Untuk Menilai Kinerja Keuang. Perusah.*, vol. 2, no. 1, pp. 16–25, 2019, [Online]. Available: https://scholar.google.com/citations?view_op=view_citation&hl=en&user=KMS1Pv8AAAAAJ&citation_for_view=KMS1Pv8AAAAAJ:IjCSPb-OGe4C