

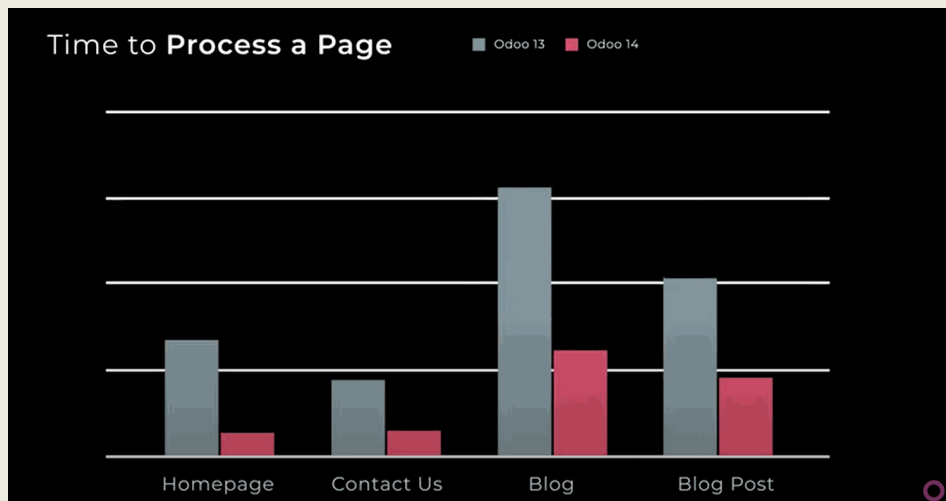
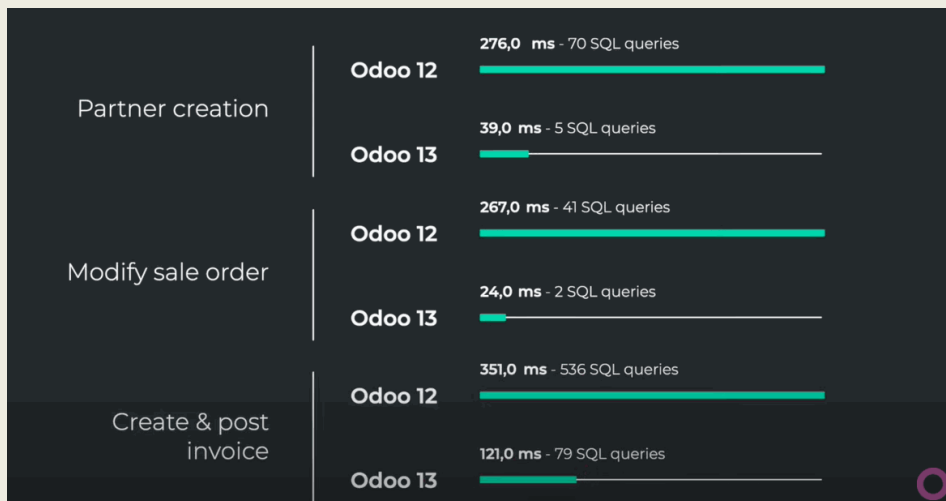
PoC v12 & v14 for PT Pesonna Optima Jasa

Eric Budiana



Faster, slicker, more user-friendly system

In every new version, Odoo improves its speed, both in front-end & back-end. On average, the back-end of Odoo 13 is almost 5x faster than the previous versions!



V12 x V14

Faster load times: In Odoo 14, the ORM (Object-Relational Mapping) has been optimized to perform faster by introducing a new binary field type. This new binary field is used to store and retrieve large binary data, such as images or documents. The binary field is stored in a separate table and is loaded on-demand, which reduces the memory usage and improves the performance when working with large datasets.

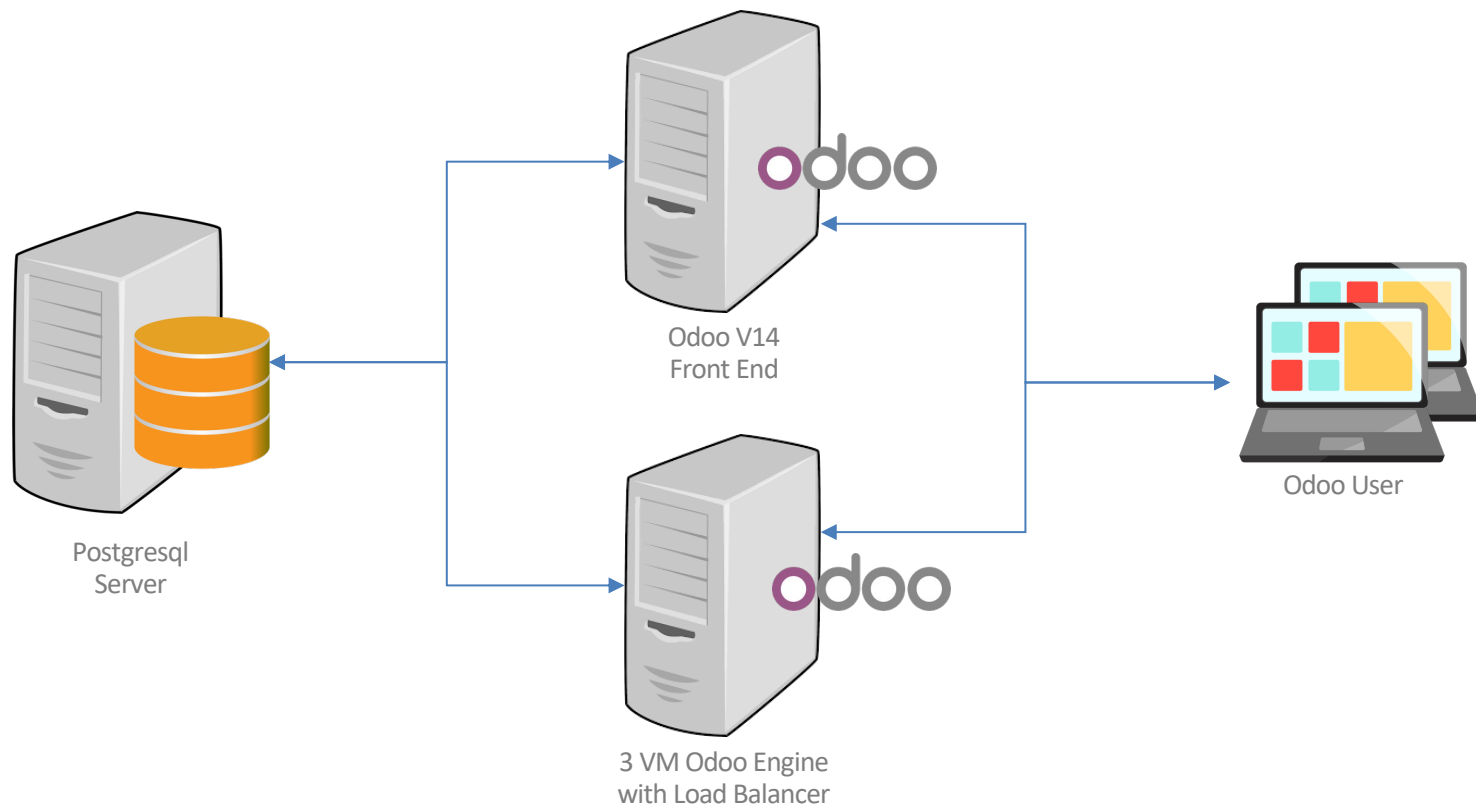
Improved indexing: Odoo 14 uses a new indexing system that improves the speed of database queries. The new indexing system is based on PostgreSQL's built-in indexing capabilities, which allows for faster and more accurate data retrieval. Additionally, it uses indexing on computed fields, which can improve the performance of complex queries. Also, the new indexing system indexes fields that are used in the ORM domain, which improves the performance of the search and filter operations.

Better caching: Odoo 14 has been optimized to use less memory, which improves the performance of the system as a whole. This is achieved through the use of more efficient caching mechanisms, such as the use of the new `lru_cache` decorator, which reduces the number of database queries, and the caching of computed fields, which improves the performance of complex queries.

Improved Multi-Company: Odoo 14 has been optimized to handle multiple companies more efficiently and faster. This is achieved by improving the performance of the ORM multi-company rules, which are used to filter data based on the current company and making them more consistent. The ORM multi-company rules are applied on-demand, which reduces the memory usage and improves the performance.

Improved security: Odoo 14 has been improved in terms of security, it has new modules for security management, improved the access rights management, and it introduced a new security system based on Access Control Lists (ACLs). This improves the security and performance of the system by reducing the number of database queries and applying the security rules on-demand.

The Architecture



Testing Summary

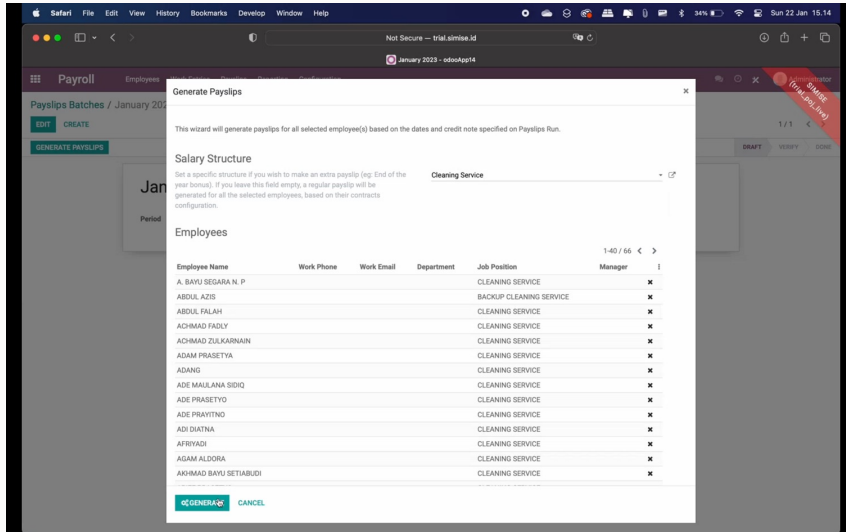
Odoo V12

- Compute Sheet Payslip 66 Employees
06:50:31

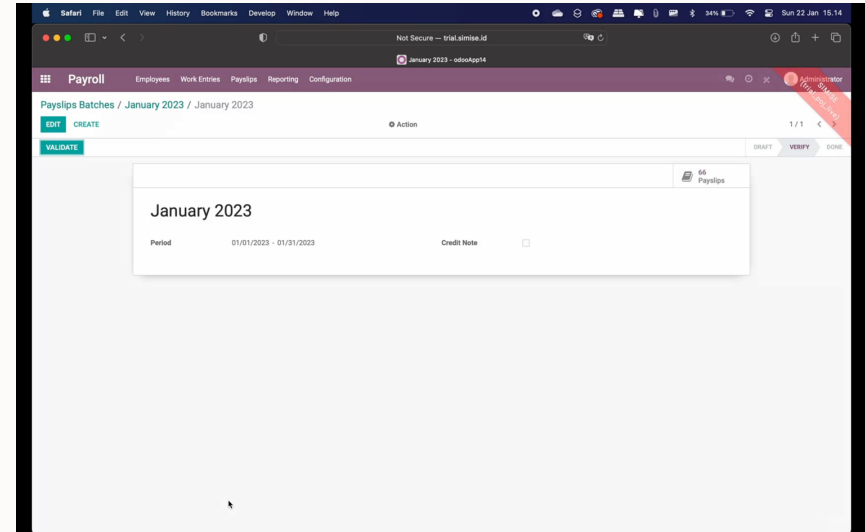
Odoo V14

- Generate Batch Payslip 66 Employees
00:08:70
- Import Timesheet Attendance 66 Employees
00:02:67
- Compute Sheet 66 Employees
00:08:31

Generate Batch Payslip



01:40



01:48

Duration
00:08:70

Source Video : https://drive.google.com/file/d/1D7VSE8xE6jwPb_Hdn4MMIZl0zb6RoXGE/view?usp=share_link

Compute Sheet

Safari Not Secure - trial.simsite.id

Payroll Employees Work Entries Payslips Reporting Configuration

Payslips Batches / January 2023 / January 2023 / Payslips
/ Salary Slip - A. BAYU SEGARA N. P - January 2023

EDIT CREATE Print Action 1/66

CONFIRM COMPUTE SHEET CANCEL PAYSLIP RECOMPUTE WORKED DAYS PRINT DRAFT WAITING DONE

A. BAYU SEGARA N. P

Period 01/01/2023 - 01/31/2023 Contract 046/PKWT-POLAKPP9/PGD/DR/IV/2022
Reference SLIP/001 Structure Cleaning Service
Payslip Name Salary Slip - A. BAYU SEGARA N. P - January 2023

Worked Days & Inputs Salary Computation Accounting Information

Name	Code	Category	Quantity	Rate (%)	Amount	Total
Basic Salary	BASIC	Basic	1.00	100.0000	4,641,854.00	4,641,854.00
UMK	UMK	Pre Basic	1.00	100.0000	4,641,854.00	4,641,854.00
Tunjangan Jabatan	TJB	Pre Basic	1.00	100.0000	0.00	0.00
Gross	GROSS	Gross	1.00	100.0000	4,641,854.00	4,641,854.00
Tunjangan Pensiunan - Fungsional Cleaning Service #	TPFS	Pre Basic	1.00	100.0000	10,000.00	10,000.00
TOTAL UPAH TETAP - UMK+TunJab+Pensiunan	T_UT	Basic	1.00	100.0000	4,651,854.00	4,651,854.00
Net Salary			1.00	100.0000	9,293,708.00	9,293,708.00
Lembur Hari Kerja Jam Ke 1 - (TAD) TUT #6			0.00	100.0000	0.00	0.00
Lembur Hari Kerja Jam Ke 2 - (TAD) TUT #6			0.00	100.0000	0.00	0.00
Lembur Libur Nasional Jam Ke 1 - (TAD) TUT #6	TLJN1	Allowance	1.00	100.0000	0.00	0.00
Lembur Libur Nasional Jam Ke 2 - (TAD) TUT #6	TLJN2	Allowance	1.00	100.0000	0.00	0.00
Lembur Libur Nasional Jam Ke 3 - (TAD) TUT #6	TLJN3	Allowance	1.00	100.0000	0.00	0.00
Lembur Hari Libur Jam Ke 1 - (TAD) TUT #6	TLJL1	Allowance	1.00	100.0000	0.00	0.00
Lembur Hari Libur Jam Ke 2 - (TAD) TUT #6	TLJL2	Allowance	1.00	100.0000	0.00	0.00

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Payroll Employees Work Entries Payslips Reporting Configuration

Payslips Batches / January 2023 / January 2023

EDIT CREATE Action 1/1

VALIDATE DRAFT VERIFY DONE

66 Payslips

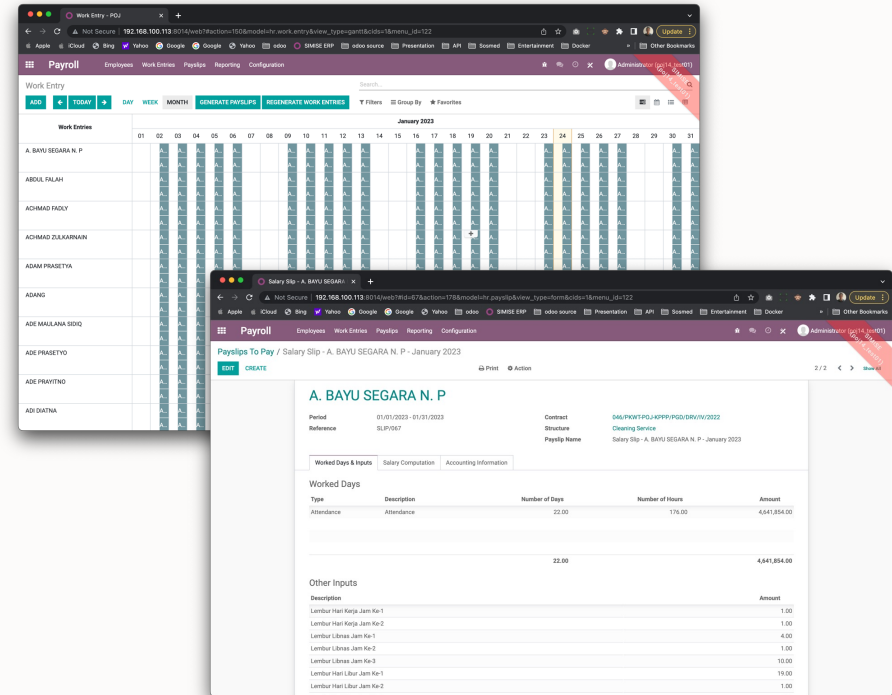
January 2023

Period 01/01/2023 - 01/31/2023 Credit Note ☐

Duration
00:08:31

Suggestion

- Maksimalkan penggunaan Work Entry
- Optimise Structure Salary Rules
- Recheck Python Code Rules
- Maksimalkan odoo configuration file
- Perbaiki custom module yang terdapat loop dalam proses dan code yang kurang sesuai



The background is a complex abstract composition. It features large, flowing organic shapes in shades of blue and orange. A prominent dark brown area with a fine, repeating hatched pattern occupies the right and central portions. In the bottom left, there are shapes with a wood-grain texture in orange and brown. A small red shape is visible on the right side. The overall style is modern and artistic.

Thank you