















## E. Evaluation and Testing

Stress testing is carried out to ensure that the system design created can be implemented properly. The results of the stress testing test will be carried out with three stages of testing; namely, if the first stress testing, 100 requests will be given to users (-n) with a total of 50 users accessing the application (-c) simultaneously, then the second stress testing 200 requests will be given to users (-n) with a total of 100 users can access the application (-c) simultaneously and the third stress testing 300 requests will be given to users (-n) with a total of 200 users can access the application (-c) simultaneously. The results explain that if there are 100 requests given by 50 users simultaneously, the application will respond in 12.06 seconds. This shows that the smart SMES application can handle 50 requests at the same time. Conversely, if there are 200 requests given by 100 users simultaneously, the application will provide a response duration of 21.88 seconds. This shows that the smart SMES application can handle 200 requests by 100 users who access it simultaneously, even though it is slow.

## IV. CONCLUSION

This research concludes that the design of the automatic reporting feature is one of the solutions to overcome problems in making financial reports on SMEs, which are still done manually. Odoo is an open-source ERP software, so it fits the needs of SMEs. The system is designed using the Odoo application accounting module and refers to the Service Oriented Architecture methodology. The design of this system enables the business process owned by SMEs to be integrated, and financial statements can be made automatically, thereby reducing inaccurate calculation errors. This will improve accuracy in planning purchasing strategies, managing costs, and utilizing resources. The Service-Oriented Architecture method in this study has the advantage of producing blueprint documents that will be the best practice or standard for making financial statements.

Future research can explore the use of Odoo and other open-source ERP systems for SMEs in the feasibility and cost-effectiveness of Odoo for SMEs: Research could be conducted to assess the feasibility and cost-effectiveness of implementing Odoo and other open-source ERP systems for SMEs, compared to proprietary alternatives. This could include evaluating the total cost of ownership, as well as the return on investment and other financial benefits.

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