

# Research Proposal

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# I Introduction/Background and Rationale (choose any)

## II Literature Review

In [1], authors found out that integration of DevOps leads to security improvement, deployment predictability. Moreover, in [2], authors studied success factors by categories and found out that DevOps integration also improves performance engineering, build and test automation. In comparison, authors of this article also mentioned that DevOps integration helps companies to enhance software security and sustainability [3][18]. To conclude, DevOps integration is a crucial part of software development process, which helps to improve software security, sustainability, and performance.

## III Methods/Methodology/Procedure/Research Design (choose any)

## IV Anticipated Results

## V Discussion

# References

- [1] R. Grande, A. Vizcaíno, and F. O. García, “Is it worth adopting devops practices in global software engineering? possible challenges and benefits,” *Computer Standards Interfaces*, vol. 87, Jan. 2024, Art. no. 103767. DOI: [10.1016/j.csi.2023.103767](https://doi.org/10.1016/j.csi.2023.103767). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S092054892300048X>, Accessed: 29 Mar., 2024.
- [2] N. Azad and S. Hyrynsalmi, “Devops critical success factors — a systematic literature review,” *Information and Software Technology*, vol. 157, May 2023, Art. no. 107150. DOI: [10.1016/j.infsof.2023.107150](https://doi.org/10.1016/j.infsof.2023.107150). [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0950584923000046>, Accessed: 30 Mar., 2024.
- [3] O. H. Plant, J. van Hillegersberg, and A. Aldea, “Rethinking it governance: Designing a framework for mitigating risk and fostering internal control in a devops environment,” *International Journal of Accounting Information Systems*, vol. 45, p. 100 560, 2022, ISSN: 1467-0895. DOI: <https://doi.org/10.1016/j.accinf.2022.100560>. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S1467089522000124>.