Tertiary Literature Review of DevOps Metrics and Their Connection to Business Outcomes

1. Purpose of the Study

This study is a tertiary literature review (overview of reviews) that consolidates findings from existing secondary studies, including systematic reviews, mapping studies, and survey papers on DevOps metrics and how they relate to business outcomes. This study follows the structure of an umbrella review and I plan to synthesize findings from existing review studies rather than primary empirical research.

2. Research Questions

RQ1: *What DevOps-related metrics are reported in existing secondary studies (systematic reviews, mapping studies, surveys, or literature reviews)?*

RQ2: *How do these secondary studies describe the relationship between DevOps metrics and business or organizational outcomes?*

RQ3: *What research gaps and future directions are identified across existing secondary studies on DevOps metrics*

3. Inclusion & Exclusion

Inclusion

A study is considered if it:

- Is a secondary study, such as:
    - Systematic Literature Review (SLR)
    - Systematic Mapping Study
    - Scoping Review
- Focuses on DevOps, or software delivery practices
- Reports metrics, measures, or KPIs
- Is peer-reviewed
- Between 2015-2025
- Written in English

Exclusion

- Primary empirical studies
- Books, theses, magazines, blog posts
- Secondary studies not reporting any metrics
- Non-English papers

4. Search Query and Database

I have decided to focus on 3 database based on the results I have gotten from the generated search query.

("DevOps" OR "Continuous Delivery") AND ("business value" OR "business outcome") AND ("metric" OR "KPI") AND ("literature review" OR "systematic literature review" OR "mapping study")

Search Results:

1. Science Direct - 82
2. ACM – 101
3. IEEE – 80
4. Springer – 28