**Literature Review and Research Proposal Planning**

**Topic:** Use of Information Systems (IS) to Transform Small Businesses in Indonesia  
**Module:** Research Methods in Computing  
**Student:** Fiqki Azizah

**1. Literature Review Planning**

**Chosen Topic**

I have selected the topic *“Use of Information Systems (IS) to Transform Small Businesses in a Country of Choice”*, with **Indonesia** as my focus. This area is highly relevant to emerging digital economies and aligns with my interest in how information systems drive SME competitiveness and sustainability.

**Rationale**

Small and Medium Enterprises (SMEs) form the backbone of Indonesia’s economy, yet many remain digitally underdeveloped. Despite government-led digitalisation programs such as *UMKM Go Digital*, most SMEs face persistent challenges related to infrastructure, digital literacy, and cost. My review will explore how Information Systems adoption can enable operational efficiency, market access, and long-term transformation.

**Preliminary Research Objectives**

1. To evaluate existing literature on IS adoption models and frameworks for SMEs.
2. To identify regional, technological, and cultural barriers to IS adoption in Indonesia.
3. To analyse the relationship between IS integration and SME transformation outcomes (efficiency, innovation, growth).

**Key Academic Sources**

* Ardiansah et al. (2024) – Quantitative study on IS adoption in Central Java.
* Wiweko & Anggara (2025) – Review on digital platform ecosystems and SME participation.
* Tambunan & Busnetti (2024) – Survey on national SME digital readiness.
* Ghobakhloo & Iranmanesh (2021) – IS adoption and competitiveness in Industry 4.0.

**2. Research Proposal Planning**

**Proposal Focus**

The research proposal will build upon insights from my literature review, aiming to investigate how Information Systems adoption transforms SMEs across diverse Indonesian regions.

**Proposed Research Questions**

1. What factors influence the adoption of IS among Indonesian SMEs?
2. How do SMEs integrate IS into their business processes?
3. In what ways does IS adoption contribute to long-term SME transformation and performance?

**Preliminary Methodology**

* **Approach:** Mixed methods (survey + interviews).
* **Data Collection:**
  + Quantitative: Online survey of SMEs from various provinces (urban and rural).
  + Qualitative: Semi-structured interviews with SME owners and policymakers.
* **Analysis:** Descriptive statistics and regression (SPSS) + thematic analysis (NVivo).

**Ethical Considerations**

All participants will provide informed consent. Data will be anonymised and stored securely according to institutional ethical guidelines.

**3. Reflection**

Working on this topic has already highlighted how digital transformation is not purely a technical challenge but also a social and economic process. My preliminary review shows that while Indonesia has made strong policy commitments, implementation remains fragmented and uneven across regions. Through my research, I aim to contribute context-specific insights that could inform inclusive and sustainable digitalisation strategies for SMEs.

This GitHub repository will serve as an evolving record of my research development—from initial topic formulation through literature analysis, research design, and final presentation.

**References**

* Ardiansah, A., et al. (2024) *Information Systems Adoption and Performance of SMEs in Central Java.*
* Wiweko, D. & Anggara, P. (2025) *Digital Platform Ecosystems and SME Participation in Indonesia.*
* Tambunan, T. & Busnetti, A. (2024) *National SME Digital Readiness and the Impact of Infrastructure.*
* Ghobakhloo, M. & Iranmanesh, M. (2021) *Adoption of Information Systems and Competitiveness in Industry 4.0.*