Research Proposal Review

1. Which of the methods described in this week's reading would you think would suit your purpose?

Mixed Methods Approach would be most appropriate. It allows a combination of qualitative insights (e.g. industry needs, architectural challenges) and quantitative validation (e.g. performance benchmarks, modularity improvements).

2. Which data collection methods would you consider using?

- **Document analysis** of existing microservices implementations in the construction domain.
- **Semi-structured interviews** with software architects or developers in construction-related tech.
- Case studies of current or past projects in the construction industry.
- Surveys targeting IT professionals in the construction domain to gather broader input.

3. Which required skills will you need to have or develop for the chosen project?

- Software architecture and design skills, especially in microservices.
- **Qualitative research techniques**, such as interview transcription and thematic analysis.
- **Quantitative analysis skills**, such as using benchmarking tools or evaluating software performance.
- Knowledge of construction industry workflows, to contextualize the technical design.
- Research and academic writing skills, to structure and present findings effectively.