

## Master Thesis Defense

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### ABSTRACT

Providing developers with proper tools is of ever increasing importance as software integrates itself further into all aspects of our lives. Aside from conventional hardware and software tools, architectural and design patterns have been identified over the years as a means to communicate knowledge of known problems and their solutions. In this thesis, we present several refinements and additions to these patterns, building primarily on Martin Fowler's /Patterns of Enterprise Application Architecture/ (2003). We present a practical implementation approach to using these patterns and discuss a framework that we have developed to aid practitioners in following this methodology. We also incorporate several of Martin Fowler's existing patterns into an iterative design example to better demonstrate progressively improving combinations of their use in existing systems.