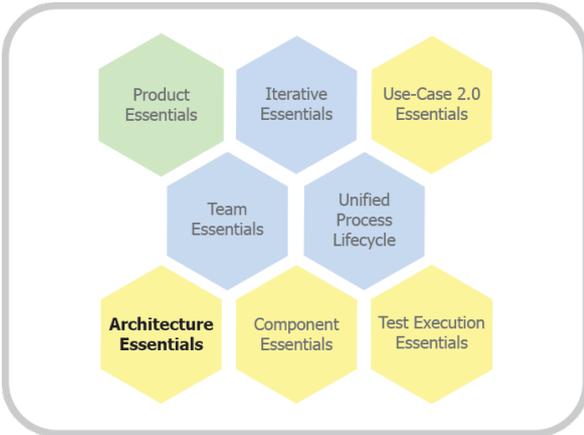


Architecture Essentials

Part of the IJI Essential Unified Process Practice Pack



The Essential Unified Process (EssUP) focuses on the essentials to provide a pre-built assembly of eight easy-to-use practices that can be mixed and matched and used in different circumstances – all of them compatible with agile values and thinking. Use-case driven, iterative, component-based and architecturally-centric the practices provide an extensible framework for the addition of further practices.

Practice Overview



Use this practice to address the technical risks facing the project and establish an appropriate architecture.

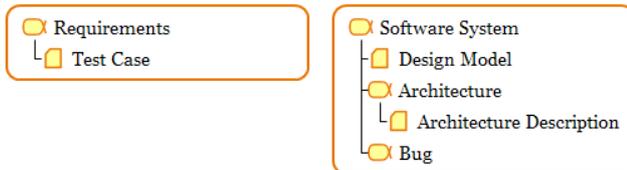
This practice allows teams to:

- Establish a firm foundation for the incremental development of the solution.
- Effectively address the technical risks facing the project.
- Share the major decisions about the structure and organization of the software system.
- Verify that the software system exhibits the key characteristics expected by the customer.
- Objectively prove that the selected approach is fit for purpose.

Things to Work With

This practice involves the production of a number of implementation and test related elements:

Solution



- The architecture is documented by preparing an architecture description, a set of architectural test cases, and architectural views of the design model.
- The architecture is implemented initially by building and testing a minimal, 'skinny' version of the software system. The implementation of the architecture is then continuously evolved as a part of the software system.

Creating **winning** teams.



Key Competencies



This practice requires skills to shape systems, develop architectural prototypes, test the architecture, involve customers and coach the team. The competencies shown in the image on the left are required to ensure success with this practice.

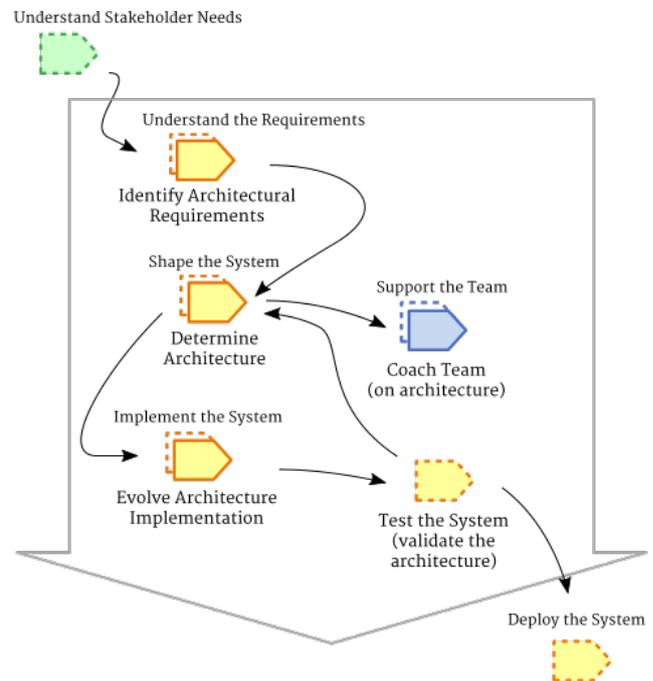
Things to Do

The practice starts by identifying and clarifying those requirements that are of architectural significance. This establishes the goals of the architecture.

The practice then determines the architecture to be implemented and evolves the architecture to produce a 'skinny system' that meets the architectural requirements. The team is coached in the use of the architecture to ensure that all software produced benefits from the foundation it provides.

The architecture is continually evolved by refactoring and evolving the architectural implementation in response to architectural validation results and emerging requirements. All builds of the software system are subjected to architectural tests to ensure the continued validity of the architectural implementation.

The Architecture Essentials practice relies on activities in the Test the System activity space for the purpose of validating the architecture through specific testing activities.



Creating winning teams.