

TRINITY INTERNATIONAL COLLEGE
Dillibazar Height, Kathmandu
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Lab Assignment 1

Subject: Software Engineering

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Agile Software Process and Its Experience

Agile Software Process is not a single technique but a total technology based on a coherent concept. The ASP does not simply mean rapid application development. Rather, it emphasizes rapid and flexible adaptation to changes of the process, product and environment. The central theme of the review revolves around the imperative for continuous improvement, particularly in response to the dynamic nature of software development requirements. At the heart of the ASP system, the concept of the ASP model is rather different from conventional process models. We characterize the ASP model as follows. (1) Incremental and Evolutionary Process, (2) Modular and Lean Process, (3) Time-Based Process.

From macro-scope point of view, in the objective oriented development the software process is incremental or spiral in the sense that functions are divided into, say, sub-systems or a group of functions and 0 incrementally developed in a series of releases. Within an increment, say, release or version, a micro lifecycle of the design and implementation is iterated until the sub-systems come to an acceptable level of functionality. Software development organizations will be more and more distributed and global due to the globalization of business. The ASP assumes global distributed development where even a single person in a remote place can participate. Therefore, the ASP does not imply any specific physical office configuration but is a virtual software factory over the Internet.

The ASP is people-centered in the sense that people are not isolated elements in a large organization separated by stages but are contributors of organized into small teams. Acknowledging the growing significance of time-to-market in product development, the review commends ASP for its contributions, including a new time-based process model and various architectural enhancements. Design principles of ASP System involves design principles like public private processing, modular processing, concurrent and cycle enaction with fixed cycle time, major and minor enhancements, alternative release cycle, fixed processing speed and workload etc. Process design deals with the tasks including the definition and improvement of software processes, and controlling the execution.

An integrated software engineering environment is indispensable to implement and operate the ASP system. The environment has to provide a balanced support for process and product management. Its multi-faceted approach provides a holistic understanding of ASP's evolution, contributions, and transformative impact, positioning it as a significant player in the ever-evolving landscape of software development practices.

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